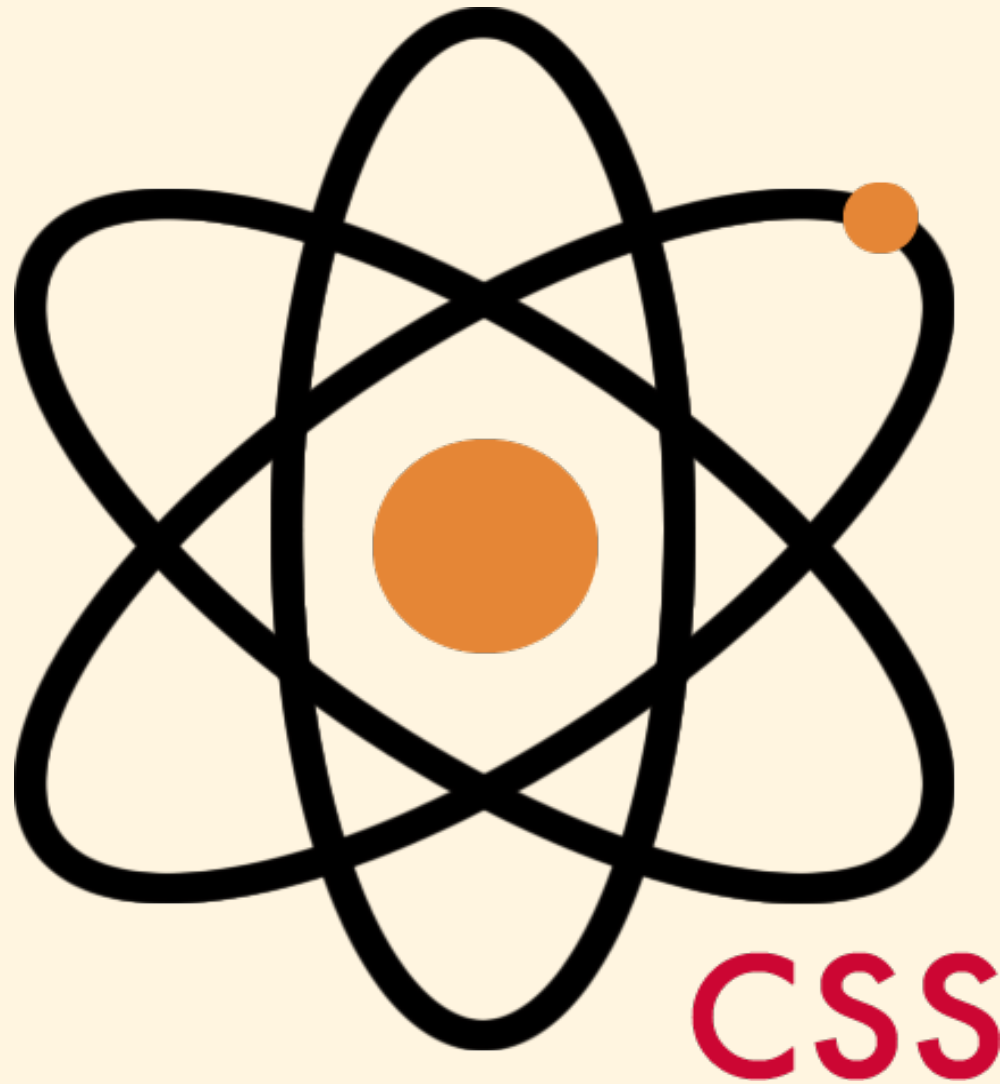# APB CSS

CSS

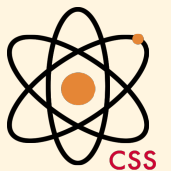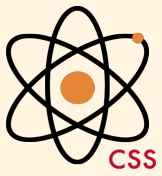# ATOMIC PARTS BASE CSS

@Daisuke Takayama

Agenda

1. What is Atomic Parts Base CSS(APB CSS)

2. Atoms Style Sheet

3. Molecules Style Sheet

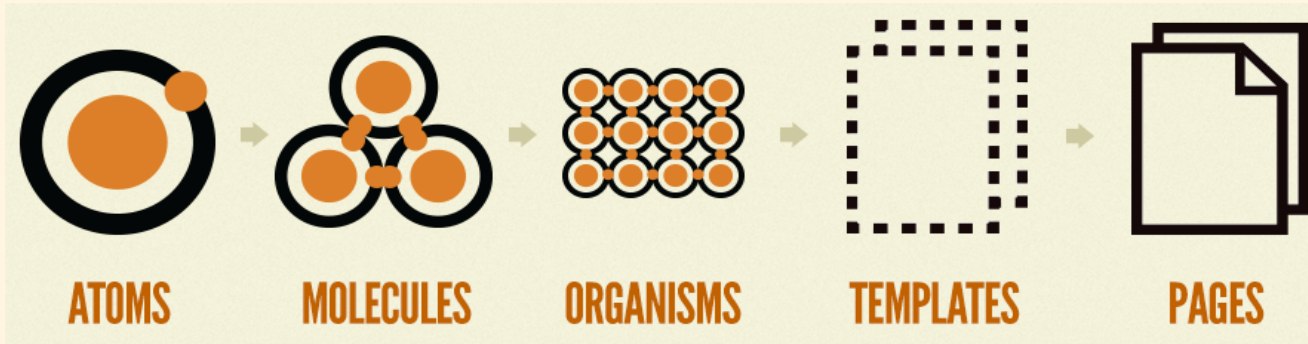## 4. Multi Class (object-oriented)
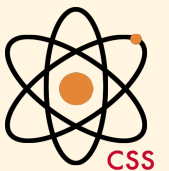
5. Directory structure

6. sample

What is Atomic Parts Base CSS(APB CSS)

What is Atomic Parts Base CSS(APB CSS)

Atomic Design + OOCSS + SMACSS =
Atomic Parts Base CSS(APB CSS)

ATOMS → MOLECULES → ORGANISMS → TEMPLATES → PAGES

OBJECT ORIENTED CSS
for high performance web applications and sites.

Nicole Sullivan

"SMACSS is becoming one of the most useful contributions to front-end discussion in years"

Scalable and Modular Architecture for CSS

A flexible guide to developing sites small and large.
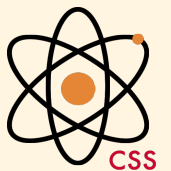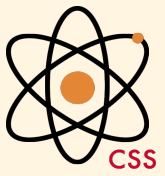
by Jonathan Snook

ATOMIC PARTS BASE CSS

What is Atomic Parts Base CSS(APB CSS)

- **Simple**
- **Predictable**
- **General versatility**
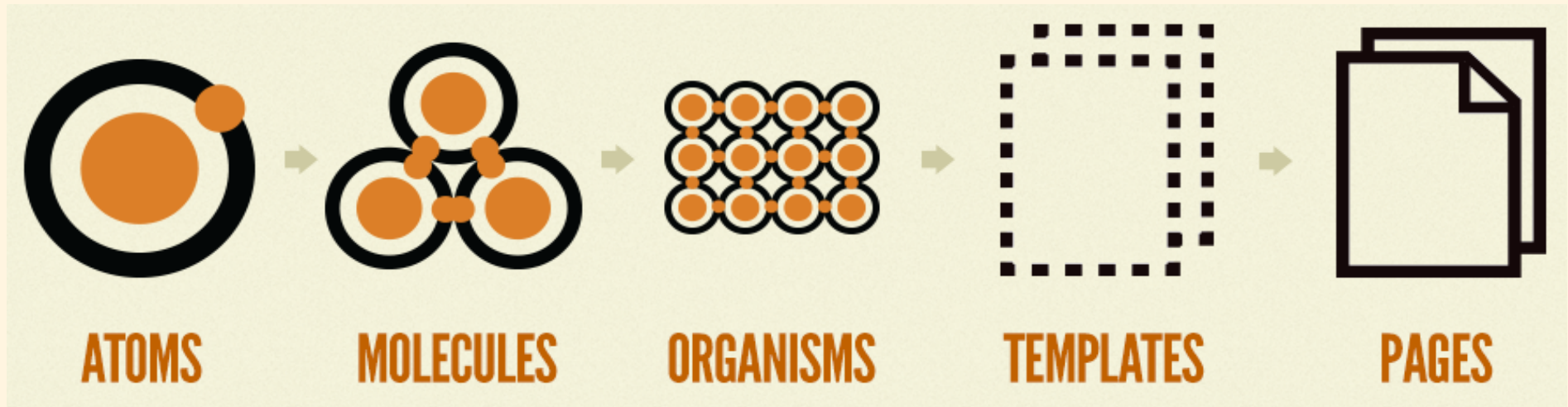- **Reusable**
- **Maintainable**
- **Scalable**
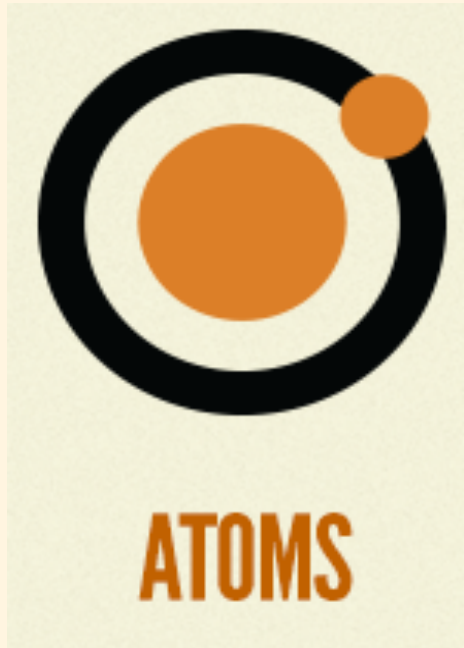- **Interactive**

Atoms Style Sheet

Atoms Style Sheet

Atomic Design

ATOMS → MOLECULES → ORGANISMS → TEMPLATES → PAGES

http://bradfrost.com/blog/post/atomic-web-design/

ATOMIC PARTS BASE CSS

Atoms Style Sheet

Atoms

Button

Atoms Style Sheet

Atoms
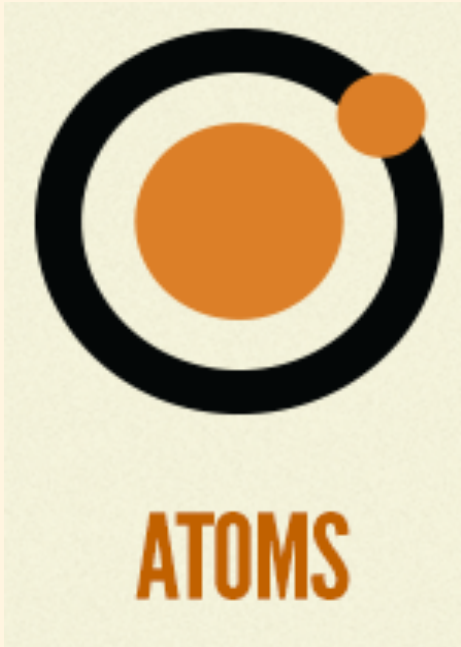
ATOMS

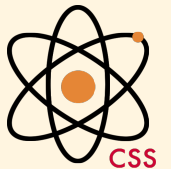### HTML

```
<p class="btn primary"><a href="#">Button</a></p>
```

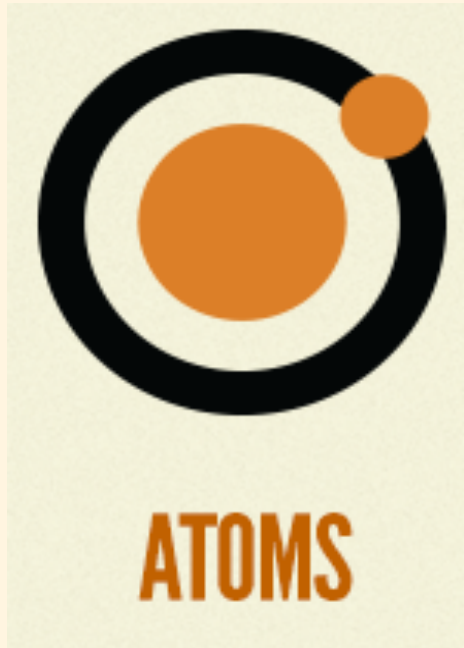### CSS

```
.btn {
  position: relative;
  width: 200px;
  height: 40px;
  border-radius: 6px;
  a {
    display: block;
    line-height: 40px;
    text-align: center;
    text-decoration: none;
    color: #fff;
    font-size: 18px;
  }
  &.primary {
    background: #404040;
    @include background(linear-gradient(top, #404040, #282828));
    &:hover { background: #303030; }
  }
}
```
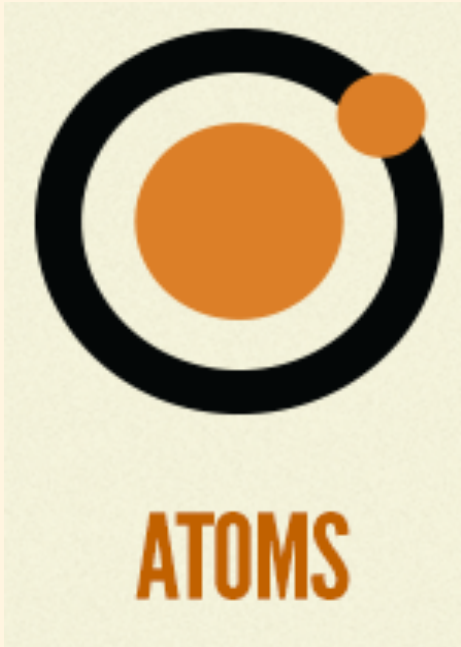
ATOMIC PARTS BASE CSS

CSS

Atoms Style Sheet

Atoms

Icon

Atoms Style Sheet

Atoms

ATOMS

HTML
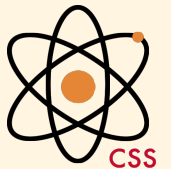
```
<p class="icon social github"></p>
```
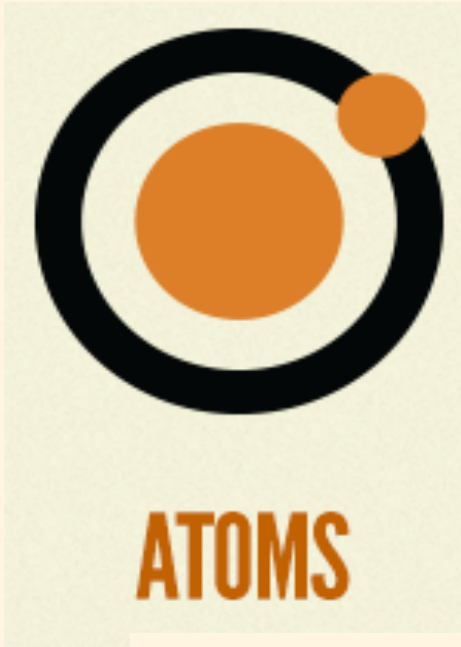
CSS

```
.icon {
  display: inline-block;
  &.social {
    width: 34px;
    height: 34px;
    background: url(SpriteImagePath) no-repeat;
    @include background-size(205px auto);
    &.github { background-position: -171px top; }
  }
}
```
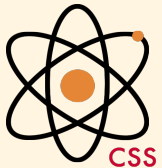
ATOMIC PARTS BASE CSS

Atoms Style Sheet

Atoms

Button

Icon

Properties of the layout style is not included.

❌ **margin, float, position, etc..**

ATOMIC PARTS BASE CSS

Molecules Style Sheet

Molecules Style Sheet

Molecules

Button + Icon

Molecules Style Sheet

Molecules

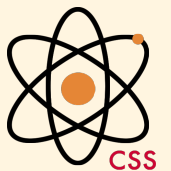### HTML

```
<p class="btn primary"><a href="#"><span class="icon social gith
ub"></span>Button</a></p>
```

CSS

```
.btn {
    .icon {
        &.social {
            margin: 0px 6px -11px -34px;
        }
    }
}
```

MOLECULES

ATOMIC PARTS BASE CSS

CSS

Molecules Style Sheet

Molecules

Text + Icon

Molecules Style Sheet

Molecules
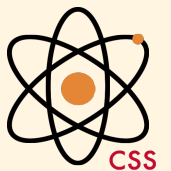

HTML

```
<p class="text"><span class="icon ban"></span>text</p>
```

CSS

```
.text {
  .icon.ban {
    margin: 0 4px -10px 0;
  }
}
```
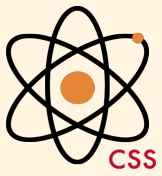
Molecules Style Sheet

Molecules

Button + Icon

Text + Icon

Layout property is generated when you became a molecule.
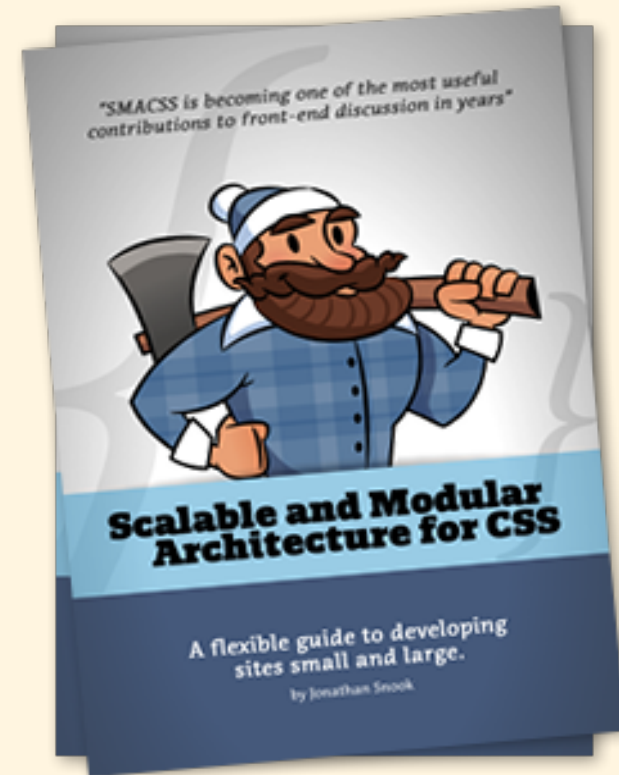margin, float, position, etc..

Multi Class (object-oriented)

Multi Class (object-oriented)

OOCSS + SMACSS

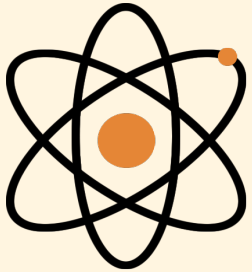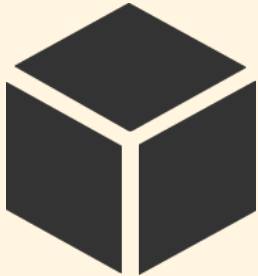Excerpts from the「OOCSS」,「SMACSS 」

ATOMIC PARTS BASE CSS

Multi Class (object-oriented)

CSS Class Type
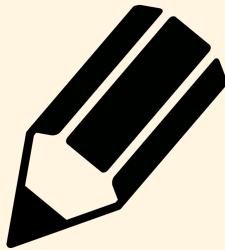
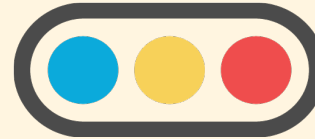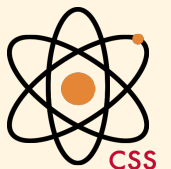| Atomic	Module	Skin	Number	State	Other

Multi Class (object-oriented)
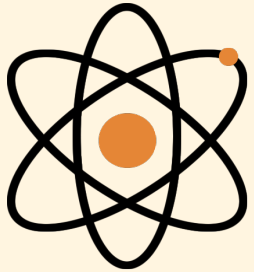
CSS Class Type

- **Atomic** : Class name of atom
- **Module** : UI package name
- **Skin** : Class name of decoration
- **Number** : Numbering of the class name
- **State** : Class name that represents the state
- **Other** : Other class name

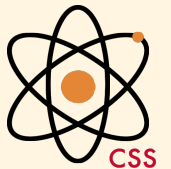**Based on the atom name or module name, and grant the six types of class name.**

ATOMIC PARTS BASE CSS

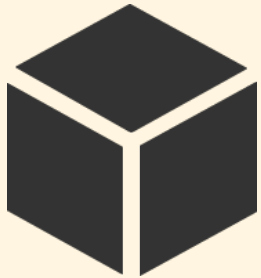# Multi Class (object-oriented)

CSS Class Type

Atomic

- **text**
- **icon**
- **btn**
- **thumbnail**
- **label**
- **input**
- **code**
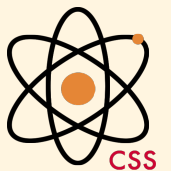- **separate**

Multi Class (object-oriented)
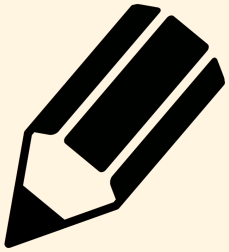
CSS Class Type

Module

- **header**
- **footer**
- **contents**
- **mainLogo**
- **title**
- **column**
- **thumbnailList**
- **textList**
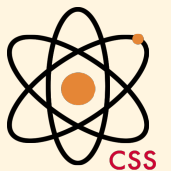- **detailBox**
- **modalWindow**

ATOMIC PARTS BASE CSS

Multi Class (object-oriented)

CSS Class Type

Skin

- **red**
- **blue**
- **wide**
- **high**
- **low**
- **stripe**
- **subdued**
- **small**
- **middle**

ATOMIC PARTS BASE CSS

Multi Class (object-oriented)

CSS Class Type

Number

- **one**
- **two**
- **no[nth]**
- **type[nth]**
- **first**
- **last**
- **odd**
- **even**

ATOMIC PARTS BASE CSS
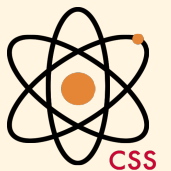
Multi Class (object-oriented)
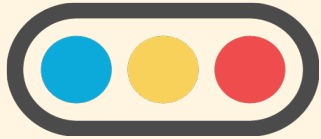
CSS Class Type

State

- **active**
- **disable**
- **tapped**
- **success**
- **error**
- **highlight**
- **checked**
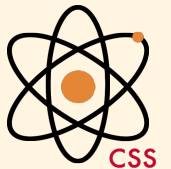- **note**
- **center**
- **right**

ATOMIC PARTS BASE CSS
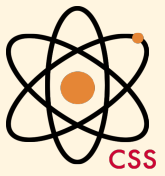
Multi Class (object-oriented)

CSS Class Type

etc

Other

- **wrap**
- **Service name**
- **Page name**
- **Controller name**
- **Namespace**

ATOMIC PARTS BASE CSS
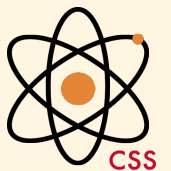
Directory structure

Directory structure

SCSS Directory

scss

```
scss
  |- base
  |- pages
  |- parts
  _common_inc.scss
  _parts.scss
  style.scss
```

- **_common_inc.scss**: import base and pages
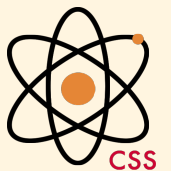- **_parts.scss**: import parts files

ATOMIC PARTS BASE CSS

Directory structure

Base Directory

base

```
scss
  |- base
    |- _base.scss
    |- _mixin.scss
    |- _reset.scss
    |- _setting.scss
```

- **_base.scss**: Define -based style of application
- **_mixin.scss**: Define mixin style
- **_reset.scss**: Initialize the style
- **_setting.scss**: Define such as variables and prefix

ATOMIC PARTS BASE CSS

Directory structure

Parts Directory

parts

```
scss
  |- parts
    |- _button.scss
    |- _icon.scss
    |- _list.scss
    |- _paragraph.scss
    ....
```

File group that defines the atom and modules.

ATOMIC PARTS BASE CSS

Directory structure

Pages Directory

pages

```
scss
  |- pages
    |- _top.scss
    |- _info.scss
    |- _profile.scss
    |- _main_contents.scss
    ....
```

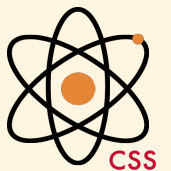## Defines page-specific layout style.

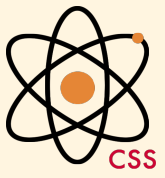# Directory structure

Name Space

HTML

```
<section id="top" class="top">
```

ID is the controller name(pages Directory name)
The class name is the action name, provide a name space.

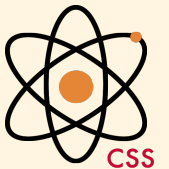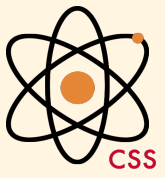# Sample

Sample

Github

https://github.com/webcyou/apbcss

Official page

http://apbcss.com

ATOMIC PARTS BASE CSS

Other

Other

Author

Name

Daisuke Takayama

Country

Japan

Job

FrontEnd Engineer

Blog

http://www.webcyou.com

 https://github.com/webcyou

https://github.com/panicdragon

 @webcyou

@panicdragon

ATOMIC PARTS BASE CSS

Thank You..