

Examples

```
let img;

// Load the image.
function preload() {
  img = loadImage('/assets/bricks.jpg');
}

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

  // Display the image.
  image(img, 0, 0);

  // Apply the INVERT filter.
  filter(INVERT);

  describe('A blue brick wall.');
```

```
let img;

// Load the image.
function preload() {
  img = loadImage('/assets/bricks.jpg');
}

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

  // Display the image.
  image(img, 0, 0);

  // Apply the GRAY filter.
  filter(GRAY);

  describe('A brick wall drawn in grayscale.');
```

```
let img;

// Load the image.
function preload() {
  img = loadImage('/assets/bricks.jpg');
}

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

  // Display the image.
  image(img, 0, 0);

  // Apply the THRESHOLD filter.
  filter(THRESHOLD);

  describe('A brick wall drawn in black and white.');
```

```
let img;

// Load the image.
function preload() {
  img = loadImage('/assets/bricks.jpg');
}

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

  // Display the image.
  image(img, 0, 0);

  // Apply the OPAQUE filter.
  filter(OPAQUE);

  describe('A red brick wall.');
```

```
let img;

// Load the image.
function preload() {
  img = loadImage('/assets/bricks.jpg');
}

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

  // Display the image.
  image(img, 0, 0);

  // Apply the POSTERIZE filter.
  filter(POSTERIZE, 3);

  describe('An image of a red brick wall drawn with limited color palette.');
```

```
let img;

// Load the image.
function preload() {
  img = loadImage('/assets/bricks.jpg');
}

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

  // Display the image.
  image(img, 0, 0);

  // Apply the BLUR filter.
  filter(BLUR, 3);

  describe('A blurry image of a red brick wall.');
```

```
let img;

// Load the image.
function preload() {
  img = loadImage('/assets/bricks.jpg');
}

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

  // Display the image.
  image(img, 0, 0);

  // Apply the DILATE filter.
  filter(DILATE);

  describe('A red brick wall with bright lines between each brick.');
```

```
let img;

// Load the image.
function preload() {
  img = loadImage('/assets/bricks.jpg');
}

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

  // Display the image.
  image(img, 0, 0);

  // Apply the ERODE filter.
  filter(ERODE);

  describe('A red brick wall with faint lines between each brick.');
```

```
let img;

// Load the image.
function preload() {
  img = loadImage('/assets/bricks.jpg');
}

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

  // Display the image.
  image(img, 0, 0);

  // Apply the BLUR filter.
  // Don't use WebGL.
  filter(BLUR, 3, false);

  describe('A blurry image of a red brick wall.');
```

Syntax

filter(filterType, [filterParam], [useWebGL])

filter(filterType, [useWebGL])

filter(shaderFilter)

Parameters

filterType	Constant: either THRESHOLD, GRAY, OPAQUE, INVERT, POSTERIZE, BLUR, ERODE, DILATE or BLUR.
filterParam	Number: parameter unique to each filter.
useWebGL	Boolean: flag to control whether to use fast WebGL filters (GPU) or original image filters (CPU); defaults to true.
shaderFilter	p5.Shader: shader that's been loaded, with the frag shader using a <code>tex0</code> uniform.

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

Related References

blend Copies a region of pixels from one image to another.	copy Copies pixels from a source image to a region of the canvas.	filter Applies an image filter to the canvas.	get Gets a pixel or a region of pixels from the canvas.
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