this in javascript

> Source: https://www.tutorialstonight.com/js/this-in-javascript.php

AGENDA

1. Overview
2. this in global context
3. this in function context
4. this in arrow function
5. this in a method
6. this in an event (later)
7. this in class context (later)

1. Overview

- this = current execution context
- this can be different in strict and non-strict mode
- this has different value depending on where it is used:

In	this refers to
alone / outside function	global object
normal function in strict mode	undefined
normal function	depends on how the func is called, default to global object
arrow function	lexical this / this from outer normal function
a method	owner object
an event	an element that received the event

--> ko hiểu 🤣

2. this in global context

> Source: https://youtu.be/YOlr79NaAtQ

```javascript
// browser
console.log(this); // window object
console.log(this === window); // true

this.name = 'Easy Frontend';
console.log(window.name); // 'Easy Frontend'
```

```javascript
// nodejs
console.log(this); // global object
console.log(this === global); // true

this.name = 'Easy Frontend';
console.log(global.name); // 'Easy Frontend'
```

3. this in normal function

```javascript
// non-strict mode
function sayHello() {
  console.log(this); // window or global
}

// anonymous function
[1, 2, 3].forEach(function(number) {
  console.log(this); // window or global
})
```

```
'use strict'
function sayHello() {
  console.log(this); // undefined
}
                                              3 / 4
// anonymous function
[1, 2, 3].forEach(function(number) {
  console.log(this); // undefined
})
```

4. this in arrow function

- arrow function doesn't have it own this.
- this from outer normal function

```
const sayHello = () => {
  console.log(this); // window or global
}
```

```
'use strict'
function sayHello() {
  console.log(this); // undefined

  const getLanguage = () => {
    console.log(this); // same as this from outer normal function
  }

  getLanguage();
}
```

5. this in a method

```
const student = {
  name: 'Bob',
  sayHello: function() {
    console.log('My name is', this.name);
  },
}

student.sayHello(); // 'My name is Bob'
```

```javascript
const student = {
  name: 'Bob',
  // ES6 property methods
  sayHello() {
    console.log('My name is', this.name);
  }
}

student.sayHello(); // 'My name is Bob'
```

```javascript
'use strict'

// avoid using arrow function in object methods
const student = {
  name: 'Bob',

  // arrow function
  sayHello: () => {
    console.log('My name is', this.name);
  }
}

student.sayHello(); // 'My name is undefined'
```

Tham khảo

- https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Operators/this
- https://www.tutorialstonight.com/js/this-in-javascript.php
- Youtube Fireship - What is this in Javascript

Khoá học Javascript cho người mới bắt đầu 2021🎉

- Tác giả: **Hậu Nguyễn** - Founder Easy Frontend
- Khoá học chỉ được published trên Udemy, không thông qua trung gian.
- Khoá học không bán dạng videos upload trên Google Drive hay bất cứ hình thức nào tương tự.
- Khoá học có nhóm discord để hỗ trợ trong quá trình học tập.

☎️ Liên hệ tác giả để được hỗ trợ:

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