TECHNIQUE

NAMING CONVENTIONS

WHAT IS NAMING CONVENTION?

Rules for naming variables, functions, classes or other entities in source code.

PURPOSE

- To reduce the effort needed to read and understand source code.
- To enable code reviews to focus on more important issues.

COMMON RULES

CAMEL CASE

- Start with lowercase.
- Multiple word start with uppercase.
- Ex. productList, renderFooter, getUserByld.
- Common used for variables, functions.

PASCAL CASE

- Same as camelCase but first character start with uppercase.
- Ex. ProductList, RenderFooter, GetUserByld.
- Common used for classname.

SNAKE CASE

- Use only lowercase.
- Separate word with underscore.
- Ex. resume_code, user_id.
- Common used for variables.

KEBAB CASE

- Use only lowercase.
- Separate word with hyphen.
- Ex. login-button, btn-danger.
- Common used for id, css name in HTML.
- * Cannot use in javascript.

ALL UPPER CASE

- Use only uppercase.
- Separate word with underscore.
- Ex. API_ENDPOINT, REQUEST_TIMEOUT.
- Common used for application global variable, constant.

RESERVED WORDS

RESERVED WORDS

- a word that cannot be used as identifier.
- In Javascript such as const, let, class, export, etc...

FOLDERS & FILES

FOLDER

- Common used in lowercase.
- Multiple word use mostly use snake_case or camelCase.
- But mostly named in one word.

FILE

- Common used in lowercase.
- If has more than two word use snake_case or camelCase.
- * In Javascript sometime use exported entity convention such as export class so use class convention.

CLASS NAME

CLASS NAME

- Common used in PascalCase.
- Should be a noun.
- Ex. ProductList, About.

FUNCTION NAME

FUNCTION NAME

- Common used in camelCase.
- Should be a verb.
- Ex. renderDatePicker, createUser, getActiveMenu.
- * In React functional component use convention same as class name convention.

CLASS & FUNCTION COMBINATION

- Class should be a noun and function should be a verb makes more readability.
- Ex. product.remove(), image.resizeTo().

VARIABLES

COMMON VARIABLES

- Common use in camelCase and snake_case.
- > Should be a noun.

CONSTANT VARIABLES

- Common used in all uppercase with underscore.
- Ex. REQUEST_TIMEOUT, API_ENDPOINT.

BOOLEAN

BOOLEAN

- true/false.
- Start with is, has, can.
- Ex. isActive, hasPhoneNumber.

CSS CONVENTION

COMMON CSS CONVENTION

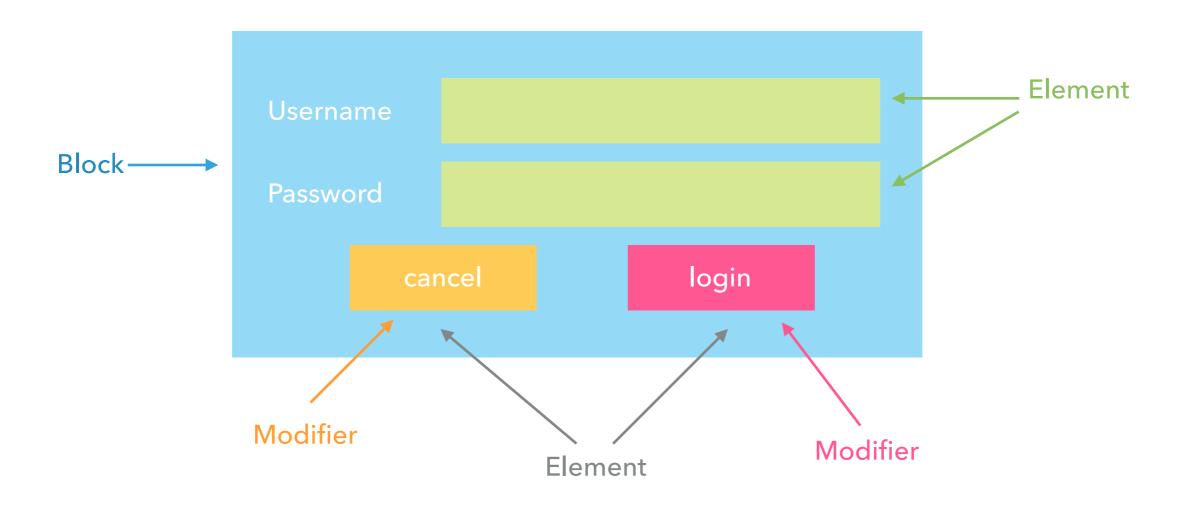
- ► All lowercase with hyphen (-).
- Ex. product-item, icon-github.

CSS STYLE GUIDE

- ▶ BEM <u>getbem.com</u>
- RSCSS rscss.io

- Block Standalone entity that is meaningful on its own.
- Element Parts of a block and have no standalone meaning.
- Modifier Use them to change appearance, behavior or state.

- **Block** Contain letter and can have dash.
- **Element** Begin with two underscore.
- Modifier Begin with two hyphen.



Concept

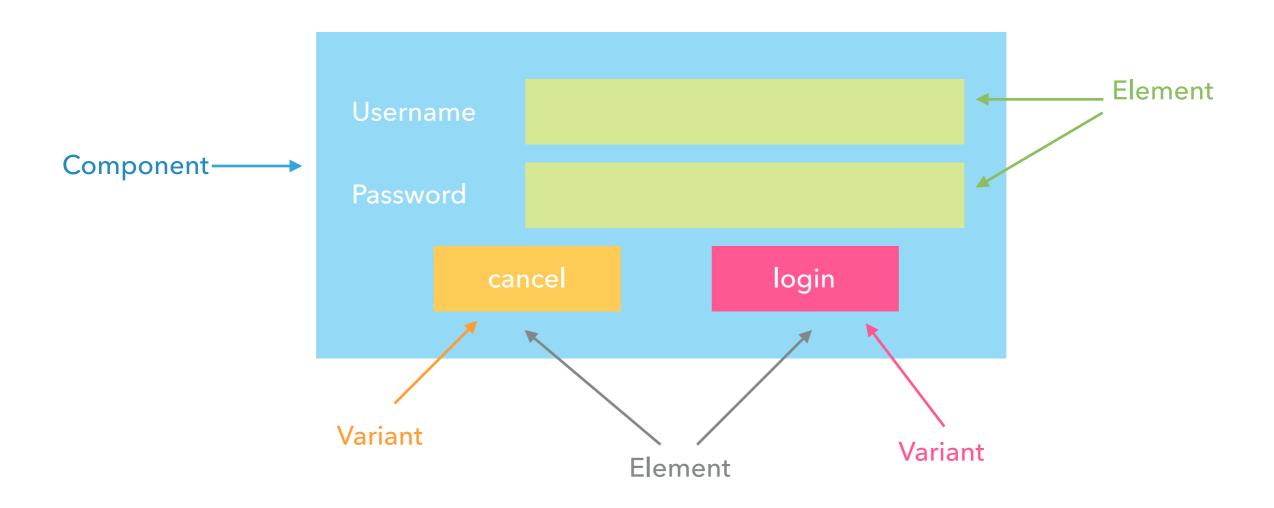
```
.block {
    ...
}
.block_element {
    ...
}
.block_element—modifier {
    ...
}
```

Example

```
.loginbox {
    ...
}
.loginbox__button {
    ...
}
.loginbox__button—red {
    ...
}
```

- Component Standalone entity that is meaningful on its own.
- Element Parts of a block and have no standalone meaning.
- Variant Use them to change appearance, behavior or state.
- Helper Override all style.

- Component Named at least two words with hyphen each word.
- **Element** Only one word.
- Variant Only one word and begin with underscore.
- Helper Only one word and begin with hyphen.



Example Concept .component-box { .login-box { .component-box element { .login-box button { .component-box element -modifier { .login-box button -red { .component-box _helper { .login-box _nomargin {

NAMING TECHNIQUE

CREATE CLEAR NAMING

- > Specify what variable is or function do.
- Ex. checkApply() should be canApply().

COMMON LETTER VARIABLES

- i, j, k is valid for index counter.
- e is valid for Javascript event Ex. e.target.value.
- e is valid for JAVA exception Ex. catch(exception e).

DUPLICATE NAME IN FOLDER DIRECTORY

- actions/productAction.js should be actions/product.js
- containers/ProductContainer.js should be containers/ Product.js

DUPLICATE NAME IN OBJECT

company.companyName should be company.name

SINGLE AND PLURAL

- Ex. product should contain one product.
- Ex. products should contain array of product.
- Ex. getProducts() should not return an object.

NAMING WITHOUT ABBREVIATION

Ex. prod should be product because it can be product, production, produce.

LANGUAGE SPECIFIC CONVENTION

- Use language specific convention to define identity.
- Ex. Javascript use camelCase.
- Ex. C++ use snake_case.

GAINS MORE WORD

- Code review.
- Read other code or blog.