

textBounds()

Returns the bounding box for a string of text written using the font.

The bounding box is the smallest rectangle that can contain a string of text. `font.textBounds()` returns an object with the bounding box's location and size. For example, calling `font.textBounds('p5*js', 5, 20)` returns an object in the format `{ x: 5.7, y: 12.1, w: 9.9, h: 28.6 }`. The `x` and `y` properties are always the coordinates of the bounding box's top-left corner.

The first parameter, `str`, is a string of text. The second and third parameters, `x` and `y`, are the text's position. By default, they set the coordinates of the bounding box's bottom-left corner. See `textAlign()` for more ways to align text.

The fourth parameter, `fontSize`, is optional. It sets the font size used to determine the bounding box. By default, `font.textBounds()` will use the current `textSize()`.

Examples



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```
let font;

function preload() {
  font = loadFont('/assets/inconsolata.otf');
}

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

  background(200);

  // Display the bounding box.
  let bbox = font.textBounds('p5*js', 35, 53);
  rect(bbox.x, bbox.y, bbox.w, bbox.h);

  // Style the text.
  textFont(font);

  // Display the text.
  text('p5*js', 35, 53);

  describe('The text "p5*js" written in black inside a white rectangle.');
```

▶

■

```
let font;

function preload() {
  font = loadFont('/assets/inconsolata.otf');
}

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

  background(200);

  // Style the text.
  textFont(font);
  textSize(15);
  textAlign(CENTER, CENTER);

  // Display the bounding box.
  let bbox = font.textBounds('p5*js', 50, 50);
  rect(bbox.x, bbox.y, bbox.w, bbox.h);

  // Display the text.
  text('p5*js', 50, 50);

  describe('The text "p5*js" written in black inside a white rectangle.');
```

▶

■

```
let font;

function preload() {
  font = loadFont('/assets/inconsolata.otf');
}

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

  background(200);

  // Display the bounding box.
  let bbox = font.textBounds('p5*js', 31, 53, 15);
  rect(bbox.x, bbox.y, bbox.w, bbox.h);

  // Style the text.
  textFont(font);
  textSize(15);

  // Display the text.
  text('p5*js', 31, 53);

  describe('The text "p5*js" written in black inside a white rectangle.');
```

Syntax

```
textBounds(str, x, y, [fontSize])
```

Parameters

<code>str</code>	String: string of text.
<code>x</code>	Number: x-coordinate of the text.
<code>y</code>	Number: y-coordinate of the text.
<code>fontSize</code>	Number: font size. Defaults to the current <code>textSize()</code> .

Returns

Object: object describing the bounding box with properties `x`, `y`, `w`, and `h`.

This page is generated from the comments in `src/typography/p5.Font.js`. Please feel free to edit it and submit a pull request!

Related References

font The font's underlying opentype.js font object.	textBounds Returns the bounding box for a string of text written using the font.	textToPoints Returns an array of points outlining a string of text written using the font.	image Draws an image to the canvas.
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