p5*js

Reference
Tutorials
Examples
Contribute
Community
About

</> Start Coding

♡ Donate

🌐 English ⌄   ⚏ Accessibility ⌄   🔍 Search
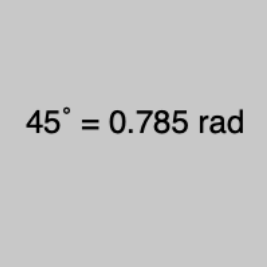
Reference › radians()

radians()

Converts an angle measured in degrees to its value in radians.

Degrees and radians are both units for measuring angles. There are 360° in one full rotation. A full rotation is 2 × π (about 6.28) radians.

The same angle can be expressed in with either unit. For example, 90° is a quarter of a full rotation. The same angle is 2 × π ÷ 4 (about 1.57) radians.

Examples

▶ ■

45° = 0.785 rad

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

  background(200);

  // Calculate the angle conversion.
  let deg = 45;
  let rad = radians(deg);

  // Display the angle conversion.
  text(`${deg}° = ${round(rad, 3)} rad`, 10, 50);

  describe('The text "45° = 0.785 rad".');
}
```

Syntax

```
radians(degrees)
```

Parameters

degrees   Number: degree value to convert to radians.

Returns

Number: converted angle.

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

Related References

acos
Calculates the arc cosine of a number.

angleMode
Changes the unit system used to measure angles.

asin
Calculates the arc sine of a number.

atan
Calculates the arc tangent of a number.

p5.js

Resources
Reference
Tutorials
Examples
Contribute
Community
About
Start Coding
Donate

Information
Download
Contact
Copyright
Privacy Policy
Terms of Use

Socials
GitHub ↗
Instagram ↗
X ↗
YouTube ↗
Discord ↗
Forum ↗

Donate Today! Support p5.js and the Processing Foundation.   ✕