



## + Mouse Global variables

### mousePressed

```
// Click within the image to change  
// the value of the rectangle  
void draw() {  
    if (mousePressed == true) {  
        fill(0);  
    } else {  
        fill(255);  
    }  
    rect(25, 25, 50, 50);  
}
```

## + Mouse Global variables

### mouseButton

```
// Click within the image and press  
// the left and right mouse buttons to  
// change the value of the rectangle  
void draw() {  
    if (mousePressed && (mouseButton == LEFT)) {  
        fill(0);  
    } else if (mousePressed && (mouseButton == RIGHT)) {  
        fill(255);  
    } else {  
        fill(126);  
    }  
    rect(25, 25, 50, 50);  
}
```

## + Mouse Global variables

**mouseX, mouseY, pmouseX, and pmouseY**

```
// Move the mouse quickly to see the difference
// between the current and previous position
void draw() {
    background(204);
    line(mouseX, 20, pmouseX, 80);
    println(mouseX + " : " + pmouseX);
    line(20, mouseY, 80, pmouseY);
    println(mouseY + " : " + pmouseY);
}
```

## + Mouse functions to override

**mousePressed()**

```
// Click within the image to change
// the value of the rectangle
int value = 0;
void draw() {
    fill(value);
    rect(25, 25, 50, 50);
}
void mousePressed() {
    if (value == 0) {
        value = 255;
    } else {
        value = 0;
    }
}
```



## Mouse functions to override

```
mouseReleased()  
  
// Click within the image to change  
// the value of the rectangle  
  
int value = 0;  
  
void draw() {  
    fill(value);  
    rect(25, 25, 50, 50);  
}  
  
void mouseReleased() {  
    if (value == 0) {  
        value = 255;  
    } else {  
        value = 0;  
    }  
}
```



## Mouse functions to override

```
mouseClicked()  
  
// Click within the image to change  
// the value of the rectangle  
  
int value = 0;  
  
void draw() {  
    fill(value);  
    rect(25, 25, 50, 50);  
}  
  
void mouseClicked() {  
    if (value == 0) {  
        value = 255;  
    } else {  
        value = 0;  
    }  
}
```



## Mouse functions to override

### mouseDragged()

```
// Drag (click and hold) your mouse across the  
// image to change the value of the rectangle  
  
int value = 0;  
  
void draw() {  
    fill(value);  
    rect(25, 25, 50, 50);  
}  
  
void mouseDragged()  
{  
    value = value + 5;  
    if (value > 255) {  
        value = 0;  
    }  
}
```



## Mouse functions to override

### mouseMoved()

```
// Move your mouse across the  
// image to change the value of the rectangle  
  
int value = 0;  
  
void draw() {  
    fill(value);  
    rect(25, 25, 50, 50);  
}  
  
void mouseMoved()  
{  
    value = value + 5;  
    if (value > 255) {  
        value = 0;  
    }  
}
```

## + Keyboard Input

Keyboard

<b>Global Variables</b>	→ <b>key</b> → <b>keyCode</b> <b>void keyPressed()</b> ← → <b>keyPressed</b> <b>void keyReleased()</b> ← <b>void keyTyped()</b> ←	<b>Functions to override</b>
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## + Keyboard Global variables

key and keyPressed

```
// Click on the window to give it focus,
// and press the 'B' key.

void draw() {
  if (keyPressed) {
    if (key == 'b' || key == 'B') {
      fill(0);
    }
  } else {
    fill(255);
  }
  rect(25, 25, 50, 50);
}
```



## Keyboard Global variables

```
keyCode and overriding keyPressed()  
  
color fillVal = color(126);  
  
void draw() {  
    fill(fillVal);  
    rect(25, 25, 50, 50);  
}  
  
void keyPressed() {  
    if (key == CODED) {  
        if (keyCode == UP) {  
            fillVal = 255;  
        } else if (keyCode == DOWN) {  
            fillVal = 0;  
        }  
    } else {  
        fillVal = 126;  
    }  
}
```