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DETAIL: FIELD | CONSTR | METHOD

TurtleGraphics

Interface Pen

All Known Implementing Classes:

AbstractPen, BackwardPen, RainbowPen, StandardPen, WigglePen, WiggleRainbowPen

public interface Pen

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The behavior of all pens.

Method Summary	
void	Action: The pen lowers itself to the drawing surface.
void	drawString(java.lang.String text) Action: Draws the string at the pen's position.
void	The pen jumps to the center of the graphics window without drawing and points north.
void	Move (double distance) Action: The pen moves the specified distance in the current direction.
void	$\frac{\text{move}}{\text{Action: Moves the pen to the position } (x, y).}$
void	setColor(java.awt.Color color) Action: Sets the pen's color to the specified color.
void	setDirection (double direction) Action: The pen points in the indicated direction.
void	SetWidth (int width) Action: Sets the pen's width to the specified width (the default width is 2 pixels).
java.lang.String	Action: Returns information about the pen's state.
void	turn (double degrees) Action: The pen adds the indicated degrees to its current direction.
void	Action: The pen raises itself from the drawing surface.

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Method Detail

down

```
void down()
```

Action: The pen lowers itself to the drawing surface.

drawString

```
void drawString(java.lang.String text)
```

Action: Draws the string at the pen's position.

home

```
void home()
```

The pen jumps to the center of the graphics window without drawing and points north.

move

```
void move(double distance)
```

Action: The pen moves the specified distance in the current direction. The distance can be an integer or floating-point number and is measured in pixels (picture elements). The size of a pixel depends on the monitor \tilde{O} s resolution. For instance, when we say that a monitor's resolution is 800 by 600, we mean that the monitor is 800 pixels wide and 600 pixels high.

move

Action: Moves the pen to the position (x, y).

setColor

```
void setColor(java.awt.Color color)
```

Action: Sets the pen's color to the specified color.

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setDirection

void setDirection(double direction)

Action: The pen points in the indicated direction. Due east corresponds to 0 degrees, north to 90 degrees, west to 180 degrees, and south to 270 degrees. Because there are 360 degrees in a circle, setting the direction to 400 would be equivalent to 400 - 360 or 40 and setting it to -30 would be equivalent to 360 - 30 or 330. Example: pen.setDirection(90); Make the pen point due north.

setWidth

void setWidth(int width)

Action: Sets the pen's width to the specified width (the default width is 2 pixels).

toString

java.lang.String toString()

Action: Returns information about the pen's state.

Overrides:

toString in class java.lang.Object

turn

void turn(double degrees)

Action: The pen adds the indicated degrees to its current direction. Positive degrees correspond to turning counterclockwise. The degrees can be an integer or floating-point number. Example: pen.turn(-45); Rotate the pen 45 degrees clockwise.

up

void up()

Action: The pen raises itself from the drawing surface.

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