TECHNIQUE

NAMING CONVENTION

WHAT IS NAMING CONVENTION ?

- Rules for naming variable, function, class or other entity 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

NAMING CONVENTION

COMMON RULES

CAMEL CASE

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

PASCAL CASE

- Same as camelCase but first character start with uppercase
- Ex. ProductList, RenderFooter, GetUserById
- 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
- * 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

NAMING CONVENTION

RESERVED WORDS

RESERVED WORDS

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

NAMING CONVENTION

EXAMPLE

NAMING CONVENTION

FOLDER & FILE

FOLDER

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

FILE

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

NAMING CONVENTION

CLASS NAME

CLASS NAME

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

NAMING CONVENTION

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()

NAMING CONVENTION

VARIABLE

COMMON VARIABLE

- Common use in camelCase and snake_case
- Should be a noun
- * If variable name is verb try to write in function call

CONSTANT VARIABLE

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

NAMING CONVENTION

BOOLEAN

BOOLEAN

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

NAMING CONVENTION

CSS CONVENTION

COMMON CSS CONVENTION

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

CSS STYLE GUIDE

- BEM - getbem.com
- RSCSS - rscss.io

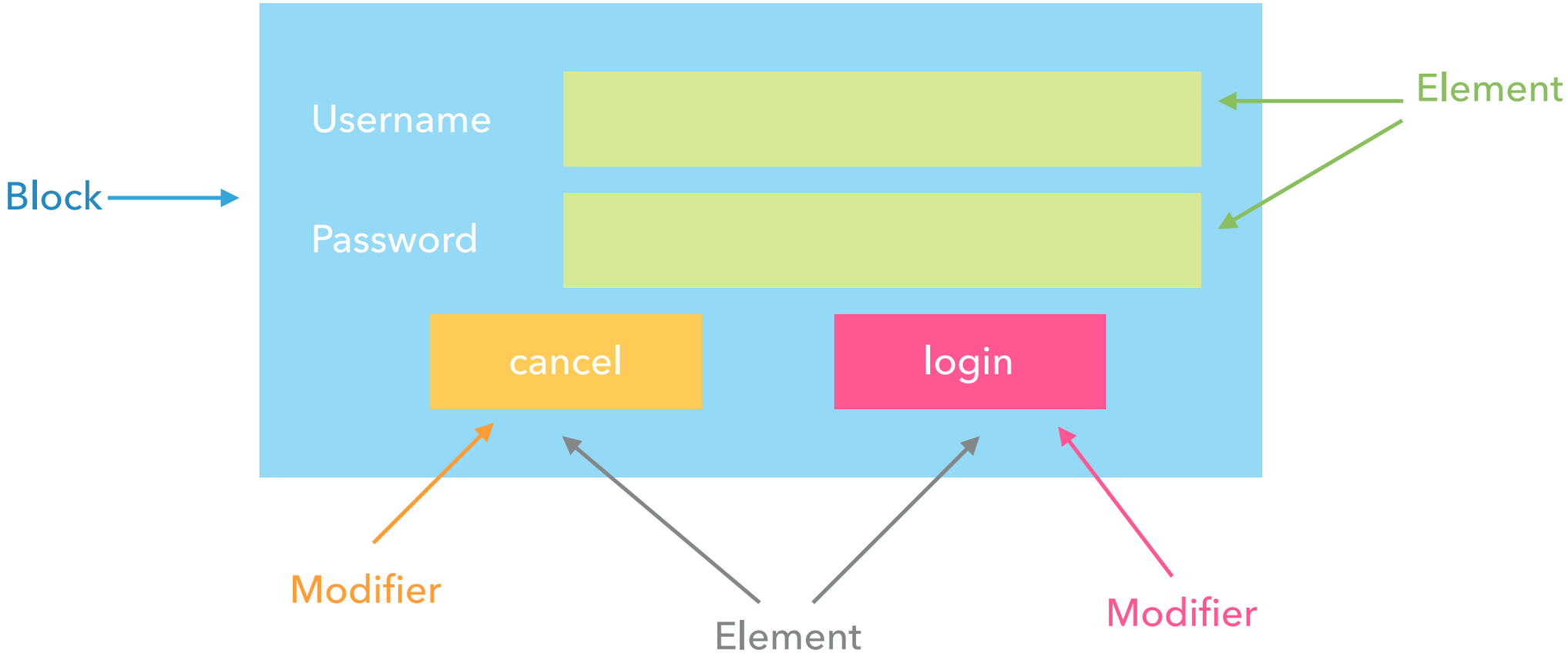
BEM

- **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

BEM

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

BEM


Block
Username
Password
Element
cancel
login
Modifier
Element
Modifier

BEM

Concept

```
.block {
  ...
}

.block__element {
  ...
}

.block__element--modifier {
  ...
}
```

Example

```
.loginbox {
  ...
}

.loginbox__button {
  ...
}

.loginbox__button--red {
  ...
}
```

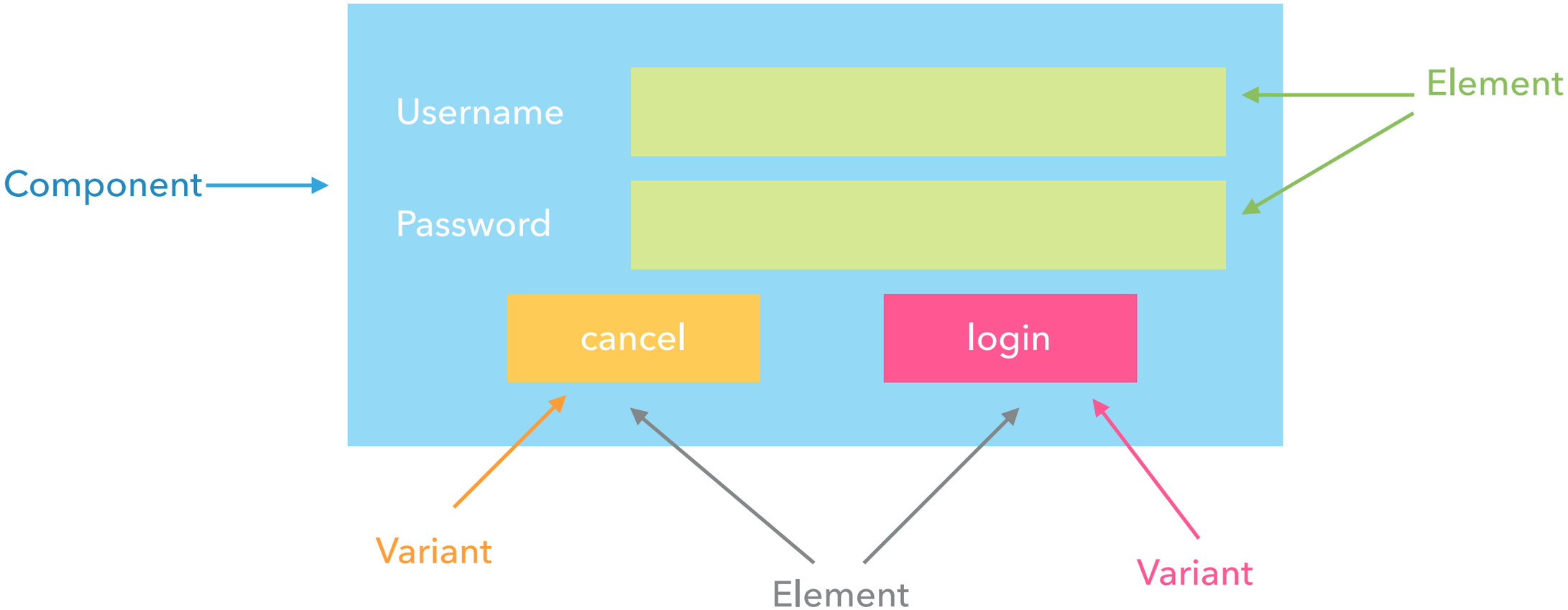
RSCSS

- **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

RSCSS

- **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

RSCSS


Component
Username
Password
cancel
login
Element
Variant
Element
Variant

RSCSS

Concept

```
.component-box {
  ...
}

.component-box element {
  ...
}

.component-box element -modifier {
  ...
}

.component-box _helper {
  ...
}
```

Example

```
.login-box {
  ...
}

.login-box button {
  ...
}

.login-box button -red {
  ...
}

.login-box _nomargin {
  ...
}
```

NAMING CONVENTION

NAMING TECHNIQUE

CREATE CLEAR NAMING

- Specify what variable is or function do
- Ex. checkApply() to canApply()

COMMON LETTER VARIABLE

- 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 to actions/product.js
- containers/ProductContainer.js to containers/Product.js

SINGLE AND PLURAL

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

NAMING WITHOUT ABBREVIATION

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

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