

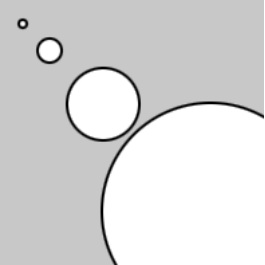
Reference > pow()

# pow()

Calculates exponential expressions such as 2<sup>3</sup>.

For example, `pow(2, 3)` evaluates the expression 2 × 2 × 2. `pow(2, -3)` evaluates 1 ÷ (2 × 2 × 2).

## Examples



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

  background(200);

  // Set the base of the exponent.
  let base = 3;

  // Top-left.
  let d = pow(base, 1);
  circle(10, 10, d);

  // Left-center.
  d = pow(base, 2);
  circle(20, 20, d);

  // Right-center.
  d = pow(base, 3);
  circle(40, 40, d);

  // Bottom-right.
  d = pow(base, 4);
  circle(80, 80, d);

  describe('A series of circles that grow exponentially from top left to bottom right.');
```

## Syntax

```
pow(n, e)
```

## Parameters

- n

Number: base of the exponential expression.
- e

Number: power by which to raise the base.

## Returns

Number: n^e.

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

## Related References

<b>abs</b> Calculates the absolute value of a number.	<b>ceil</b> Calculates the closest integer value that is greater than or equal to a number.	<b>constrain</b> Constrains a number between a minimum and maximum value.	<b>dist</b> Calculates the distance between two points.
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p5.js

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