

## Examples



```
function setup() {
  createCanvas(100, 100);

  background(50);

  // Use HSB color.
  colorMode(HSB);

  // Create a p5.Color object.
  let c = color(0, 50, 100);

  // Draw the left rectangle.
  noStroke();
  fill(c);
  rect(15, 15, 35, 70);

  // Set 'satValue' to 50.
  let satValue = saturation(c);

  // Draw the right rectangle.
  fill(satValue);
  rect(50, 15, 35, 70);

  describe('Two rectangles. The left one is salmon pink and the right one is dark gray.');
```



```
function setup() {
  createCanvas(100, 100);

  background(50);

  // Use HSB color.
  colorMode(HSB);

  // Create a color array.
  let c = [0, 50, 100];

  // Draw the left rectangle.
  noStroke();
  fill(c);
  rect(15, 15, 35, 70);

  // Set 'satValue' to 100.
  let satValue = saturation(c);

  // Draw the right rectangle.
  fill(satValue);
  rect(50, 15, 35, 70);

  describe('Two rectangles. The left one is salmon pink and the right one is gray.');
```



```
function setup() {
  createCanvas(100, 100);

  background(50);

  // Use HSB color.
  colorMode(HSB);

  // Create a CSS color string.
  let c = 'rgb(255, 128, 128)';

  // Draw the left rectangle.
  noStroke();
  fill(c);
  rect(15, 15, 35, 70);

  // Set 'satValue' to 100.
  let satValue = saturation(c);

  // Draw the right rectangle.
  fill(satValue);
  rect(50, 15, 35, 70);

  describe('Two rectangles. The left one is salmon pink and the right one is gray.');
```



```
function setup() {
  createCanvas(100, 100);

  background(50);

  // Use HSL color.
  colorMode(HSL);

  // Create a p5.Color object.
  let c = color(0, 100, 75);

  // Draw the left rectangle.
  noStroke();
  fill(c);
  rect(15, 15, 35, 70);

  // Set 'satValue' to 100.
  let satValue = saturation(c);

  // Draw the right rectangle.
  fill(satValue);
  rect(50, 15, 35, 70);

  describe('Two rectangles. The left one is salmon pink and the right one is white.');
```



```
function setup() {
  createCanvas(100, 100);

  background(50);

  // Use HSL color with values in the range 0-255.
  colorMode(HSL, 255);

  // Create a p5.Color object.
  let c = color(0, 255, 191.5);

  // Draw the left rectangle.
  noStroke();
  fill(c);
  rect(15, 15, 35, 70);

  // Set 'satValue' to 255.
  let satValue = saturation(c);

  // Draw the right rectangle.
  fill(satValue);
  rect(50, 15, 35, 70);

  describe('Two rectangles. The left one is salmon pink and the right one is white.');
```

## Syntax

saturation(color)

## Parameters

color p5.Color|Number[]|String: **p5.Color** object, array of color components, or CSS color string.

## Returns

Number: the saturation value

This page is generated from the comments in [src/color/creating\\_reading.js](#). Please feel free to edit it and submit a pull request!

## Related References

<b>setAlpha</b> Sets the alpha (transparency) value of a color.	<b>setBlue</b> Sets the blue component of a color.	<b>setGreen</b> Sets the green component of a color.	<b>setRed</b> Sets the red component of a color.
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