**StdDraw reference sheet**

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| [**arc**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#arc-double-double-double-double-double-)(double x, double y, double radius, double angle1, double angle2)  Draws a circular arc of the specified radius, centered at (*x*, *y*), from angle1 to angle2 (in degrees). |
| **[circle](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html" \l "circle-double-double-double-)**(double x, double y, double radius)  Draws a circle of the specified radius, centered at (*x*, *y*). |
| **[clear](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html" \l "clear--)**()  Clears the screen to the default color (white). |
| [**ellipse**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#ellipse-double-double-double-double-)(double x, double y, double semiMajorAxis, double semiMinorAxis)  Draws an ellipse with the specified semimajor and semiminor axes, centered at (*x*, *y*). |
| [**filledCircle**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#filledCircle-double-double-double-)(double x, double y, double radius)  Draws a filled circle of the specified radius, centered at (*x*, *y*). |
| [**filledEllipse**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#filledEllipse-double-double-double-double-)(double x, double y, double semiMajorAxis, double semiMinorAxis)  Draws a filled ellipse with the specified semimajor and semiminor axes, centered at (*x*, *y*). |
| [**filledPolygon**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#filledPolygon-double:A-double:A-)(double[] x, double[] y)  Draws a filled polygon with the vertices (*x*0, *y*0), (*x*1, *y*1), ..., (*xn*–1, *yn*–1). |
| [**filledRectangle**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#filledRectangle-double-double-double-double-)(double x, double y, double halfWidth, double halfHeight)  Draws a filled rectangle of the specified size, centered at (*x*, *y*). |
| [**filledSquare**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#filledSquare-double-double-double-)(double x, double y, double halfLength)  Draws a filled square of the specified size, centered at (*x*, *y*). |
| [**hasNextKeyTyped**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#hasNextKeyTyped--)()  Returns true if the user has typed a key (that has not yet been processed). |
| [**isMousePressed**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#isMousePressed--)()  Returns true if the mouse is being pressed. |
| [**line**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#line-double-double-double-double-)(double x0, double y0, double x1, double y1)  Draws a line segment between (*x*0, *y*0) and (*x*1, *y*1). |
| [**mouseX**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#mouseX--)()  Returns the *x*-coordinate of the mouse as a double. |
| [**mouseY**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#mouseY--)()  Returns the *y*-coordinate of the mouse as a double. |
| [**nextKeyTyped**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#nextKeyTyped--)()  Returns the next key that was typed by the user (that your program has not already processed) as a char. |
| [**pause**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#pause-int-)(int t)  Pauses for t milliseconds. |
| [**picture**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#picture-double-double-java.lang.String-)(double x, double y, [**String**](https://docs.oracle.com/javase/6/docs/api/java/lang/String.html?is-external=true) filename)  Draws the specified image centered at (*x*, *y*). |
| [**point**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#point-double-double-)(double x, double y)  Draws a point centered at (*x*, *y*). |
| [**polygon**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#polygon-double:A-double:A-)(double[] x, double[] y)  Draws a polygon with the vertices (*x*0, *y*0), (*x*1, *y*1), ..., (*xn*–1, *yn*–1). |
| [**rectangle**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#rectangle-double-double-double-double-)(double x, double y, double halfWidth, double halfHeight)  Draws a rectangle of the specified size, centered at (*x*, *y*). |
| [**setPenColor**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#setPenColor-int-int-int-)(int red, int green, int blue)  Sets the pen color to the specified RGB color. |
| [**setPenRadius**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#setPenRadius-double-)(double radius)  Sets the radius of the pen to the specified size.  0.002 is the default (1 pixel). 0.004 would be 2 pixels. Not subject to canvas scaling. |
| [**square**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#square-double-double-double-)(double x, double y, double halfLength)  Draws a square of the specified size, centered at (*x*, *y*). |
| [**text**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#text-double-double-java.lang.String-)(double x, double y, [**String**](https://docs.oracle.com/javase/6/docs/api/java/lang/String.html?is-external=true) text)  Writes the given text string in the current font, centered at (*x*, *y*). |
| [**textLeft**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#textLeft-double-double-java.lang.String-)(double x, double y, [**String**](https://docs.oracle.com/javase/6/docs/api/java/lang/String.html?is-external=true) text)  Writes the given text string in the current font, left-aligned at (*x*, *y*). |
| [**textRight**](https://introcs.cs.princeton.edu/java/stdlib/javadoc/StdDraw.html#textRight-double-double-java.lang.String-)(double x, double y, [**String**](https://docs.oracle.com/javase/6/docs/api/java/lang/String.html?is-external=true) text)  Writes the given text string in the current font, right-aligned at (*x*, *y*). |