

Reference > red()

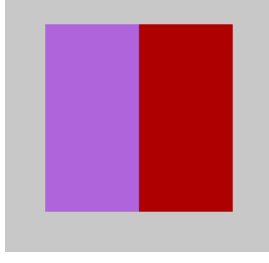
red()

Gets the red value of a color.

`red()` extracts the red value from a `p5.Color` object, an array of color components, or a CSS color string.

By default, `red()` returns a color's red value in the range 0 to 255. If the `colorMode()` is set to RGB, it returns the red value in the given range.

Examples



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

  background(200);

  // Create a p5.Color object.
  let c = color(175, 100, 220);

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

  // Set 'redValue' to 175.
  let redValue = red(c);

  // Draw the right rectangle.
  fill(redValue, 0, 0);
  rect(50, 15, 35, 70);

  describe('Two rectangles. The left one is light purple and the right one is red.');
```

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

  background(200);

  // Create a color array.
  let c = [175, 100, 220];

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

  // Set 'redValue' to 175.
  let redValue = red(c);

  // Draw the right rectangle.
  fill(redValue, 0, 0);
  rect(50, 15, 35, 70);

  describe('Two rectangles. The left one is light purple and the right one is red.');
```

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

  background(200);

  // Create a CSS color string.
  let c = 'rgb(175, 100, 220)';

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

  // Set 'redValue' to 175.
  let redValue = red(c);

  // Draw the right rectangle.
  fill(redValue, 0, 0);
  rect(50, 15, 35, 70);

  describe('Two rectangles. The left one is light purple and the right one is red.');
```

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

  background(200);

  // Use RGB color with values in the range 0-100.
  colorMode(RGB, 100);

  // Create a p5.Color object.
  let c = color(69, 39, 86);

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

  // Set 'redValue' to 69.
  let redValue = red(c);

  // Draw the right rectangle.
  fill(redValue, 0, 0);
  rect(50, 15, 35, 70);

  describe('Two rectangles. The left one is light purple and the right one is red.');
```

Syntax

```
red(color)
```

Parameters

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

Returns

Number: the red 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

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