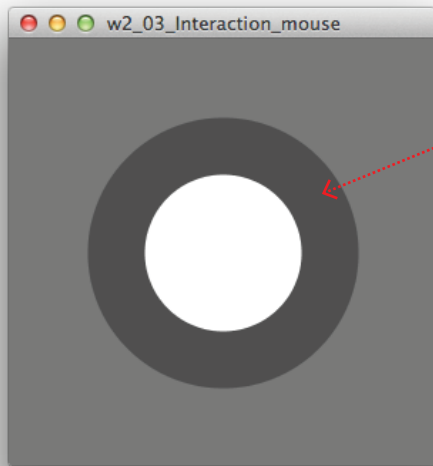
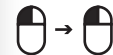


[Basic Mouse Interaction]



Normal
Left button pressed



Mouse Dragged

In/Decrease strokeWeight according to mouseX position while left mouse button is pressed and dragged.

```
void mouseDragged() {
  strokeWeightValue = mouseX/10;
}
```

* **mousePressed** is a system variable. mousePressed is true if a mouse button is pressed and false if no button is pressed.

```
if(mousePressed){
  strokeColorValue = 50 + mouseY/5;
}
```

Change Circle size from 150 to 50 pixels. It occurs once when mouse button is pressed.

```
void mousePressed() {
  circleWidth = 150;
}
```

The **mousePressed()** function is called every time a mouse button is pressed.

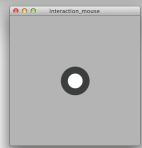
Change Circle size from 60 to 150 pix. It occurs once when the mouse button is released.

```
void mouseReleased() {
  circleWidth = 50;
}
```

The **mouseReleased()** function is called every time a mouse button is released.

Switch background color from 180 to 120. It occurs once when mouse button clicked. *Click : pressed and released

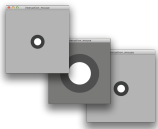
```
void mouseClicked() {
  if (backgroundValue == 120) {
    backgroundValue = 180;
  }else{
    backgroundValue = 120;
  }
}
```



↓ Mouse Pressed



↑ Mouse Released



↓↑ Mouse Clicked

```
float circleWidth;
float backgroundValue;
float strokeColorValue;
float strokeValue;

void setup() {
  size(300, 300);
  circleWidth = 150;
  backgroundValue = 120;
  strokeColorValue = 40;
  strokeValue = 80;
}

void draw() {
  background(backgroundValue);
  stroke(strokeColorValue);
  strokeWeight(strokeValue);
  ellipse(150, 150, circleWidth, circleWidth);
}

if(mousePressed){
  strokeColorValue = 50 + mouseY/5;
}

void mousePressed() {
  circleWidth = 150;
}

void mouseReleased() {
  circleWidth = 50;
}

void mouseClicked() {
  if (backgroundValue == 120) {
    backgroundValue = 180;
  }else{
    backgroundValue = 120;
  }
}

void mouseDragged(){
  strokeWeightValue = mouseX/10;
}
```

```
float circleWidth;
float backgroundValue;

void setup() {
  size(300, 300);
  circleWidth = 50;
  backgroundValue = 120;
}

void draw() {
  background(backgroundValue);
  noStroke();
  ellipse(150, 150, circleWidth, circleWidth);
}

if (keyPressed) {
  if (key == 'a') {
    backgroundValue ++;
  }else if (key == 's') {
    backgroundValue --;
  }
}

void keyPressed() {
  if (key == 'a') {
    circleWidth = 150;
    println("pressed " + int(key) + " " + keyCode);
  }
}

void keyReleased() {
  if (key == 'a') {
    circleWidth = 50;
    println("Released " + int(key) + " " + keyCode);
  }
}

Done Saving.
pressed 32 32
pressed 32 32
Released 32 32
7
```

[Basic Keyboard Interaction]

Normal Keyboard pressed Keyboard released

* **keyPressed** is a system variable. "keyPressed" is true if a keyboard button is pressed and false if a keyboard is not pressed.

In this sketch the background color becomes darker when keyboard 's' is pressed, and become lighter when keyboard 'a' is pressed.

```
if (keyPressed) {
  if (key == 'a') {
    backgroundValue ++;
  }else if (key == 's') {
    backgroundValue --;
  }
}
```

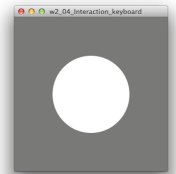


Keyboard Pressed

Change Circle size to 150 when key 'c' is pressed.

```
void keyPressed() {
  circleWidth = 150;
}
```

The **keyPressed()** function is called every time a key is pressed.



Keyboard Released

Change Circle size to 50 when key 'c' is released.

```
void keyReleased() {
  circleWidth = 50;
}
```

The **keyReleased()** function is called every time a key is released.

