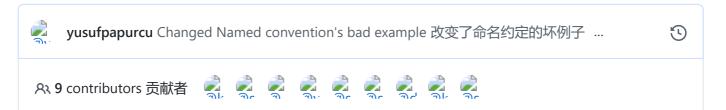
□ kettanaito / naming-cheatsheet

Kettanito/命名作弊表

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naming-cheatsheet 命名作弊表 / README.md



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Blame 责备

Naming cheatsheet

Naming cheatsheet 命名作弊表

- English language 英语
- Naming convention 变数命名原则
- S-I-D

Raw 原材料

- Avoid contractions 避免宫缩
- Avoid context duplication 避免上下文重复
- Reflect the expected result 反映预期结果
- Naming functions 命名函数
 - A/HC/LC pattern A/HC/LC 模式
 - Actions 行动
 - Context 背景
 - Prefixes 前缀



• Singular and Plurals 单数和复数



Naming things is hard. This sheet attempts to make it easier.



命名事物是困难的,这张纸试图让它变得更容易。

Although these suggestions can be applied to any programming language, I will use JavaScript to illustrate them in practice.

虽然这些建议可以应用于任何编程语言,但我将使用 JavaScript 在实践中进行演示。

English language 英语

Use English language when naming your variables and functions.

在命名变量和函数时使用英语。

```
/* Bad */
const primerNombre = 'Gustavo'
const amigos = ['Kate', 'John']
/* Good */
const firstName = 'Gustavo'
const friends = ['Kate', 'John']
```

Like it or not, English is the dominant language in programming: the syntax of all programming languages is written in English, as well as countless documentations and educational materials. By writing your code in English you dramatically increase its cohesiveness.

不管你喜欢与否,英语是编程中的主导语言: 所有编程语言的语法都是用英语书写的, 还有无数的文档和教育材料。通过用英语编写代码, 你可以极大地增加代码的凝聚力。

Naming convention 变数命名原则

Pick **one** naming convention and follow it. It may be <code>camelCase</code>, or <code>snake_case</code>, or anyhow else, it does not matter. What matters is for it to remain consistent.

选择一个变数命名原则,然后跟随它。它可能是 camelCase, 或者 snake case, 或者无论如何,都无关紧要。重要的是保持一致性。

```
/* Bad */
const page_count = 5
const shouldUpdate = true
/* Good */
const pageCount = 5
const shouldUpdate = true
/* Good as well */
```







```
const page count = 5
const should update = true
```

S-I-D

A name must be short, intuitive and descriptive:

- 一个名字必须简短、直观、描述性强:
 - Short 简短. A name must not take long to type and, therefore, remember; . 一个名 字不能打太久, 因此要记住;
 - Intuitive. A name must read naturally, as close to the common speech as possible;
 - **Descriptive**. A name must reflect what it does/possesses in the most efficient way.

```
/* Bad */
const a = 5 // "a" could mean anything
const isPaginatable = a > 10 // "Paginatable" sounds extremely unnatural
const shouldPaginatize = a > 10 // Made up verbs are so much fun!
/* Good */
const postCount = 5
const hasPagination = postCount > 10
const shouldDisplayPagination = postCount > 10 // alternatively
```

Avoid contractions

Do not use contractions. They contribute to nothing but decreased readability of the code. Finding a short, descriptive name may be hard, but contraction is not an excuse for not doing so.

```
/* Bad */
const onItmClk = () => {}
/* Good */
const onItemClick = () => {}
```

Avoid context duplication



A name should not duplicate the context in which it is defined. Always remove the context from a name if that doesn't decrease its readability.





```
class MenuItem {
  /* Method name duplicates the context (which is "MenuItem") */
  handleMenuItemClick = (event) => { ... }
```

```
/* Reads nicely as `MenuItem.handleClick()` */
handleClick = (event) => { ... }
}
```

Reflect the expected result

A name should reflect the expected result.

```
/* Bad */
const isEnabled = itemCount > 3
return <Button disabled={!isEnabled} />
/* Good */
const isDisabled = itemCount <= 3
return <Button disabled={isDisabled} />
```

Naming functions

A/HC/LC Pattern

There is a useful pattern to follow when naming functions:

```
prefix? + action (A) + high context (HC) + low context? (LC)
```

Take a look at how this pattern may be applied in the table below.

Name	Prefix	Action (A)	High context (HC)	Low context (LC)
getPost		get	Post	
getPostData		get	Post	Data
handleClickOutside		handle	Click	Outside
shouldDisplayMessage	should	Display	Message	





Note: The order of context affects the meaning of a variable. For example, shouldUpdateComponent means you are about to update a component, while shouldComponentUpdate tells you that component will update on itself, and you are but controlling when it should be updated. In other words, high context emphasizes the meaning of a variable.

Actions

The verb part of your function name. The most important part responsible for describing what the function does.

get

Accesses data immediately (i.e. shorthand getter of internal data).

```
function getFruitCount() {
  return this.fruits.length
}
```

See also compose.

set

```
let fruits = 0
function setFruits(nextFruits) {
  fruits = nextFruits
}
setFruits(5)
console.log(fruits) // 5
```

reset

Sets a variable back to its initial value or state.



```
const initialFruits = 5
let fruits = initialFruits
setFruits(10)
console.log(fruits) // 10
function resetFruits() {
```





```
fruits = initialFruits
resetFruits()
console.log(fruits) // 5
```

fetch

Request for some data, which takes some indeterminate time (i.e. async request).

```
function fetchPosts(postCount) {
  return fetch('https://api.dev/posts', {...})
```

remove

Removes something *from* somewhere.

For example, if you have a collection of selected filters on a search page, removing one of them from the collection is removeFilter, not deleteFilter (and this is how you would naturally say it in English as well):

```
function removeFilter(filterName, filters) {
  return filters.filter((name) => name !== filterName)
}
const selectedFilters = ['price', 'availability', 'size']
removeFilter('price', selectedFilters)
```

See also delete.

delete

Completely erases something from the realms of existence.

Imagine you are a content editor, and there is that notorious post you wish to get rid of. Once you clicked a shiny "Delete post" button, the CMS performed a deletePost action, **not** removePost.

```
function deletePost(id) {
  return database.find({ id }).delete()
}
```

See also remove.



compose

Creates new data from the existing one. Mostly applicable to strings, objects, or functions.

```
function composePageUrl(pageName, pageId) {
  return `${pageName.toLowerCase()}-${pageId}`
```

See also get.

handle

Handles an action. Often used when naming a callback method.

```
function handleLinkClick() {
  console.log('Clicked a link!')
}
link.addEventListener('click', handleLinkClick)
```

Context

A domain that a function operates on.

A function is often an action on something. It is important to state what is its operable domain, or at least an expected data type.

```
/* A pure function operating with primitives */
function filter(predicate, list) {
  return list.filter(predicate)
}
/* Function operating exactly on posts */
function getRecentPosts(posts) {
  return filter(posts, (post) => post.date === Date.now())
}
```



Some language-specific assumptions may allow omitting the context. For example, in JavaScript, it's common that filter operates on Array. Adding explicit filterArray would be unnecessary.





Prefixes

Prefix enhances the meaning of a variable. It is rarely used in function names.

is

Describes a characteristic or state of the current context (usually boolean).

```
const color = 'blue'
const isBlue = color === 'blue' // characteristic
const isPresent = true // state
if (isBlue && isPresent) {
  console.log('Blue is present!')
}
```

has

Describes whether the current context possesses a certain value or state (usually boolean).

```
/* Bad */
const isProductsExist = productsCount > 0
const areProductsPresent = productsCount > 0
/* Good */
const hasProducts = productsCount > 0
```

should

Reflects a positive conditional statement (usually boolean) coupled with a certain action.

```
function shouldUpdateUrl(url, expectedUrl) {
  return url !== expectedUrl
}
```

min / max



Represents a minimum or maximum value. Used when describing boundaries or limits.





* the given min/max boundaries.



```
*/
function renderPosts(posts, minPosts, maxPosts) {
  return posts.slice(0, randomBetween(minPosts, maxPosts))
}
```

prev / next

Indicate the previous or the next state of a variable in the current context. Used when describing state transitions.

```
function fetchPosts() {
  const prevPosts = this.state.posts
  const fetchedPosts = fetch('...')
  const nextPosts = concat(prevPosts, fetchedPosts)
 this.setState({ posts: nextPosts })
}
```

Singular and Plurals

Like a prefix, variable names can be made singular or plural depending on whether they hold a single value or multiple values.

```
/* Bad */
const friends = 'Bob'
const friend = ['Bob', 'Tony', 'Tanya']
/* Good */
const friend = 'Bob'
const friends = ['Bob', 'Tony', 'Tanya']
```





