

JHotDraw 7.0.6

Long Parameter List

Sr. No	Class Name	Method Name	No. of Parameters	File Path (Location)
1	Bezier	fitCubic	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\Bezier.java
2	DoubleStroke	DoubleStroke	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\DoubleStroke.java
3	Geom	intersect	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\Geom.java
4	Geom	intersect	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\Geom.java
5	Geom	lineContainsPoint	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\Geom.java
6	JSheet	showInputSheet	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\JSheet.java
7	JSheet	showOptionSheet	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\JSheet.java
8	Node	Node	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\BezierPath.java
9	TextAreaFigure	drawParagraph	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextAreaFigure.java
10	ToolBarButtonFactory	addColorButtonTo	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ToolBarButtonFactory.java

11	XMLValidation Exception	XMLValidationExceptio n	7	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLValidationException.java
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Long Method

Sr. No	Class Name	Method Name	LOC	File Path (Location)
1	DoubleStroke	Protected void traceStroke	122	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\DoubleStroke.java
2	StdXMLParser	Protected void processElement	140	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\StdXMLParser.java

Large Class

Sr. No	Class Name	LOC	File Path (Location)
1	XMLElement	1670	\\JHotDraw 7.0.6\\src\\nanoxml\\XMLElement.java

Lazy Class

Sr. No	Class Name	LOC	File Path (Location)
1	AboutAction	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\AboutAction.java
2	AbstractFigureListener	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractFigureListener.java
3	AbstractLayouter	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractLayouter.java

4	AbstractLocator	4	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractLocator.java
5	ApplyAttributesAction	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ApplyAttributesAction.java
6	ArrangeAction	20	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ArrangeAction.java
7	BezierPointLocator	19	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierPointLocator.java
8	BorderRectangleFigure	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BorderRectangleFigure.java
9	ChangeConnectionHandle	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChangeConnectionHandle.java
10	ChildHandler	19	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractCompositeFigure.java
11	ChildHandler	18	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ LabeledLineConnectionFigure.java
12	ChopBezierConnector	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopBezierConnector.java
13	ChopTriangleConnector	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopTriangleConnector.java
14	ClearAction	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ClearAction.java
15	CloseAction	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\CloseAction.java
16	Colors	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\Colors.java

17	CopyAction	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\CopyAction.java
18	CutAction	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\CutAction.java
19	DefaultAppletApplication	19	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultAppletApplication.java
20	DiamondFigure	1	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DiamondFigure.java
21	DrawingEvent	18	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DrawingEvent.java
22	DuplicateAction	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\DuplicateAction.java
23	DurationAdapter	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\figures\\TaskFigure.java
24	East	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
25	East	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveAction.java
26	EastHandle	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
27	EventHandler	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AbstractSelectedAction.java
28	FigureLayerComparator	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ FigureLayerComparator.java
29	FigureSelectionEvent	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ FigureSelectionEvent.java

30	FontSizeLocator	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ FontSizeLocator.java
31	FormListener	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\JPopupButton.java
32	FormListener	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java
33	GeneralPathTip	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GeneralPathTip.java
34	GeometryEdit	20	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GeometryEdit.java
35	GroupFigure	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GroupFigure.java
36	HandleEvent	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ HandleEvent.java
37	Horizontal	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
38	LineDecorationIcon	18	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\LineDecorationIcon.java
39	ListFigure	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ListFigure.java
40	LocaleUtil	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ util\\LocaleUtil.java
41	LocatorHandle	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ LocatorHandle.java
42	Main	18	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ Main.java

43	Main	18	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\Main.java
44	Main	18	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\Main.java
45	Main	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\Main.java
46	MaximizeAction	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\MaximizeAction.java
47	MinimizeAction	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\MinimizeAction.java
48	NameAdapter	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\figures\\TaskFigure.java
49	NetFactory	16	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetFactory.java
50	NewAction	16	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\NewAction.java
51	NonUndoableEdit	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ undo\\NonUndoableEdit.java
52	North	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
53	North	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveAction.java
54	NorthEastHandle	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
55	NorthHandle	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java

56	NorthWestHandle	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
57	Options	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ Options.java
58	PasteAction	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\PasteAction.java
59	PertFactory	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertFactory.java
60	PickAttributesAction	18	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\PickAttributesAction.java
61	PlacardScrollPaneLayout	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\PlacardScrollPaneLayout.java
62	PresentationFigureHandler	18	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GraphicalCompositeFigure.java
63	RedoAction	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ undo\\UndoRedoManager.java
64	ReversedList	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ util\\ReversedList.java
65	SaveAsAction	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\SaveAsAction.java
66	SelectAllAction	16	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\SelectAllAction.java
67	SelectSameAction	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\SelectSameAction.java
68	SeparatorLineFigure	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\figures\\SeparatorLineFigure.java

69	South	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
70	South	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveAction.java
71	SouthEastHandle	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
72	SouthHandle	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
73	SouthWestHandle	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
74	Strokelcon	16	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\Strokelcon.java
75	ThreadVar	4	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\SwingWorker.java
76	ToggleVisibleAction	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ToggleVisibleAction.java
77	ToolButtonListener	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ToolBarButtonFactory.java
78	ToolButtonListener	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetApplicationModel.java
79	ToolButtonListener	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplicationModel.java
80	ToolEvent	16	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ToolEvent.java
81	UndoAction	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ undo\\UndoRedoManager.java

82	Vertical	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
83	West	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
84	West	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveAction.java
85	WestHandle	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
86	XMLParseException	13	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLParseException.java
87	ZoomAction	19	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ZoomAction.java

Speculative Generality

Sr. No	Class Name	File Path (Location)
1	GenericListener	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\GenericListener.java
2	RunnableWorker	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\RunnableWorker.java
3	SwingWorker	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\SwingWorker.java
4	Worker	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ util\\Worker.java

Switch Statement

Sr. No	Class Name	Switch Statement	Switch Case	Class_Path
1	ArrangeAction	switch (arrangement) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ArrangeAction.java
2	AttributeKeys	switch (placement) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributeKeys.java
3	AttributeKeys	switch (placement) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributeKeys.java
4	AttributeKeys	switch (placement) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributeKeys.java
5	AttributeKeys	switch (placement) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributeKeys.java
6	AttributeKeys	switch (FILL_UNDER_STROKE.ge t(f)) {	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributeKeys.java
7	ChopBoxConnector	switch (STROKE_PLACEMENT.g et(target)) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopBoxConnector.java
8	ChopDiamondConne ctor	switch (STROKE_PLACEMENT.ge t(target)) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopDiamondConnector.java
9	ChopEllipseConnecto r	switch (STROKE_PLACEMENT.ge t(target)) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopEllipseConnector.java
10	ChopRoundRectConn ector	switch (STROKE_PLACEMENT.g et(target)) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopRoundRectConnector.java

11	DefaultDrawingViewBeanInfo	switch (iconKind) {	4	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingViewBeanInfo.java
12	DrawingPanelBeanInfo	switch (iconKind) {	4	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawingPanelBeanInfo.java
13	GraphicalCompositeFigure	switch (STROKE_PLACEMENT.get(this)) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GraphicalCompositeFigure.java
14	JPopupButtonBeanInfo	switch (iconKind) {	4	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\JPopupButtonBeanInfo.java
15	MDIDesktopPane	switch (newValue) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\MDIDesktopPane.java
16	PresentationFigureHandler	switch (STROKE_PLACEMENT.get(this)) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GraphicalCompositeFigure.java
17	RoundRectangleFigure	switch (STROKE_PLACEMENT.get(this)) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RoundRectangleFigure.java
18	StdXMLReader	switch (b) {	5	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\StdXMLReader.java
19	SVGPanelBeanInfo	switch (iconKind) {	4	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGPanelBeanInfo.java
20	SVGText	switch (TEXT_ANCHOR.get(this)) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\figures\\SVGText.java
21	TriangleFigure	switch (STROKE_PLACEMENT.get(this)) {	3	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TriangleFigure.java

22	TriangleFigure	switch (ORIENTATION.get(this)) {	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TriangleFigure.java
23	TriangleRotationHandler	switch (ORIENTATION.get(getOwner())) {	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TriangleRotationHandler.java

Comment Class

Sr. No	Class Name	Total LOC	Comment LOC	Comment Percentage	File Path
1	AbstractLocator	4	2	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractLocator.java
2	Actions	29	13	44.83%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\Actions.java
3	Bezier	479	247	51.57%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\Bezier.java
4	BezierLabelLocator	140	80	57.14%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierLabelLocator.java
5	ChangeConnectionHandle	3	5	166.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChangeConnectionHandle.java
6	ChildHandler	19	9	47.37%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractCompositeFigure.java
7	ChildHandler	18	17	94.44%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ LabeledLineConnectionFigure.java
8	Colors	10	4	40%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\Colors.java

9	CompositeEdit	73	40	54.79%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\undo\\CompositeEdit.java
10	CompositeTransferable	34	18	52.94%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\gui\\datatransfer\\CompositeTransferable.java
11	ConnectionHandler	22	28	127.27%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\LineConnectionFigure.java
12	DefaultDrawingViewBeanInfo	131	76	58.02%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\DefaultDrawingViewBeanInfo.java
13	DiamondFigure	1	17	1700%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\DiamondFigure.java
14	Dimension2DDouble	86	56	65.12%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\geom\\Dimension2DDouble.java
15	DrawingPanelBeanInfo	130	75	57.69%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\draw\\ DrawingPanelBeanInfo.java
16	DurationAdapter	9	6	66.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\pert\\figures\\TaskFigure.java
17	FigureLayerComparator	5	2	40%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\FigureLayerComparator.java
18	FigureSelectionEvent	5	2	40%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\FigureSelectionEvent.java
19	FormListener	9	9	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\action\\JPopupButton.java
20	FormListener	5	7	140%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\draw\\ DrawLiveConnectApplet.java
21	GroupFigure	13	8	61.54%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\GroupFigure.java

22	Insets2DDouble	90	49	54.44%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\geom\\Insets2DDouble.java
23	JPopupButtonBeanInfo	130	75	57.69%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\action\\JPopupButtonBeanInfo.java
24	JSheet	714	312	43.7%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\gui\\JSheet.java
25	NameAdapter	7	9	128.57%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\pert\\figures\\TaskFigure.java
26	Node	98	81	82.65%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\geom\\BezierPath.java
27	RedoAction	9	4	44.44%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\undo\\UndoRedoManager.java
28	ResourceBundleUtil	180	72	40%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\util\\ResourceBundleUtil.java
29	StdXMLBuilder	165	70	42.42%	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\StdXMLBuilder.java
30	SVGPanelBeanInfo	130	75	57.69%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGPanelBeanInfo.java
31	ToolButtonListener	8	14	175%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\action\\ToolBarButtonFactory.java
32	ToolButtonListener	8	4	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\net\\NetApplicationModel.java
33	ToolButtonListener	8	4	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\pert\\PertApplicationModel.java
34	UndoAction	10	5	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\undo\\UndoRedoManager.java

35	ValidatorPlugin	220	117	53.18%	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\ValidatorPlugin.java
36	VerticalGridLayout	247	119	48.18%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\VerticalGridLayout.java
37	XMLElement	1670	958	57.37%	\\JHotDraw 7.0.6\\src\\nanoxml\\XMLElement.java
38	XMLException	119	49	41.18%	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLException.java
39	XMLParseException	45	29	64.44%	\\JHotDraw 7.0.6\\src\\nanoxml\\XMLParseException.java
40	XMLParseException	13	7	53.85%	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLParseException.ja va
41	XMLParserFactory	72	39	54.17%	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLParserFactory.java
42	XMLTransferable	36	22	61.11%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\XMLTransferable.java
43	XMLValidationExceptio n	69	28	40.58%	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLValidationExcepti on.java

Middle Man

Sr. No	Class Name	No. of Method s	Method Called	Percentage	Class_Path
1	AboutAction	2	6	300%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\AboutAction.java

2	AbstractAttributedCompositeFigure	27	54	200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractAttributedCompositeFigure.java
3	AbstractDrawing	24	25	104.17%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractDrawing.java
4	AbstractEditorAction	7	7	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AbstractEditorAction.java
5	AbstractLayouter	1	2	200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractLayouter.java
6	AbstractLineDecoration	13	14	107.69%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractLineDecoration.java
7	AbstractSelectedAction	8	20	250%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AbstractSelectedAction.java
8	AbstractTool	34	53	155.88%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractTool.java
9	AbstractViewAction	8	13	162.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AbstractViewAction.java
10	Actions	3	5	166.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\Actions.java
11	AlignAction	5	44	880%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
12	ApplyAttributesAction	4	6	150%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ApplyAttributesAction.java
13	ArrangeAction	2	3	150%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ArrangeAction.java
14	ArrowTip	7	16	228.57%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ArrowTip.java

15	AttributeChangeEdit	4	6	150%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributeChangeEdit.java
16	AttributedFigure	25	57	228%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributedFigure.java
17	AttributeKeys	7	26	371.43%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributeKeys.java
18	AttributeToggler	5	6	120%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AttributeToggler.java
19	BezierControlPointHandle	10	40	400%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierControlPointHandle.java
20	BezierFigure	64	173	270.31%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierFigure.java
21	BezierLabelLocator	8	17	212.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierLabelLocator.java
22	BezierNodeHandle	12	60	500%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierNodeHandle.java
23	BezierPointLocator	5	6	120%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierPointLocator.java
24	BezierScaleHandle	10	22	220%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierScaleHandle.java
25	BezierTool	14	64	457.14%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierTool.java
26	BidirectionalConnectionTool	35	38	108.57%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BidirectionalConnectionTool.java
27	BorderRectangleFigure	2	2	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BorderRectangleFigure.java

28	BoxHandleKit	12	31	258.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
29	ChangeConnectionEndHandle	7	7	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChangeConnectionEndHandle.java
30	ChangeConnectionHandle	21	26	123.81%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChangeConnectionHandle.java
31	ChangeConnectionStartHandle	7	7	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChangeConnectionStartHandle.java
32	ChildHandler	8	40	500%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractCompositeFigure.java
33	ChildHandler	8	33	412.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ LabeledLineConnectionFigure.java
34	ChopBoxConnector	5	29	580%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopBoxConnector.java
35	ChopDiamondConnector	3	11	366.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopDiamondConnector.java
36	ChopEllipseConnector	5	7	140%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopEllipseConnector.java
37	ChopRoundRectConnector	3	11	366.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopRoundRectConnector.java
38	ClearAction	2	4	200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ClearAction.java
39	ClearRecentFilesAction	6	7	116.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ClearRecentFilesAction.java
40	CloseAction	2	3	150%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\CloseAction.java

41	ColorChooserAction	7	7	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ColorChooserAction.java
42	CombineAction	4	37	925%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\action\\CombineAction.java
43	ConnectionHandle	13	34	261.54%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ConnectionHandle.java
44	ConnectionHandler	7	59	842.86%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ LineConnectionFigure.java
45	ConnectionTool	40	45	112.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ConnectionTool.java
46	CopyAction	2	3	150%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\CopyAction.java
47	CreationTool	15	24	160%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ CreationTool.java
48	CutAction	2	3	150%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\CutAction.java
49	DefaultAttributeAction	9	9	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\DefaultAttributeAction.java
50	DefaultDrawing	27	36	133.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawing.java
51	DefaultDrawingEditor	21	26	123.81%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingEditor.java
52	DefaultDrawingView	66	121	183.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingView.java
53	DefaultInvoker	5	16	320%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\GenericListener.java

54	DefaultMDIApplication	16	184	1150%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\DefaultMDIApplication.java
55	DefaultOSXApplication	19	161	847.37%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\DefaultOSXApplication.java
56	DefaultSDIApplication	18	155	861.11%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\DefaultSDIApplication.java
57	DelegationSelectionTool	11	52	472.73%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\DelegationSelectionTool.java
58	DeleteAction	3	6	200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\action\\DeleteAction.java
59	DependencyFigure	8	12	150%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\figures\\DependencyFigure.java
60	DiamondFigure	16	23	143.75%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\DiamondFigure.java
61	DoubleStroke	6	70	1166.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\geom\\DoubleStroke.java
62	DragTracker	5	38	760%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\DragTracker.java
63	DrawApplet	10	36	360%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\DrawApplet.java
64	DrawApplicationModel	6	37	616.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\DrawApplicationModel.java
65	DrawingPanel	8	79	987.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\DrawingPanel.java
66	DrawLiveConnectApplet	10	52	520%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\DrawLiveConnectApplet.java

67	DrawProject	14	41	292.86%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawProject.java
68	DuplicateAction	2	3	150%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\DuplicateAction.java
69	DurationAdapter	2	82	4100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\figures\\TaskFigure.java
70	East	2	44	2200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
71	East	1	9	900%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveAction.java
72	EastHandle	3	31	1033.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
73	ElbowLiner	6	27	450%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ElbowLiner.java
74	EventHandler	2	20	1000%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AbstractSelectedAction.java
75	ExitAction	11	87	790.91%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ExitAction.java
76	ExportAction	5	31	620%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ExportAction.java
77	ExtensionFileFilter	6	7	116.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ io\\ExtensionFileFilter.java
78	FloatingTextArea	8	21	262.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ FloatingTextArea.java
79	FloatingTextField	11	18	163.64%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ FloatingTextField.java

80	FocusAction	6	29	483.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\FocusAction.java
81	FontSizeHandle	8	8	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ FontSizeHandle.java
82	FontSizeLocator	3	3	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ FontSizeLocator.java
83	FormListener	5	16	320%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\JPopupButton.java
84	FormListener	1	52	5200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java
85	GenericListener	7	16	228.57%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\GenericListener.java
86	GeometryEdit	4	6	150%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GeometryEdit.java
87	GraphicalCompositeFigure	28	57	203.57%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GraphicalCompositeFigure.java
88	GroupAction	7	27	385.71%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\GroupAction.java
89	GrowStroke	2	15	750%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\GrowStroke.java
90	Horizontal	2	44	2200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
91	HorizontalLayouter	2	9	450%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ HorizontalLayouter.java
92	ImageBevelBorder	6	7	116.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ImageBevelBorder.java

93	Insets2DDouble	9	9	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\geom\\Insets2DDouble.java
94	JavaxDOMInput	19	31	163.16%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\JavaxDOMInput.java
95	JavaxDOMOutput	21	40	190.48%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\JavaxDOMOutput.java
96	JPopupButton	15	16	106.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\action\\JPopupButton.java
97	JSheet	40	55	137.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\JSheet.java
98	LineConnectionFigure	39	59	151.28%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\LineConnectionFigure.java
99	LineDecorationIcon	4	5	125%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\action\\LineDecorationIcon.java
100	LineFigure	4	8	200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\LineFigure.java
101	LoadAction	4	15	375%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\LoadAction.java
102	LoadRecentAction	3	21	700%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\LoadRecentAction.java
103	LocatorHandle	4	4	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\LocatorHandle.java
104	LocatorLayouter	4	16	400%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\LocatorLayouter.java
105	Main	1	6	600%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\Main.java

106	Main	1	6	600%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\Main.java
107	Main	1	6	600%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\Main.java
108	Main	1	6	600%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\Main.java
109	MaximizeAction	3	3	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\MaximizeAction.java
110	MDIDesktopPane	11	42	381.82%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\MDIDesktopPane.java
111	MinimizeAction	3	3	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\MinimizeAction.java
112	MoveAction	2	9	450%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveAction.java
113	MoveHandle	14	17	121.43%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ MoveHandle.java
114	MoveToBackAction	3	9	300%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveToBackAction.java
115	MoveToFrontAction	3	10	333.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveToFrontAction.java
116	NameAdapter	2	82	4100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\figures\\TaskFigure.java
117	NanoXMLDOMInput	18	48	266.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMInput.java
118	NanoXMLDOMOutput	22	50	227.27%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMOutput.java

119	NanoXMMLiteDOMInput	18	46	255.56%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\NanoXMMLiteDOMInput.java
120	NanoXMMLiteDOMOutput	22	46	209.09%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\NanoXMMLiteDOMOutput.java
121	NetApplet	10	34	340%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\net\\NetApplet.java
122	NetApplicationModel	7	35	500%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\net\\NetApplicationModel.java
123	NetPanel	7	63	900%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\net\\NetPanel.java
124	NetProject	18	50	277.78%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\net\\NetProject.java
125	NewAction	2	9	450%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\action\\NewAction.java
126	Node	16	17	106.25%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\geom\\BezierPath.java
127	NodeFigure	10	29	290%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\net\\figures\\NodeFigure.java
128	NonValidator	15	69	460%	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\NonValidator.java
129	North	2	44	2200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\action\\AlignAction.java
130	North	1	9	900%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\action\\MoveAction.java
131	NorthEastHandle	3	31	1033.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\BoxHandleKit.java

132	NorthHandle	3	31	1033.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
133	NorthWestHandle	3	31	1033.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
134	OpenAction	4	37	925%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\OpenAction.java
135	OpenRecentAction	4	29	725%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\OpenRecentAction.java
136	OSXDropOnDockAction	2	13	650%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\OSXDropOnDockAction.java
137	OSXTogglePaletteAction	4	9	225%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\OSXTogglePaletteAction.java
138	PaletteMenuItemUI	4	5	125%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\PaletteMenuItemUI.java
139	PasteAction	2	3	150%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\PasteAction.java
140	PathTool	4	10	250%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\PathTool.java
141	PertApplet	10	36	360%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplet.java
142	PertApplicationModel	7	37	528.57%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplicationModel.java
143	PertPanel	7	65	928.57%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertPanel.java
144	PertProject	18	43	238.89%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertProject.java

145	PickAttributesAction	4	11	275%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\PickAttributesAction.java
146	PlacardScrollPaneLayout	2	7	350%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\PlacardScrollPaneLayout.java
147	PreferencesUtil	6	34	566.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ util\\prefs\\PreferencesUtil.java
148	PresentationFigureHandler	8	57	712.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GraphicalCompositeFigure.java
149	QuadNode	9	43	477.78%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\QuadTree2DDouble.java
150	QuadTree2DDouble	9	43	477.78%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\QuadTree2DDouble.java
151	QuadTreeDrawing	27	40	148.15%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ QuadTreeDrawing.java
152	RectangleFigure	12	13	108.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RectangleFigure.java
153	RedoAction	7	10	142.86%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\RedoAction.java
154	RedoAction	2	16	800%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ undo\\UndoRedoManager.java
155	ResizeHandle	6	31	516.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
156	RestoreDataEdit	6	10	166.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RestoreDataEdit.java
157	RotateHandle	9	17	188.89%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RotateHandle.java

158	RoundRectangleFigure	21	25	119.05%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RoundRectangleFigure.java
159	RoundRectRadiusHandle	7	19	271.43%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RoundRectRadiusHandle.java
160	SaveAction	5	34	680%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\SaveAction.java
161	SaveAsAction	1	2	200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\SaveAsAction.java
162	SaveBeforeAction	6	44	733.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\SaveBeforeAction.java
163	SelectAllAction	2	4	200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\SelectAllAction.java
164	SelectAreaTracker	8	8	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ SelectAreaTracker.java
165	SelectSameAction	3	7	233.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\SelectSameAction.java
166	SetBoundsEdit	6	6	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ SetBoundsEdit.java
167	SlantedLiner	7	42	600%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ SlantedLiner.java
168	South	2	44	2200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
169	South	1	9	900%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveAction.java
170	SouthEastHandle	3	31	1033.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java

171	SouthHandle	3	31	1033.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
172	SouthWestHandle	3	31	1033.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
173	SplitAction	4	37	925%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\action\\SplitAction.java
174	StdXMLBuilder	11	19	172.73%	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\StdXMLBuilder.java
175	StdXMLParser	19	117	615.79%	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\StdXMLParser.java
176	StdXMLReader	21	24	114.29%	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\StdXMLReader.java
177	StickyChopConnector	11	11	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ StickyChopConnector.java
178	SVGApplet	10	34	340%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGApplet.java
179	SVGApplicationModel	10	50	500%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGApplicationModel.java
180	SVGDrawing	8	31	387.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGDrawing.java
181	SVGEllipse	6	13	216.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\figures\\SVGEllipse.java
182	SVGGroup	8	37	462.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\figures\\SVGGroup.java
183	SVGLine	7	10	142.86%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\figures\\SVGLine.java

184	SVGLiveConnectApplet	10	48	480%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGLiveConnectApplet.java
185	SVGPanel	8	77	962.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGPanel.java
186	SVGPath	18	50	277.78%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\figures\\SVGPath.java
187	SVGProject	14	38	271.43%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGProject.java
188	SVGRect	6	14	233.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\figures\\SVGRect.java
189	SVGText	11	15	136.36%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\figures\\SVGText.java
190	SVGUtil	15	109	726.67%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGUtil.java
191	TaskFigure	23	82	356.52%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\figures\\TaskFigure.java
192	TextAreaTool	8	27	337.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextAreaTool.java
193	TextTool	10	31	310%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextTool.java
194	ToggleGridAction	4	5	125%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ToggleGridAction.java
195	ToggleProjectPropertyAc tion	7	7	100%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ToggleProjectPropertyAction.java
196	ToggleToolBarAction	4	7	175%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ToggleToolBarAction.java

197	ToggleVisibleAction	2	5	250%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ToggleVisibleAction.java
198	ToolBarButtonFactory	22	185	840.91%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ToolBarButtonFactory.java
199	ToolBarPrefsHandler	9	12	133.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ util\\prefs\\ToolBarPrefsHandler.java
200	ToolButtonListener	2	185	9250%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ToolBarButtonFactory.java
201	ToolButtonListener	2	35	1750%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetApplicationModel.java
202	ToolButtonListener	2	37	1850%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplicationModel.java
203	TransformEdit	8	14	175%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TransformEdit.java
204	TriangleFigure	19	55	289.47%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TriangleFigure.java
205	TriangleRotationHandler	8	12	150%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TriangleRotationHandler.java
206	UndoAction	7	10	142.86%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\UndoAction.java
207	UndoAction	2	16	800%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ undo\\UndoRedoManager.java
208	UngroupAction	7	28	400%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\UngroupAction.java
209	Vertical	2	44	2200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java

210	VerticalLayouter	2	9	450%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ VerticalLayouter.java
211	West	2	44	2200%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
212	West	1	9	900%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveAction.java
213	WestHandle	3	31	1033.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
214	XMLWriter	8	55	687.5%	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLWriter.java
215	ZoomEditorAction	3	4	133.33%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ZoomEditorAction.java

Divergent Change

Sr. No	Divergent Class Name	File Path (Location)	No of Methods Accessed
1	ToolButtonListener	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ToolBarButtonFactory.java	14
2	ToolBarButtonFactory	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ToolBarButtonFactory.java	14
3	BezierFigure	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierFigure.java	10
4	DefaultDrawingView	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingView.java	3
5	TextAreaTool	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextAreaTool.java	5

6	TextTool	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextTool.java	8
7	TriangleFigure	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TriangleFigure.java	3
8	Bezier	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\Bezier.java	4
9	DoubleStroke	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\DoubleStroke.java	7
10	GrowStroke	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\GrowStroke.java	6
11	DrawingPanel	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawingPanel.java	7
12	DrawProject	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawProject.java	6
13	Main	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ Main.java	4
14	Main	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\Main.java	4
15	NetPanel	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetPanel.java	7
16	NetProject	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetProject.java	6
17	Main	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\Main.java	4
18	PertPanel	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertPanel.java	7

19	PertProject	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertProject.java	6
20	SVGPath	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\figures\\SVGPath.java	8
21	SVGPanel	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGPanel.java	7
22	SVGProject	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGProject.java	6
23	SVGUtil	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGUtil.java	14
24	NanoXMLDOMInput	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMInput.java	4
25	NanoXMLDOMOutput	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMOutput.java	8

Shotgun Surgery

Sr. No.	Shotgun Class Name	Shotgun Method Name	Effected No. of Methods	Shotgun Class Path
1	AbstractAttributedCompositeFigure	Protected void writeAttributes	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractAttributedCompositeFigure.java
2	AbstractTool	Public void keyPressed	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractTool.java
3	AttributedFigure	Protected void writeAttributes	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributedFigure.java
4	BezierFigure	Protected BezierPath getCappedPath	4	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierFigure.java

5	DefaultMDIApplication	Protected JMenuBar createMenuBar	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultMDIApplication.java
6	DefaultMDIApplication	Public void show	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultMDIApplication.java
7	DefaultOSXApplication	Protected JMenuBar createMenuBar	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultOSXApplication.java
8	DefaultSDIApplication	Protected JMenuBar createMenuBar	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultSDIApplication.java
9	DoubleStroke	Protected void traceStroke	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\DoubleStroke.java
10	NetProject	Public void init	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetProject.java
11	NonValidator	Protected void processAttList	5	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\NonValidator.java
12	StdXMLParser	Protected void processElement	6	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\StdXMLParser.java

Message Chain

Sr. No	Class Name	Method Name	Method Chain Count	File Path (Location)
1	SVGGroup	Public void read	4	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\figures\\SVGGroup.java
2	TriangleFigure	Public BezierPath getBezierPath	4	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TriangleFigure.java

Inappropriate Intimacy

Sr. No.	Intimate Class Name	Calling Class Name	Intimacy Method Value	Intimate Class Path	Calling Class Path
1	AbstractFigure	AbstractTool	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractFigure.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractTool.java
2	BidirectionalConnectionTool	ConnectionTool	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BidirectionalConnectionTool.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ConnectionTool.java
3	DrawLiveConnectApplet	PertApplet	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplet.java
4	JavaxDOMInput	NanoXMLDOMInput	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\JavaxDOMInput.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMInput.java
5	JavaxDOMOutput	NanoXMLLiteDOMOutput	4	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\JavaxDOMOutput.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLLiteDOMOutput.java
6	NanoXMLDOMInput	NanoXMLLiteDOMInput	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMInput.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLLiteDOMInput.java
7	NanoXMLDOMOutput	NanoXMLLiteDOMOutput	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMOutput.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLLiteDOMOutput.java
8	NetProject	SVGProject	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetProject.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGProject.java

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Feature Envy

Sr. No	Class Name	Method Name	Method Call	File Path
1	AbstractApplication	Public void addRecentFile	5	\JHotDraw 7.0.6\src\org\jhotdraw\ app\AbstractApplication.java
2	AbstractAttributedCompositeFigure	Public void drawFigure	10	\JHotDraw 7.0.6\src\org\jhotdraw\ draw\ AbstractAttributedCompositeFigure.java
3	AbstractAttributedCompositeFigure	Protected void readAttributes	10	\JHotDraw 7.0.6\src\org\jhotdraw\ draw\ AbstractAttributedCompositeFigure.java
4	AbstractAttributedCompositeFigure	Protected void writeAttributes	13	\JHotDraw 7.0.6\src\org\jhotdraw\ draw\ AbstractAttributedCompositeFigure.java
5	AbstractConnector	Public void read	5	\JHotDraw 7.0.6\src\org\jhotdraw\ draw\ AbstractConnector.java
6	AbstractConnector	Public void write	5	\JHotDraw 7.0.6\src\org\jhotdraw\ draw\ AbstractConnector.java
7	AbstractHandle	Protected void drawDiamond	6	\JHotDraw 7.0.6\src\org\jhotdraw\ draw\ AbstractHandle.java
8	AbstractLineDecoration	Public Rectangle2D.Double getDrawBounds	7	\JHotDraw 7.0.6\src\org\jhotdraw\ draw\ AbstractLineDecoration.java
9	AbstractTool	Public void keyPressed	27	\JHotDraw 7.0.6\src\org\jhotdraw\ draw\ AbstractTool.java

10	AbstractTool	Public void updateCursor	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractTool.java
11	AlignAction	Protected void alignFigures	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
12	ArrowTip	Public void read	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ArrowTip.java
13	ArrowTip	Public void write	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ArrowTip.java
14	AttributeAction	Public void changeAttributes	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AttributeAction.java
15	AttributedFigure	Public void drawFigure	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributedFigure.java
16	AttributedFigure	Protected void readAttributes	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributedFigure.java
17	AttributedFigure	Protected void writeAttributes	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributedFigure.java
18	AttributeToggler	Public void actionPerformed	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AttributeToggler.java
19	BezierControlPointHandle	Public void draw	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierControlPointHandle.java
20	BezierControlPointHandle	Public void trackEnd	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierControlPointHandle.java
21	BezierControlPointHandle	Public void trackStart	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierControlPointHandle.java
22	BezierControlPointHandle	Public void trackStep	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierControlPointHandle.java

23	BezierFigure	Public boolean contains	16	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierFigure.java
24	BezierFigure	Protected void drawCaps	17	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierFigure.java
25	BezierFigure	Protected void drawStroke	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierFigure.java
26	BezierFigure	Protected BezierPath getCappedPath	35	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierFigure.java
27	BezierFigure	Public Rectangle2D.Double getFigureDrawBounds	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierFigure.java
28	BezierFigure	Protected void readPoints	18	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierFigure.java
29	BezierFigure	Protected void writePoints	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierFigure.java
30	BezierLabelLocator	Public Point2D.Double getRelativeLabelPoint	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierLabelLocator.java
31	BezierNodeHandle	Public Collection<Handle> createSecondaryHandles	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierNodeHandle.java
32	BezierNodeHandle	Public void trackEnd	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierNodeHandle.java
33	BezierNodeHandle	Public void trackStart	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierNodeHandle.java
34	BezierNodeHandle	Public void trackStep	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierNodeHandle.java

35	BezierPath	Public Point2D.Double chop	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\BezierPath.java
36	BezierScaleHandle	Public void trackStart	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierScaleHandle.java
37	BezierScaleHandle	Public void trackStep	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierScaleHandle.java
38	BezierTool	Protected void addPointToFigure	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierTool.java
39	BezierTool	Protected BezierFigure createFigure	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierTool.java
40	BezierTool	Public void mouseClicked	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierTool.java
41	BezierTool	Public void mousePressed	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierTool.java
42	BezierTool	Public void mouseReleased	17	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierTool.java
43	BidirectionalConnectionTool	Protected ConnectionFigure createFigure	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BidirectionalConnectionTool.java
44	BidirectionalConnectionTool	Public void mouseReleased	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BidirectionalConnectionTool.java
45	BidirectionalConnectionTool	Protected void trackConnectors	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BidirectionalConnectionTool.java
46	ChangeConnectionHandle	Private Connector findConnectionTarget	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChangeConnectionHandle.java

47	ChangeConnectionHandle	Public void trackEnd	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChangeConnectionHandle.java
48	ChangeConnectionHandle	Public void trackStep	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChangeConnectionHandle.java
49	ChopBoxConnector	Protected Point2D.Double chop	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopBoxConnector.java
50	ChopBoxConnector	Public Point2D.Double findEnd	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopBoxConnector.java
51	ChopBoxConnector	Public Point2D.Double findStart	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopBoxConnector.java
52	ChopDiamondConnector	Protected Point2D.Double chop	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopDiamondConnector.java
53	ChopEllipseConnector	Protected Point2D.Double chop	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopEllipseConnector.java
54	ChopRoundRectConnector	Protected Point2D.Double chop	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ChopRoundRectConnector.java
55	CombineAction	Public void groupFigures	17	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\action\\CombineAction.java
56	CombineAction	Public Collection<Figure> ungroupFigures	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\action\\CombineAction.java
57	ConnectionHandle	Public void trackEnd	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ConnectionHandle.java
58	ConnectionHandle	Public void trackStart	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ConnectionHandle.java

59	ConnectionHandle	Public void trackStep	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ConnectionHandle.java
60	ConnectionTool	Protected ConnectionFigure createFigure	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ConnectionTool.java
61	ConnectionTool	Public void mouseDragged	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ConnectionTool.java
62	ConnectionTool	Public void mousePressed	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ConnectionTool.java
63	ConnectionTool	Public void mouseReleased	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ConnectionTool.java
64	CreationTool	Protected Figure createFigure	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ CreationTool.java
65	CreationTool	Public void mousePressed	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ CreationTool.java
66	CreationTool	Public void mouseReleased	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ CreationTool.java
67	DefaultDrawing	Public Collection<Figure> sort	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawing.java
68	DefaultDrawingView	Public void copy	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingView.java
69	DefaultDrawingView	Protected void drawDrawing	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingView.java
70	DefaultDrawingView	Public void duplicate	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingView.java

71	DefaultDrawingView	Public Collection<Handle> getCompatibleHandles	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingView.java
72	DefaultDrawingView	Public void handleRequestRemove	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingView.java
73	DefaultDrawingView	Public void handleRequestSecondaryHandles	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingView.java
74	DefaultDrawingView	Private void invalidateHandles	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingView.java
75	DefaultDrawingView	Public void paste	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingView.java
76	DefaultDrawingView	Private void validateHandles	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingView.java
77	DefaultMDIApplication	Protected void addStandardActionsTo	18	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultMDIApplication.java
78	DefaultMDIApplication	Protected JMenuBar createMenuBar	82	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultMDIApplication.java
79	DefaultMDIApplication	Public void hide	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultMDIApplication.java
80	DefaultMDIApplication	Public void init	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultMDIApplication.java
81	DefaultMDIApplication	Protected void initApplicationActions	22	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultMDIApplication.java
82	DefaultMDIApplication	Public void show	32	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultMDIApplication.java

83	DefaultMDIApplication	Private void updateOpenRecentMenu	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultMDIApplication.java
84	DefaultMDIApplication	Protected Component wrapDesktopPane	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultMDIApplication.java
85	DefaultOSXApplication	Protected void addStandardActionsTo	18	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultOSXApplication.java
86	DefaultOSXApplication	Protected JMenuBar createMenuBar	71	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultOSXApplication.java
87	DefaultOSXApplication	Public void hide	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultOSXApplication.java
88	DefaultOSXApplication	Protected void initApplicationActions	19	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultOSXApplication.java
89	DefaultOSXApplication	Protected void initPalettes	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultOSXApplication.java
90	DefaultOSXApplication	Protected void initScreenMenuBar	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultOSXApplication.java
91	DefaultOSXApplication	Public void show	25	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultOSXApplication.java
92	DefaultOSXApplication	Private void updateOpenRecentMenu	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultOSXApplication.java
93	DefaultSDIApplication	Protected void addStandardActionsTo	18	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultSDIApplication.java
94	DefaultSDIApplication	Protected JMenuBar createMenuBar	66	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultSDIApplication.java

95	DefaultSDIApplication	Protected void initApplicationActions	20	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultSDIApplication.java
96	DefaultSDIApplication	Public void show	28	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultSDIApplication.java
97	DefaultSDIApplication	Private void updateOpenRecentMenu	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultSDIApplication.java
98	DefaultSDIApplication	Protected Component wrapProjectComponent	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultSDIApplication.java
99	DelegationSelectionTool	Protected void handleDoubleClick	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DelegationSelectionTool.java
100	DelegationSelectionTool	Protected void showPopupMenu	28	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DelegationSelectionTool.java
101	DiamondFigure	Public boolean contains	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DiamondFigure.java
102	DiamondFigure	Protected void drawFill	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DiamondFigure.java
103	DiamondFigure	Protected void drawStroke	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DiamondFigure.java
104	DoubleStroke	Public Shape createStrokedShape	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\DoubleStroke.java
105	DoubleStroke	Protected void traceStroke	56	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\DoubleStroke.java
106	DragTracker	Public void mouseDragged	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DragTracker.java

107	DragTracker	Public void mousePressed	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DragTracker.java
108	DragTracker	Public void mouseReleased	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DragTracker.java
109	DrawApplet	Public String getData	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawApplet.java
110	DrawApplet	Public void init	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawApplet.java
111	DrawApplet	Public void setData	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawApplet.java
112	DrawApplicationModel	Public void addDefaultCreationButtonsTo	20	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawApplicationModel.java
113	DrawApplicationModel	Public List<JToolBar> createToolBars	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawApplicationModel.java
114	DrawingPanel	Public void addDefaultCreationButtonsTo	20	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawingPanel.java
115	DrawLiveConnectApplet	Public String getData	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java
116	DrawLiveConnectApplet	Public void init	17	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java
117	DrawLiveConnectApplet	Private void initComponents	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java
118	DrawLiveConnectApplet	Public void setData	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java

119	DrawProject	Public void init	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawProject.java
120	DrawProject	Public void read	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawProject.java
121	DrawProject	Public void write	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawProject.java
122	East	Protected void alignFigures	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
123	ElbowLiner	Public void lineout	27	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ElbowLiner.java
124	ExitAction	Public void actionPerformed	27	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ExitAction.java
125	ExitAction	Protected void fileSaved	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ExitAction.java
126	ExitAction	Protected void fileSavedAndReviewNext	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ExitAction.java
127	ExitAction	Protected void reviewChanges	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ExitAction.java
128	ExitAction	Protected void saveChanges	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ExitAction.java
129	ExitAction	Protected void saveChangesAndReviewNext	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ExitAction.java
130	ExportAction	Public void actionPerformed	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ExportAction.java

131	ExportAction	Protected void fileExported	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ExportAction.java
132	FloatingTextArea	Public void endOverlay	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ FloatingTextArea.java
133	FloatingTextField	Public void endOverlay	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ FloatingTextField.java
134	FocusAction	Public void actionPerformed	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\FocusAction.java
135	FocusAction	Private String getTitle	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\FocusAction.java
136	GraphicalCompositeFigure	Public Point2D.Double chop	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GraphicalCompositeFigure.java
137	GraphicalCompositeFigure	Protected void readAttributes	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GraphicalCompositeFigure.java
138	GraphicalCompositeFigure	Protected void writeAttributes	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GraphicalCompositeFigure.java
139	GridConstrainer	Public void draw	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GridConstrainer.java
140	GroupAction	Public void actionPerformed	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\GroupAction.java
141	GroupAction	Public void groupFigures	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\GroupAction.java
142	GroupAction	Public Collection<Figure> ungroupFigures	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\GroupAction.java

143	GrowStroke	Public Shape createStrokedShape	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\GrowStroke.java
144	Horizontal	Protected void alignFigures	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
145	HorizontalLayouter	Public Rectangle2D.Double layout	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ HorizontalLayouter.java
146	JavaxDOMOutput	Public void writeObject	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\JavaxDOMOutput.java
147	JavaxDOMOutput	Private void writeStorable	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\JavaxDOMOutput.java
148	JPopupButton	Private void showPopup	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\JPopupButton.java
149	JSheet	Public void hide	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\JSheet.java
150	JSheet	Protected void installSheet	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\JSheet.java
151	JSheet	Public void show	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\JSheet.java
152	LineConnectionFigure	Protected void readPoints	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ LineConnectionFigure.java
153	LineConnectionFigure	Protected void writePoints	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ LineConnectionFigure.java
154	LoadAction	Protected void fileOpened	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\LoadAction.java

155	LoadRecentAction	Public void doIt	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\LoadRecentAction.java
156	LoadRecentAction	Protected void fileOpened	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\LoadRecentAction.java
157	LocatorLayouter	Public Rectangle2D.Double calculateLayout	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ LocatorLayouter.java
158	LocatorLayouter	Public Rectangle2D.Double layout	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ LocatorLayouter.java
159	MoveAction	Public void actionPerformed	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveAction.java
160	MoveHandle	Public void trackStep	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ MoveHandle.java
161	MoveToBackAction	Public void actionPerformed	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveToBackAction.java
162	MoveToFrontAction	Public void actionPerformed	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\MoveToFrontAction.java
163	NanoXMLDOMOutput	Public Object getPrototype	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMOutput.java
164	NanoXMLDOMOutput	Public void print	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMOutput.java
165	NanoXMLDOMOutput	Public void writeObject	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMOutput.java
166	NanoXMLDOMOutput	Private XMLElement writeStorable	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMOutput.java

167	NanoXMLLiteDOMOutput	Public Object getPrototype	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLLiteDOMOutput.java
168	NanoXMLLiteDOMOutput	Public void writeObject	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLLiteDOMOutput.java
169	NanoXMLLiteDOMOutput	Private XMLElement writeStorable	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLLiteDOMOutput.java
170	NetApplet	Public String getData	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetApplet.java
171	NetApplet	Public void init	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetApplet.java
172	NetApplet	Public void setData	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetApplet.java
173	NetApplicationModel	Private void addCreationButtonsTo	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetApplicationModel.java
174	NetApplicationModel	Public java.util.List<JMenu> createMenus	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetApplicationModel.java
175	NetApplicationModel	Public java.util.List<JToolBar> createToolBars	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetApplicationModel.java
176	NetPanel	Private void addCreationButtonsTo	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetPanel.java
177	NetProject	Public void init	26	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetProject.java
178	NetProject	Public void read	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetProject.java

179	NewAction	Public void actionPerformed	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\NewAction.java
180	NodeFigure	Private void createConnectors	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\figures\\NodeFigure.java
181	NodeFigure	Public Collection<Handle> createHandles	16	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\figures\\NodeFigure.java
182	NonValidator	Public void parseDTD	8	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\NonValidator.java
183	NonValidator	Protected void processAttList	26	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\NonValidator.java
184	NonValidator	Protected void processConditionalSection	7	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\NonValidator.java
185	NonValidator	Protected void processEntity	17	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\NonValidator.java
186	North	Protected void alignFigures	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
187	OpenAction	Public void actionPerformed	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\OpenAction.java
188	OpenAction	Protected void fileOpened	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\OpenAction.java
189	OpenAction	Protected void openFile	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\OpenAction.java
190	OpenRecentAction	Public void actionPerformed	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\OpenRecentAction.java

191	OpenRecentAction	Protected void fileOpened	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\OpenRecentAction.java
192	OpenRecentAction	Protected void openFile	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\OpenRecentAction.java
193	OSXDropOnDockAction	Public void actionPerformed	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\OSXDropOnDockAction.java
194	PathTool	Protected SVGPath createPath	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\PathTool.java
195	PathTool	Protected void finishCreation	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\PathTool.java
196	PertApplet	Public String getData	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplet.java
197	PertApplet	Public void init	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplet.java
198	PertApplet	Public void setData	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplet.java
199	PertApplicationModel	Private void addCreationButtonsTo	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplicationModel.java
200	PertApplicationModel	Public java.util.List<JMenu> createMenus	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplicationModel.java
201	PertApplicationModel	Public java.util.List<JToolBar> createToolBars	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplicationModel.java
202	PertPanel	Private void addCreationButtonsTo	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertPanel.java

203	PertProject	Public void init	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertProject.java
204	PertProject	Public void read	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertProject.java
205	PertProject	Public void write	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertProject.java
206	PickAttributesAction	Public void pickAttributes	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\PickAttributesAction.java
207	PlacardScrollPaneLayout	Public void layoutContainer	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\PlacardScrollPaneLayout.java
208	QuadNode	Public void findIntersects	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\QuadTree2DDouble.java
209	QuadTree2DDouble	Public void reorganize	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\QuadTree2DDouble.java
210	QuadTreeDrawing	Public void basicAdd	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ QuadTreeDrawing.java
211	QuadTreeDrawing	Public void figureChanged	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ QuadTreeDrawing.java
212	ResizeHandle	Protected void setBounds	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BoxHandleKit.java
213	RotateHandle	Public void trackStart	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RotateHandle.java
214	RotateHandle	Public void trackStep	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RotateHandle.java
215	RoundRectangleFigure	Public Point2D.Double chop	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RoundRectangleFigure.java

216	RoundRectRadiusHandle	Private Point locate	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RoundRectRadiusHandle.java
217	RoundRectRadiusHandle	Public void trackStart	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RoundRectRadiusHandle.java
218	RoundRectRadiusHandle	Public void trackStep	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RoundRectRadiusHandle.java
219	SaveAction	Public void actionPerformed	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\SaveAction.java
220	SaveAction	Protected void fileSaved	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\SaveAction.java
221	SaveBeforeAction	Public void actionPerformed	21	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\SaveBeforeAction.java
222	SaveBeforeAction	Protected void fileSaved	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\SaveBeforeAction.java
223	SaveBeforeAction	Protected void saveChanges	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\SaveBeforeAction.java
224	SelectSameAction	Public void selectSame	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\SelectSameAction.java
225	SlantedLiner	Public void lineout	40	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ SlantedLiner.java
226	South	Protected void alignFigures	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
227	SplitAction	Public void groupFigures	17	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\action\\SplitAction.java
228	SplitAction	Public Collection<Figure>	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\action\\SplitAction.java

		ungroupFigures		
229	StdXMLBuilder	Public void addAttribute	5	\JHotDraw 7.0.6\src\net\n3\nanoxml\StdXMLBuilder.java
230	StdXMLBuilder	Public void addPCData	5	\JHotDraw 7.0.6\src\net\n3\nanoxml\StdXMLBuilder.java
231	StdXMLBuilder	Public void endElement	6	\JHotDraw 7.0.6\src\net\n3\nanoxml\StdXMLBuilder.java
232	StdXMLParser	Protected void processAttribute	9	\JHotDraw 7.0.6\src\net\n3\nanoxml\StdXMLParser.java
233	StdXMLParser	Protected void processCDATA	9	\JHotDraw 7.0.6\src\net\n3\nanoxml\StdXMLParser.java
234	StdXMLParser	Protected void processDocType	20	\JHotDraw 7.0.6\src\net\n3\nanoxml\StdXMLParser.java
235	StdXMLParser	Protected void processElement	57	\JHotDraw 7.0.6\src\net\n3\nanoxml\StdXMLParser.java
236	StdXMLParser	Protected void processSpecialTag	6	\JHotDraw 7.0.6\src\net\n3\nanoxml\StdXMLParser.java
237	StdXMLParser	Protected void scanData	6	\JHotDraw 7.0.6\src\net\n3\nanoxml\StdXMLParser.java
238	StdXMLReader	Protected String getEncoding	10	\JHotDraw 7.0.6\src\net\n3\nanoxml\StdXMLReader.java
239	StdXMLReader	Public Reader openStream	7	\JHotDraw 7.0.6\src\net\n3\nanoxml\StdXMLReader.java
240	SVGApplet	Public String getData	9	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\svg\SVGApplet.java

241	SVGApplet	Public void init	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGApplet.java
242	SVGApplet	Public void setData	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGApplet.java
243	SVGApplicationModel	Private void addAttributesButtonsTo	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGApplicationModel.java
244	SVGApplicationModel	Private void addCreationButtonsTo	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGApplicationModel.java
245	SVGApplicationModel	Public java.util.List<JToolBar> createToolBars	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGApplicationModel.java
246	SVGDrawing	Public void read	27	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGDrawing.java
247	SVGEllipse	Public void read	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\figures\\SVGEllipse.java
248	SVGGroup	Public void read	33	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\figures\\SVGGroup.java
249	SVGLine	Public void read	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\figures\\SVGLine.java
250	SVGLiveConnectApplet	Public String getData	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGLiveConnectApplet.java
251	SVGLiveConnectApplet	Public void init	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGLiveConnectApplet.java
252	SVGLiveConnectApplet	Private void initComponents	9	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGLiveConnectApplet.java

253	SVGLiveConnectApplet	Public void setData	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGLiveConnectApplet.java
254	SVGPanel	Private void addCreationButtonsTo	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGPanel.java
255	SVGPath	Public void drawFigure	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\figures\\SVGPath.java
256	SVGPath	Public Collection<Action> getActions	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\figures\\SVGPath.java
257	SVGPath	Protected void readPoints	16	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\figures\\SVGPath.java
258	SVGProject	Public void init	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGProject.java
259	SVGProject	Public void read	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGProject.java
260	SVGProject	Public void write	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGProject.java
261	SVGRect	Public void read	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\figures\\SVGRect.java
262	SVGRect	Public void write	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\figures\\SVGRect.java
263	SVGText	Public void read	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\figures\\SVGText.java
264	TaskFigure	Public Collection<Handle> createHandles	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\pert\\figures\\TaskFigure.java

265	TaskFigure	Public void read	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\figures\\TaskFigure.java
266	TaskFigure	Public void write	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\figures\\TaskFigure.java
267	TextAreaFigure	Protected void drawText	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextAreaFigure.java
268	TextAreaTool	Protected void beginEdit	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextAreaTool.java
269	TextAreaTool	Protected void endEdit	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextAreaTool.java
270	TextAreaTool	Public void mouseReleased	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextAreaTool.java
271	TextFigure	Public Collection<Handle> createHandles	7	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextFigure.java
272	TextFigure	Public Rectangle2D.Double getFigureDrawBounds	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextFigure.java
273	TextTool	Protected void beginEdit	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextTool.java
274	TextTool	Protected void endEdit	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextTool.java
275	TextTool	Private Rectangle getFieldBounds	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextTool.java
276	ToolBarPrefsHandler	Private void locationChanged	6	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ util\\prefs\\ToolBarPrefsHandler.java

277	TriangleFigure	Protected void drawStroke	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TriangleFigure.java
278	TriangleFigure	Public BezierPath getBezierPath	26	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TriangleFigure.java
279	TriangleFigure	Public Rectangle2D.Double getFigureDrawBounds	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TriangleFigure.java
280	UndoRedoManager	Private void updateActions	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ undo\\UndoRedoManager.java
281	UngroupAction	Public void actionPerformed	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\UngroupAction.java
282	UngroupAction	Public void groupFigures	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\UngroupAction.java
283	UngroupAction	Public Collection<Figure> ungroupFigures	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\UngroupAction.java
284	Vertical	Protected void alignFigures	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
285	VerticalGridLayout	Public void layoutContainer	8	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\VerticalGridLayout.java
286	VerticalLayouter	Public Rectangle2D.Double layout	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ VerticalLayouter.java
287	West	Protected void alignFigures	5	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java
288	XMLWriter	Private void writeEncoded	12	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLWriter.java

Temporary Field

Sr. No	Class Name	Attribute Name	Class Methods	No. of Methods	Usage Percentage	File Path
1	AbstractApp lication	isEnabled	25	2	8%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\AbstractApplication.java
2	AbstractApp lication	maxRecentF ilesCount	25	1	4%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\AbstractApplication.java
3	AbstractApp lication	unmodifiabl eDocument s	25	1	4%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\AbstractApplication.java
4	AbstractDra wing	fontRender Context	24	2	8.33333333333333%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractDrawing.java
5	AbstractDra wing	lock	24	1	4.16666666666667%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractDrawing.java
6	AbstractFigu re	isConnector sVisible	70	3	4.28571428571429%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractFigure.java
7	AbstractFigu re	isDrawDeco ratorFirst	70	2	2.85714285714286%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractFigure.java
8	AbstractFigu re	isInteractive	70	2	2.85714285714286%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractFigure.java
9	AbstractFigu re	isVisible	70	3	4.28571428571429%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractFigure.java
10	AbstractProj ect	actions	23	2	8.69565217391304%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\AbstractProject.java

11	AbstractProject	executor	23	1	4.34782608695652%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\AbstractProject.java
12	AbstractProject	file	23	2	8.69565217391304%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\AbstractProject.java
13	AbstractProject	hasUnsavedChanges	23	2	8.69565217391304%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\AbstractProject.java
14	AbstractProject	isShowing	23	2	8.69565217391304%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\AbstractProject.java
15	AbstractProject	multipleOpenId	23	2	8.69565217391304%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\AbstractProject.java
16	AbstractProject	openChooser	23	1	4.34782608695652%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\AbstractProject.java
17	AbstractProject	saveChooser	23	1	4.34782608695652%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\AbstractProject.java
18	AbstractTool	anchor	34	1	2.94117647058824%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ AbstractTool.java
19	BezierFigure	CLOSED	64	3	4.6875%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ BezierFigure.java
20	BezierNodeHandle	oldNode	12	1	8.33333333333333%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ BezierNodeHandle.java
21	BezierTool	attributes	14	1	7.14285714285714%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ BezierTool.java
22	BidirectionalConnectionTool	attributes	35	1	2.85714285714286%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ BidirectionalConnectionTool.java

23	ChangeConnectionHandle	start	21	1	4.76190476190476%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ ChangeConnectionHandle.java
24	CompositeEdit	isVerbose	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\undo\\CompositeEdit.java
25	ConnectionTool	attributes	40	1	2.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ ConnectionTool.java
26	ConnectionTool	isPressed	40	2	5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ ConnectionTool.java
27	CreationTool	attributes	15	1	6.66666666666667%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ CreationTool.java
28	CreationTool	minimalSizeThreshold	15	1	6.66666666666667%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ CreationTool.java
29	DefaultDOMFactory	enumToValueMap	10	1	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\DefaultDOMFactory.java
30	DefaultDOMFactory	valueToEnumMap	10	1	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\DefaultDOMFactory.java
31	DefaultDrawing	needsSorting	27	2	7.40740740740741%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawing.java
32	DefaultDrawingEditor	focusHandler	21	2	9.52380952380952%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingEditor.java
33	DefaultDrawingEditor	isEnabled	21	2	9.52380952380952%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingEditor.java
34	DefaultDrawingView	detailLevel	66	3	4.54545454545455%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingView.java

35	DefaultDrawingView	emptyDrawingLabel	66	3	4.54545454545455%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingView.java
36	DefaultDrawingView	handlesAreValid	66	2	3.03030303030303%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingView.java
37	DefaultDrawingView	preferredSize	66	2	3.03030303030303%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingView.java
38	DefaultDrawingView	rainbow	66	1	1.51515151515152%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingView.java
39	DefaultDrawingView	secondaryHandles	66	4	6.06060606060606%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingView.java
40	DefaultDrawingView	selectionHandles	66	5	7.57575757575758%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingView.java
41	DefaultDrawingViewBeanInfo	iconColor32	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingViewBeanInfo.java
42	DefaultDrawingViewBeanInfo	iconMono16	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingViewBeanInfo.java
43	DefaultDrawingViewBeanInfo	iconNameC32	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingViewBeanInfo.java
44	DefaultDrawingViewBeanInfo	iconNameM16	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ DefaultDrawingViewBeanInfo.java
45	DefaultMDIApplication	scrollPane	16	1	6.25%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\DefaultMDIApplication.java
46	DrawApplet	NAME	10	1	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\draw\\ DrawApplet.java

47	DrawingPanelBeanInfo	iconColor32	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\draw\\DrawingPanelBeanInfo.java
48	DrawingPanelBeanInfo	iconMono16	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\draw\\DrawingPanelBeanInfo.java
49	DrawingPanelBeanInfo	iconNameC32	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\draw\\DrawingPanelBeanInfo.java
50	DrawingPanelBeanInfo	iconNameM16	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\draw\\DrawingPanelBeanInfo.java
51	DrawLiveConnectApplet	jToolBar1	10	1	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\draw\\DrawLiveConnectApplet.java
52	DrawLiveConnectApplet	NAME	10	1	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\draw\\DrawLiveConnectApplet.java
53	DrawLiveConnectApplet	toolButtonGroup	10	1	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\draw\\DrawLiveConnectApplet.java
54	JPopupButtonBeanInfo	iconColor32	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\action\\JPopupButtonBeanInfo.java
55	JPopupButtonBeanInfo	iconMono16	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\action\\JPopupButtonBeanInfo.java
56	JPopupButtonBeanInfo	iconNameC32	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\action\\JPopupButtonBeanInfo.java

57	JPopupButtonBeanInfo	iconNameM16	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\action\\JPopupButtonBeanInfo.java
58	MDIDesktopPane	FRAME_OFFSET	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\gui\\MDIDesktopPane.java
59	MoveHandle	geometry	14	1	7.14285714285714%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ MoveHandle.java
60	NetApplet	NAME	10	1	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\net\\NetApplet.java
61	NetProject	prefs	18	1	5.55555555555556%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\net\\NetProject.java
62	PertApplet	NAME	10	1	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\pert\\PertApplet.java
63	RelativeDecoratorLocator	isQuadratic	13	1	7.69230769230769%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ RelativeDecoratorLocator.java
64	RoundRectangleFigure	DEFAULT_ARC	21	1	4.76190476190476%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ RoundRectangleFigure.java
65	SVGApplet	NAME	10	1	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGApplet.java
66	SVGLiveConnectApplet	jToolBar1	10	1	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGLiveConnectApplet.java
67	SVGLiveConnectApplet	NAME	10	1	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGLiveConnectApplet.java
68	SVGLiveConnectApplet	toolButtonGroup	10	1	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGLiveConnectApplet.java

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69	SVGPanelBeanInfo	iconColor32	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGPanelBeanInfo.java
70	SVGPanelBeanInfo	iconMono16	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGPanelBeanInfo.java
71	SVGPanelBeanInfo	iconNameC32	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGPanelBeanInfo.java
72	SVGPanelBeanInfo	iconNameM16	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\SVGPanelBeanInfo.java
73	SVGText	TEXT_ANCHOR	11	1	9.09090909090909%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\samples\\svg\\figures\\SVGText.java
74	TextAreaFigure	dashes	33	1	3.03030303030303%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ TextAreaFigure.java
75	TextAreaFigure	editable	33	2	6.06060606060606%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ TextAreaFigure.java
76	TextFigure	editable	34	2	5.88235294117647%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\ TextFigure.java
77	UndoRedoManager	DEBUG	20	2	10%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\undo\\UndoRedoManager.java

Primitive Obsession

Sr. No	Class Name	Primitive Data Types	Class Path
1	AbstractAttributedCompositeFigure	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractAttributedCompositeFigure.java

2	AbstractBean	21	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ beans\\AbstractBean.java
3	AbstractCompositeFigure	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractCompositeFigure.java
4	AbstractFigure	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractFigure.java
5	ArrowTip	23	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ ArrowTip.java
6	AttributeAction	16	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AttributeAction.java
7	AttributedFigure	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributedFigure.java
8	AttributeKeys	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributeKeys.java
9	AttributeToggler	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AttributeToggler.java
10	Bezier	83	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\Bezier.java
11	BezierControlPointHandle	19	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierControlPointHandle.java
12	BezierFigure	52	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierFigure.java
13	BezierLabelLocator	25	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierLabelLocator.java
14	BezierPath	197	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\BezierPath.java

15	BezierScaleHandle	24	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ BezierScaleHandle.java
16	ChildHandler	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractCompositeFigure.java
17	DefaultApplicationModel	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\DefaultApplicationModel.java
18	DefaultDOMFactory	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\DefaultDOMFactory.java
19	DefaultDrawingView	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingView.java
20	DefaultInvoker	21	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\GenericListener.java
21	DiamondFigure	54	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DiamondFigure.java
22	Dimension2DDouble	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\Dimension2DDouble.java
23	DoubleStroke	86	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\DoubleStroke.java
24	DrawLiveConnectApplet	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java
25	DurationAdapter	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\figures\\TaskFigure.java
26	EllipseFigure	21	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ EllipseFigure.java
27	ExitAction	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ExitAction.java

28	ExtensionFileFilter	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ io\\ExtensionFileFilter.java
29	FormListener	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java
30	GenericListener	21	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\GenericListener.java
31	Geom	318	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\Geom.java
32	GraphicalCompositeFigure	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GraphicalCompositeFigure.java
33	ImageBevelBorder	22	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ImageBevelBorder.java
34	Insets2DDouble	26	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\Insets2DDouble.java
35	JavaxDOMInput	49	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\JavaxDOMInput.java
36	JavaxDOMOutput	67	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\JavaxDOMOutput.java
37	JSheet	90	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\JSheet.java
38	MDIDesktopPane	37	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\MDIDesktopPane.java
39	Methods	132	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ util\\Methods.java
40	NameAdapter	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\figures\\TaskFigure.java

41	NanoXMLDOMInput	42	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMInput.java
42	NanoXMLDOMOutput	70	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLDOMOutput.java
43	NanoXMMLiteDOMInput	42	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMMLiteDOMInput.java
44	NanoXMMLiteDOMOutput	70	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMMLiteDOMOutput.java
45	Node	197	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\BezierPath.java
46	NonValidator	37	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\NonValidator.java
47	PresentationFigureHandler	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GraphicalCompositeFigure.java
48	ProjectPropertyAction	13	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ProjectPropertyAction.java
49	RectangleFigure	21	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RectangleFigure.java
50	RedoAction	22	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ undo\\UndoRedoManager.java
51	ResourceBundleUtil	28	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ util\\ResourceBundleUtil.java
52	RoundRectangleFigure	33	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ RoundRectangleFigure.java
53	SheetEvent	16	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\event\\SheetEvent.java

54	StdXMLBuilder	26	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\StdXMLBuilder.java
55	StdXMLParser	31	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\StdXMLParser.java
56	StdXMLReader	24	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\StdXMLReader.java
57	SVGLiveConnectApplet	12	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGLiveConnectApplet.java
58	SVGUtil	33	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGUtil.java
59	TaskFigure	11	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\figures\\TaskFigure.java
60	TextAreaFigure	41	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TextAreaFigure.java
61	ToggleProjectProperty Action	14	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\ToggleProjectPropertyAction.java
62	ToolBarButtonFactory	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ToolBarButtonFactory.java
63	ToolBarPrefsHandler	10	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ util\\prefs\\ToolBarPrefsHandler.java
64	ToolButtonListener	15	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ToolBarButtonFactory.java
65	TriangleFigure	40	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ TriangleFigure.java
66	UndoAction	22	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ undo\\UndoRedoManager.java

67	UndoRedoManager	22	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ undo\\UndoRedoManager.java
68	ValidatorPlugin	49	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\ValidatorPlugin.java
69	VerticalGridLayout	71	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\VerticalGridLayout.java
70	XMLElement	154	\\JHotDraw 7.0.6\\src\\nanoxml\\XMLElement.java
71	XMLElement	87	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLElement.java
72	XMLEntityResolver	12	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLEntityResolver.java
73	XMLException	16	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLException.java
74	XMLParseException	15	\\JHotDraw 7.0.6\\src\\nanoxml\\XMLParseException.java
75	XMLValidationExceptio n	19	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLValidationException.java
76	XMLWriter	14	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLWriter.java

Data Clump

Sr. No	Class Name	Data Types	Class Path
1	Bezier	83	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\Bezier.java

2	DiamondFigure	54	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DiamondFigure.java
3	DoubleStroke	86	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\DoubleStroke.java
4	JavaxDOMInput	49	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\JavaxDOMInput.java
5	JavaxDOMOutput	67	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\JavaxDOMOutput.java
6	JSheet	90	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ gui\\JSheet.java
7	NanoXMLLiteDOMOutput	70	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ xml\\NanoXMLLiteDOMOutput.java
8	Node	197	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ geom\\BezierPath.java
9	ValidatorPlugin	49	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\ValidatorPlugin.java
10	VerticalGridLayout	71	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\VerticalGridLayout.java
11	XMLElement	154	\\JHotDraw 7.0.6\\src\\nanoxml\\XMLElement.java
12	XMLElement	87	\\JHotDraw 7.0.6\\src\\net\\n3\\nanoxml\\XMLElement.java

Parallel Inheritance Hierarchy

Sr. No	1 st Class Name	2 nd Class Name	1 st Class Path	2 nd Class Path
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Duplicate Code Class

Sr No	1 st Class Name	2 nd Class Name	Duplication %	1 st Class Path	2 nd Class Path	1 st Class LOC	2 nd Class LOC	Duplicate LOC
1	AbstractAttributedCompositeFigure	AttributedFigure	85.60311%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractAttributedCompositeFigure.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AttributedFigure.java	261	253	220
2	AbstractDrawing	AbstractFigure	43.31683%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractDrawing.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractFigure.java	244	564	175
3	AbstractFigure	AbstractHandle	59.88024%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractFigure.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractHandle.java	564	271	250
4	AbstractFigure	AbstractTool	40.22989%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractFigure.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractTool.java	564	306	175
5	AlignAction	East	72.22222%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java	160	20	65
6	AlignAction	Horizontal	72.22222%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java	160	20	65

7	AlignAction	North	72.22222%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	160	20	65
8	AlignAction	South	72.22222%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	160	20	65
9	AlignAction	Vertical	72.22222%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	160	20	65
10	AlignAction	West	72.22222%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	160	20	65
11	BezierScale Handle	RotateHandle	47.61905%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ BezierScaleHandle.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ RotateHandle.java	131	79	50
12	Bidirectiona lConnection Tool	ConnectionTo ol	71.32668%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ BidirectionalConnecti onTool.java	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ ConnectionTool.ja va	333	368	250
13	ChangeCon nectionEnd Handle	ChangeConne ctionStartHan dle	40.40404%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ ChangeConnectionEn dHandle.java	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ ChangeConnection StartHandle.java	50	49	20

14	ChildHandler	ChildHandler	69.44444%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractCompositeFigure.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ LabeledLineConnectionFigure.java	37	35	25
15	ChildHandler	PresentationFigureHandler	82.19178%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ AbstractCompositeFigure.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GraphicalCompositeFigure.java	37	36	30
16	ChildHandler	PresentationFigureHandler	70.42254%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ LabeledLineConnectionFigure.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ GraphicalCompositeFigure.java	35	36	25
17	CombineAction	SplitAction	56.91057%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\action\\CombineAction.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\action\\SplitAction.java	65	58	35
18	DefaultDrawingViewBeanInfo	DrawingPanelBeanInfo	94.48819%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingViewBeanInfo.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawingPanelBeanInfo.java	191	190	180
19	DefaultDrawingViewBeanInfo	JPopupButtonBeanInfo	94.48819%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingViewBeanInfo.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\JPopupButtonBeanInfo.java	191	190	180
20	DefaultDrawingViewBeanInfo	SVGPanelBeanInfo	94.48819%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ DefaultDrawingViewBeanInfo.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGP	191	190	180

				eanInfo.java	anelBeanInfo.java			
21	DrawApplet	DrawLiveConnectApplet	51.56951%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawApplet.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java	192	254	115
22	DrawApplet	NetApplet	85.9375%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawApplet.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetApplet.java	192	192	165
23	DrawApplet	PertApplet	85.49223%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawApplet.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplet.java	192	194	165
24	DrawApplet	SVGApplet	81.36483%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawApplet.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGApplet.java	192	189	155
25	DrawApplet	SVGLiveConnectApplet	47.94521%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawApplet.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGLiveConnectApplet.java	192	246	105
26	DrawingPanel	NetPanel	70.17544%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawingPanel.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetPanel.java	179	163	120

27	DrawingPanel	PertPanel	69.76744%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawingPanel.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertPanel.java	179	165	120
28	DrawingPanel	SVGPanel	65.57377%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawingPanel.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGPPanel.java	179	187	120
29	DrawingPanelBeanInfo	JPopupButtonBeanInfo	94.73684%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawingPanelBeanInfo.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\JPopupButtonBeanInfo.java	190	190	180
30	DrawingPanelBeanInfo	SVGPanelBeanInfo	97.36842%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawingPanelBeanInfo.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGPPanelBeanInfo.java	190	190	185
31	DrawLiveConnectApplet	NetApplet	47.0852%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetApplet.java	254	192	105
32	DrawLiveConnectApplet	PertApplet	46.875%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertApplet.java	254	194	105
33	DrawLiveConnectApplet	SVGApplet	47.40406%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGApplet.java	254	189	105

34	DrawLiveConnectApplet	SVGLiveConnectApplet	82%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawLiveConnectApplet.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGLiveConnectApplet.java	254	246	205
35	DrawProject	NetProject	68.96552%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawProject.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\net\\NetProject.java	202	233	150
36	DrawProject	PertProject	76.21247%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawProject.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\pert\\PertProject.java	202	231	165
37	DrawProject	SVGProject	74.44169%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\draw\\ DrawProject.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGPProject.java	202	201	150
38	DuplicateAction	SelectAllAction	65.21739%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\DuplicateAction.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ app\\action\\SelectAllAction.java	22	24	15
39	East	Horizontal	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java	20	20	10
40	East	North	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction	20	20	10

				a	.java			
41	East	South	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	20	20	10
42	East	Vertical	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	20	20	10
43	East	West	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	20	20	10
44	Horizontal	North	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	20	20	10
45	Horizontal	South	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	20	20	10
46	Horizontal	Vertical	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	20	20	10
47	Horizontal	West	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\	20	20	10

				action\AlignAction.java	action\AlignAction.java			
48	JavaxDOMInput	NanoXMLDOMInput	67.0194%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\JavaxDOMInput.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\NanoXMLDOMInput.java	302	265	190
49	JavaxDOMInput	NanoXMLLiteDOMInput	64.40072%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\JavaxDOMInput.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\NanoXMLLiteDOMInput.java	302	257	180
50	JavaxDOMOutput	NanoXMLDOMOutput	53.9629%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\JavaxDOMOutput.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\NanoXMLDOMOutput.java	292	301	160
51	JavaxDOMOutput	NanoXMLLiteDOMOutput	56.79862%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\JavaxDOMOutput.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\xml\\NanoXMLLiteDOMOutput.java	292	289	165
52	JPopupButtonBeanInfo	SVGPanelBeanInfo	94.73684%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\action\\JPopupButtonBeanInfo.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\draw\\samples\\svg\\SVGPanelBeanInfo.java	190	190	180
53	LoadRecentAction	OpenAction	60.43956%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\action\\LoadRecentAction.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\app\\action\\OpenAction.java	73	109	55
54	LoadRecentAction	OpenRecentAction	76.47059%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\	73	97	65

				app\action\LoadRecentAction.java	app\action\OpenRecentAction.java			
55	Main	Main	57.69231%	\JHotDraw 7.0.6\src\org\jhotdraw\samples\draw\Main.java	\JHotDraw 7.0.6\src\org\jhotdraw\samples\net\Main.java	26	26	15
56	Main	Main	57.69231%	\JHotDraw 7.0.6\src\org\jhotdraw\samples\draw\Main.java	\JHotDraw 7.0.6\src\org\jhotdraw\samples\pert\Main.java	26	26	15
57	Main	Main	57.69231%	\JHotDraw 7.0.6\src\org\jhotdraw\samples\net\Main.java	\JHotDraw 7.0.6\src\org\jhotdraw\samples\pert\Main.java	26	26	15
58	MaximizeAction	MinimizeAction	40.81633%	\JHotDraw 7.0.6\src\org\jhotdraw\app\action\MaximizeAction.java	\JHotDraw 7.0.6\src\org\jhotdraw\app\action\MinimizeAction.java	25	24	10
59	NanoXMLDOMInput	NanoXMLLiteDOMInput	86.20689%	\JHotDraw 7.0.6\src\org\jhotdraw\xml\NanoXMLDOMInput.java	\JHotDraw 7.0.6\src\org\jhotdraw\xml\NanoXMLLiteDOMInput.java	265	257	225
60	NanoXMLDOMOutput	NanoXMLLiteDOMOutput	96.61017%	\JHotDraw 7.0.6\src\org\jhotdraw\xml\NanoXMLDOMOutput.java	\JHotDraw 7.0.6\src\org\jhotdraw\xml\NanoXMLLiteDOMOutput.java	301	289	285
61	NetApplet	PertApplet	85.49223%	\JHotDraw 7.0.6\src\org\jhotdraw\	\JHotDraw 7.0.6\src\org\jhotdraw\	192	194	165

				samples\net\NetApplet.java	samples\pert\PertApplet.java			
62	NetApplet	SVGApplet	81.36483%	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\net\NetApplet.java	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\svg\SVGApplet.java	192	189	155
63	NetApplet	SVGLiveConnectApplet	47.94521%	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\net\NetApplet.java	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\svg\SVGLiveConnectApplet.java	192	246	105
64	NetApplicationModel	PertApplicationModel	74.20495%	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\net\NetApplicationModel.java	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\pert\PertApplicationModel.java	140	143	105
65	NetPanel	PertPanel	76.21951%	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\net\NetPanel.java	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\pert\PertPanel.java	163	165	125
66	NetPanel	SVGPanel	71.42857%	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\net\NetPanel.java	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\svg\SVGPanel.java	163	187	125
67	NetProject	PertProject	68.96552%	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\net\NetProject.java	\JHotDraw 7.0.6\src\org\jhotdraw\ samples\pert\PertProject.java	233	231	160

68	NetProject	SVGProject	64.51613%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ samples\\net\\NetProje ct.java	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ samples\\svg\\SVGP roject.java	233	201	140
69	North	South	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	20	20	10
70	North	Vertical	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	20	20	10
71	North	West	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ action\\AlignAction.jav a	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ action\\AlignAction .java	20	20	10
72	OpenAction	OpenRecentA ction	63.1068%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ app\\action\\OpenActio n.java	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ app\\action\\OpenR ecentAction.java	109	97	65
73	PertApplet	SVGApplet	80.93995%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ samples\\pert\\PertApp plet.java	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ samples\\svg\\SVGA pplet.java	194	189	155
74	PertApplet	SVGLiveConn ectApplet	47.72727%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ samples\\pert\\PertApp plet.java	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ samples\\svg\\SVGLi veConnectApplet.j	194	246	105

					ava			
75	PertPanel	SVGPanel	71.02273%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ samples\\pert\\PertPan el.java	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ samples\\svg\\SVGP anel.java	165	187	125
76	PertProject	SVGProject	67.12963%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ samples\\pert\\PertProj ect.java	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ samples\\svg\\SVGP roject.java	231	201	145
77	ProjectProp ertyAction	ToggleProject PropertyActio n	52.32558%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ app\\action\\ProjectPro pertyAction.java	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ app\\action\\Toggle ProjectPropertyAc tion.java	74	98	45
78	QuadNode	QuadTree2D Double	76.14214%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ geom\\QuadTree2DDo uble.java	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ geom\\QuadTree2 DDouble.java	154	240	150
79	RedoAction	UndoAction	69.23077%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ app\\action\\RedoActio n.java	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ app\\action\\UndoA ction.java	65	65	45
80	RelativeDec oratorLocat or	RelativeLocat or	40.81633%	\\JHotDraw 7.0.6\\src\\org\\jhotdra w\\ draw\\ RelativeDecoratorLoc ator.java	\\JHotDraw 7.0.6\\src\\org\\jhot draw\\ draw\\ RelativeLocator.jav a	94	102	40

81	RunnableWorker	Worker	62.5%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\RunnableWorker.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ util\\Worker.java	44	52	30
82	South	Vertical	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ draw\\ action\\AlignAction.java	20	20	10
83	South	West	50%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\AlignAction.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ draw\\ action\\AlignAction.java	20	20	10
84	SVGApplet	SVGLiveConnectApplet	52.87356%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGApplet.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ samples\\svg\\SVGLiveConnectApplet.java	189	246	115
85	ToolBarButtonListener	ToolBarButtonListener	76.92308%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ToolBarButtonFactory.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ samples\\net\\NetApplicationModel.java	13	13	10
86	ToolBarButtonListener	ToolBarButtonListener	76.92308%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ action\\ToolBarButtonFactory.java	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\ draw\\ samples\\pert\\PertApplicationModel.java	13	13	10
87	ToolBarButtonListener	ToolBarButtonListener	76.92308%	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\	\\JHotDraw 7.0.6\\src\\org\\jhotdraw\\	13	13	10

				samples\net\NetApplicationModel.java	samples\pert\PertApplicationModel.java			
88	Vertical	West	50%	\JHotDraw 7.0.6\src\org\jhotdraw\ draw\ action\AlignAction.java	\JHotDraw 7.0.6\src\org\jhotdraw\ draw\ draw\ action\AlignAction.java	20	20	10