

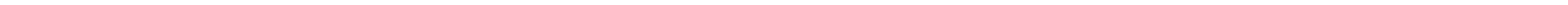
HTML & CSS

<https://training.stdio.vn>

Software installation

- **Visual Studio Code**

<https://code.visualstudio.com>



Projects



Simple page:
<https://www.stdio.vn/contact>

Without floating header.
Float margin auto practice.



Apps page:
<https://www.stdio.vn/apps>

Simple practice background.
Practice flex center.
Grid.



App page:
<https://www.stdio.vn/app/calcplus>

Grid and small trick.



Home page: <https://www.stdio.vn>

Floating header.
Practice section organization.



CMS:

2 column with
• Fixed left column.
• Flexible right column.

HTML

VERSION

<!DOCTYPE html>

DOCUMENTS

<html>

<head></head>

FOR META

<body>

<p>Hello HTML</p>

CONTENTS

<p>

GOOGLE

</p>

COMMENTS

<!-- comments -->

</body>

</html>

HTML versions

- **HTML 5** <!DOCTYPE html>
- **HTML 4.01** <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
- **HTML 1.1** <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">



<head>

- <title>Hello Title</title>
- <link rel="icon" href="</favicon.ico>" type="image/x-icon"/>

Some useful tags – try it!

```
<h1>Heading 1</h1>
```

```
<h2>Heading 2</h2>
```

```
...
```

```
<h5>Heading 5</h5>
```

```
<h6>Heading 6</h6>
```

```
<ul>
```

```
  <li>Content 1</li>
```

```
  <li>Content 2</li>
```

```
  <li>Content ...</li>
```

```
</ul>
```

```
<p>A paragraph</p>
```

```
<i>Italic</i>
```

```
<b>Bold</b>
```

```
<br/> <!-- break line -->
```


Some useful
tags 2 – try it!

```
<table><tbody>  
  <tr>  
    <th>Title 1</th>  
    <th>Title 2</th>  
  </tr>  
  <tr>  
    <td>Title 1</td>  
    <td>Title 2</td>  
  </tr>  
</tbody></table>
```

Some useful tags 3 – try it!

- ``
 - width, height
- `Name`
 - target="_blank"
 - role="button" / onclick="..."
- `<input type="text"/>`
 - type="..."
 - https://www.w3schools.com/html/html_form_input_types.asp

`<button onclick="...">I am button</button>`



Practice HTML 1

- Build the first website of the world.
- * *Use attribute `target="_blank"` to a tag.*

`http://info.cern.ch` - home of the first website

From here you can:

- [Browse the first website](#)
- [Browse the first website using the line-mode browser simulator](#)
- [Learn about the birth of the web](#)
- [Learn about CERN, the physics laboratory where the web was born](#)

Practice HTML 2

- Build Calculator layout (not focus on UI).
- * Use rowspan, colspan...

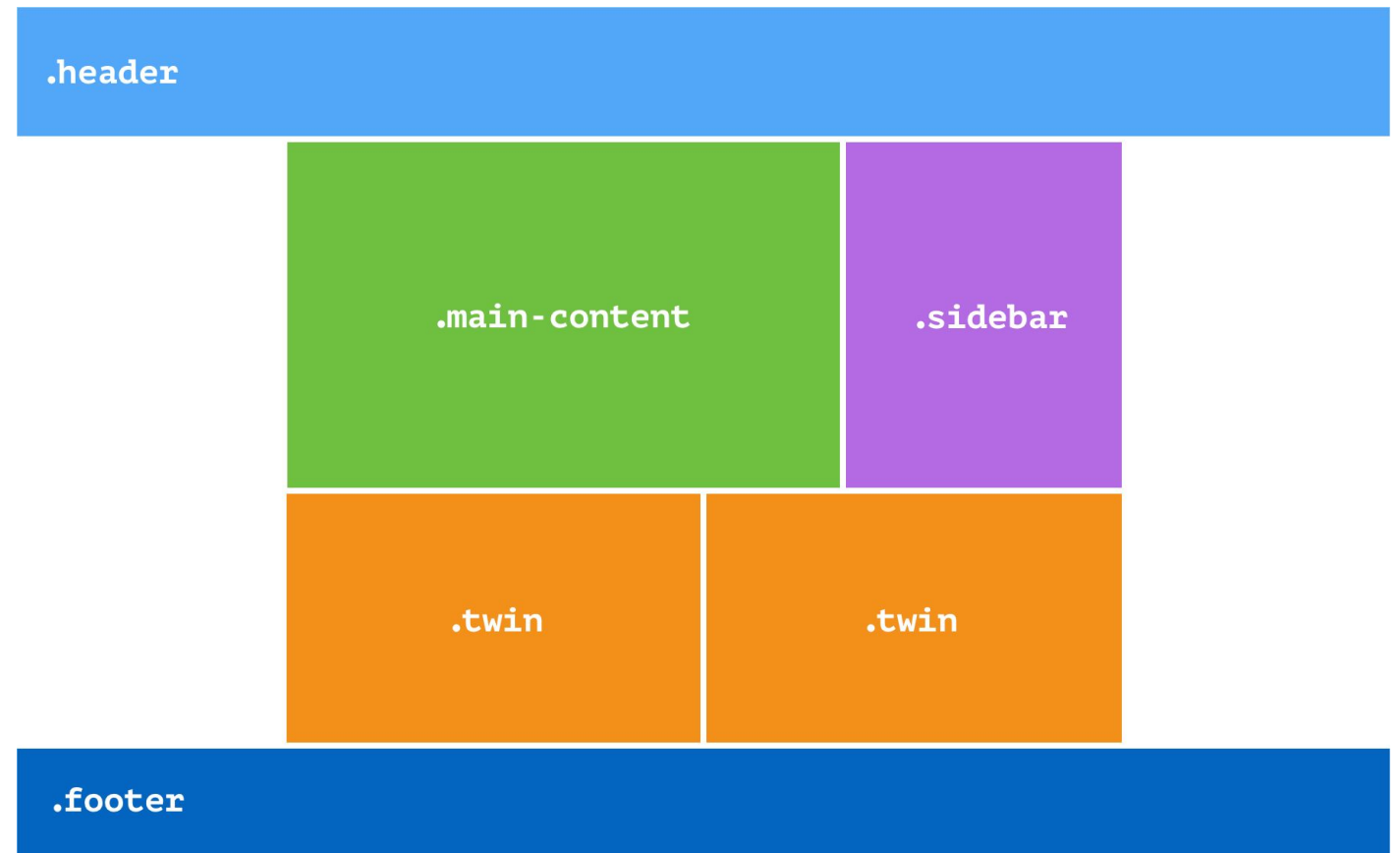




What is CSS?

- CSS is back-bone of website.
- Define layout for a website.
- For short CSS is to build template for website.

- A layout of web.



CSS/CSS3

Declare CSS

1. Inline with style
2. Internal CSS
3. External CSS
 - `<link rel="stylesheet" href="styles.css">`

Hello CSS – Quick approach

Hello, I am **red**.

```
<body>
```

```
    Hello, I am <b style="color:red">red</b>.
```

```
</body>
```


Hello CSS – Quick approach inline

Hello, I am **red**.

```
<style>...</style>
```

```
</head
```

```
<body>
```

```
    Hello, I am <b ...>red</b>.
```

```
</body>
```



Selectors

.class

```
<div class="myClass"></div>
```

Tag

```
<h1>content</h1>
```

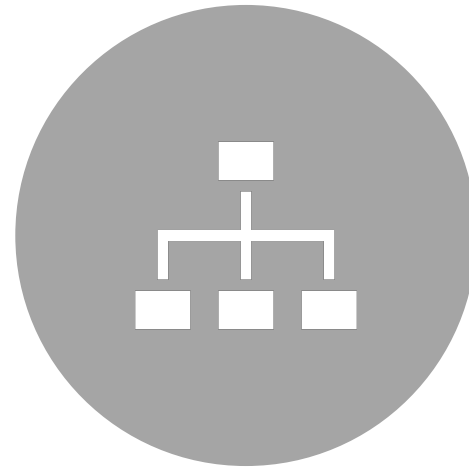
#id

```
<div id="myID"></div>
```

Demo use css with class



TRAINER DEMO USE CSS
WITH CLASS.



TRAINEES TRY IT YOURSELF.

Basic styles – try it!!!

- `width: 120px (25% or calc(100% - 300px))`
- `height: 200px (30%)`
- `float: left (right)`
- `color: #ff0000 (#ffb300, ...)`
- `background-color: #00ff00 (#fb3093, ...)`

Font & Text

- `font-family: "Times New Roman", Georgia, Serif`
- `font-size: 14px (1.0em, 1.0rem ...)`
- `font-weight: bold (normal, 100, 200, ... 700)`
- `font-style: italic (normal)`

- `text-align: center`

Padding & Margin

- padding: top right bottom left
 - padding: 10px 5px 20px 30px
- padding: top-bottom left-right
 - padding: 10px 20px
- margin: top right bottom left
 - margin: 10px 5px 20px 30px
- margin: top-bottom left-right
 - margin: 10px 20px

Border

- `border: border-width style color`
 - `border: 2px solid #ff0000`
- `border-left: border-width style color`
- `border-radius: top-left top-right bottom-right bottom-left`
 - `border-radius: 10px 20px 15px 35px`

Border

- `border: border-width style color`
 - `border: 2px solid #ff0000`
- `border-left: border-width style color`
- `border-radius: top-left top-right bottom-right bottom-left`
 - `border-radius: 10px 20px 15px 35px`

Block vs Inline



- `display: block / inline.`
- Do the trick with `line-height`

Combine selectors

.class

```
<div class="myClass1 myclass2"></div>
```

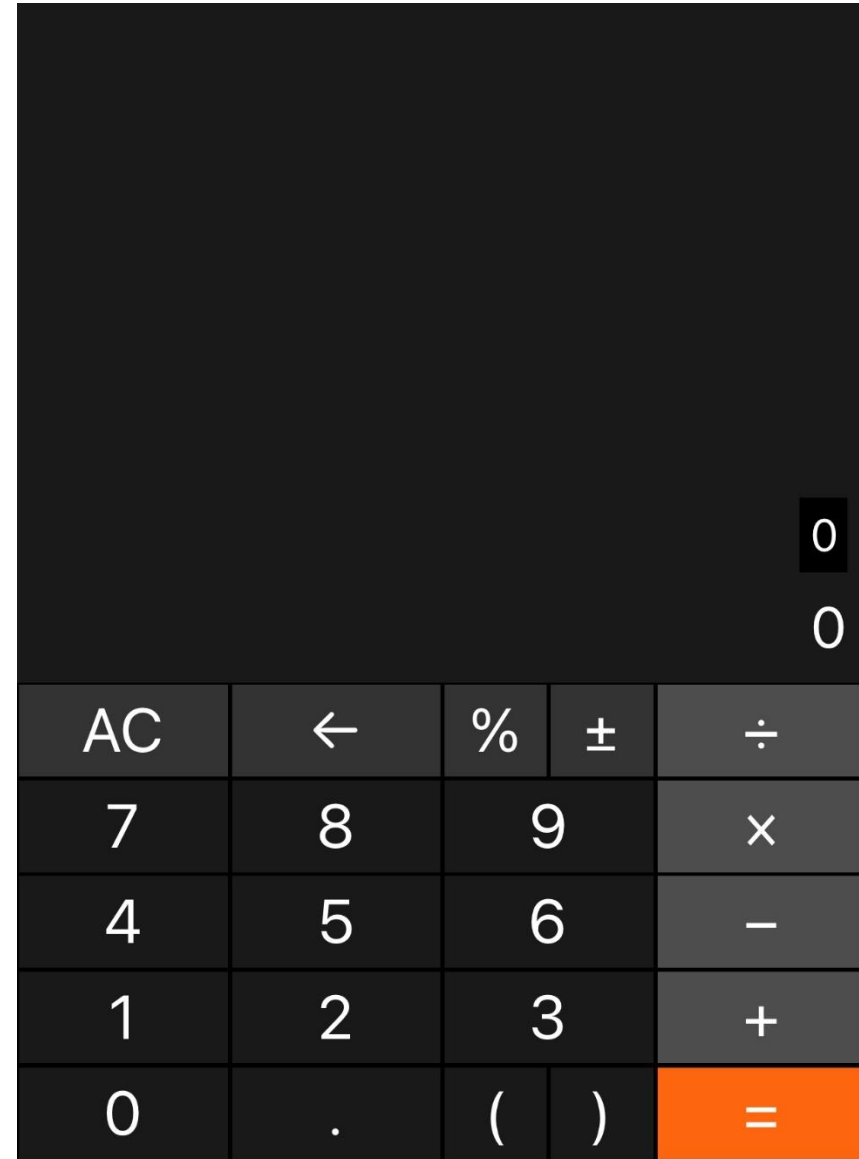
Precedence in CSS

- Inline > internal > external
- Bellow > above
- Now use external CSS.

Practice CSS 1

Build the Calculator Layout.

Trainer introduce nested selector.



Flex & Grid

- `display: flex;`
 - `flex-direction: column/row;`
 - `justify-content: flex-start/flex-end/center...`
 - `align-items: flex-start/flex-end/center...`
- `display: grid;`
 - `grid-template-column: 1fr 2fr...`
 - `grid-gap/grid-row-gap/grid-column-gap...`

Practice CSS 2

Build the Calculator Layout with flex
and grid



Position

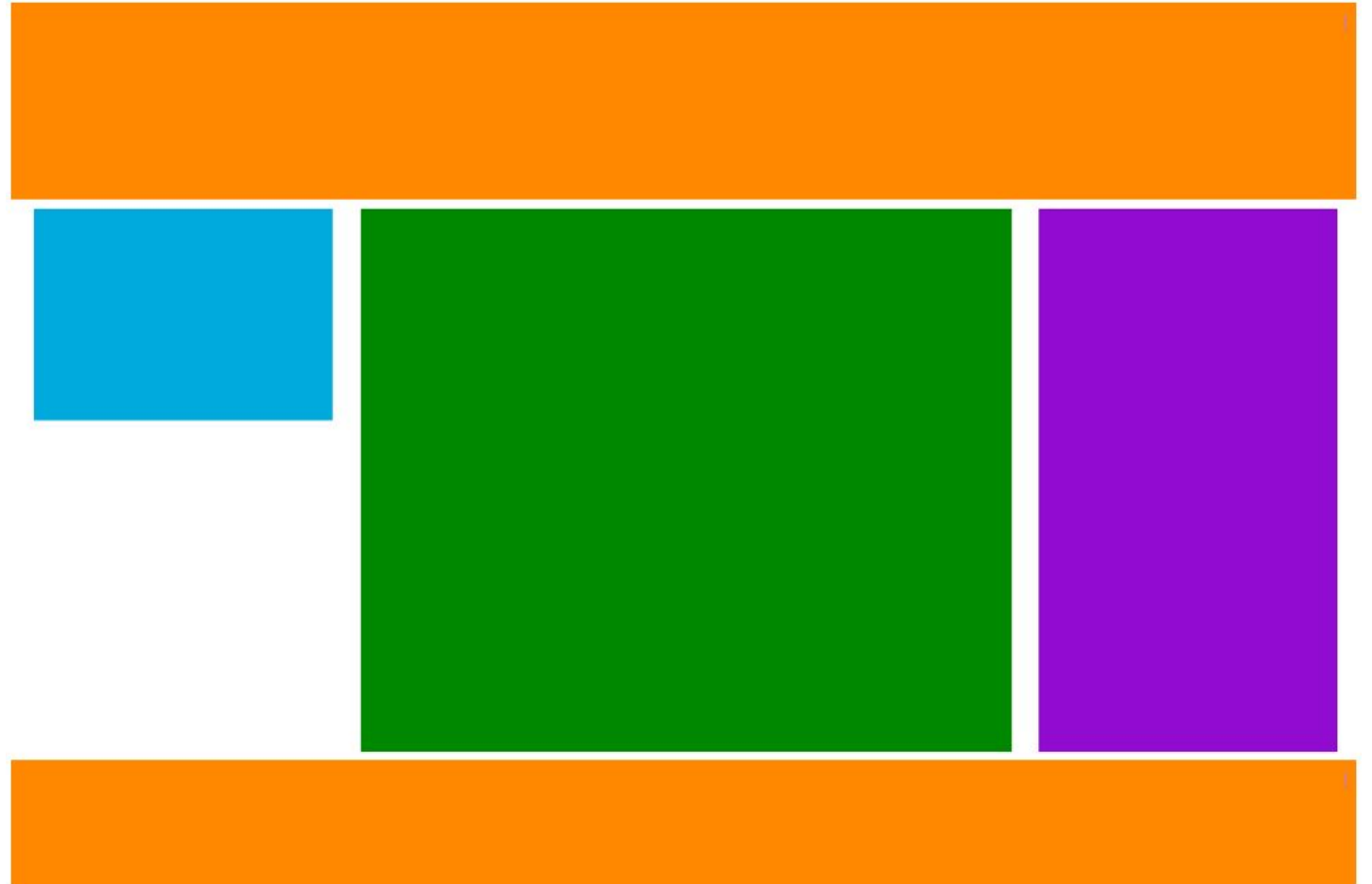
- static (by default)
 - fixed
 - relative
 - absolute
 - sticky
-
- top:120px
 - right:130px
 - bottom:30px
 - left:-15px
-
- Play: <https://developer.mozilla.org/en-US/docs/Web/CSS/position>

Nested

```
.wrapper {}  
.wrapper .wrapperCenter {}  
.wrapper .wrapperCenter h1 {}  
  
.wrapper .result {}  
.wrapper .package .result {}  
=> .wrapper > .result {}
```



Practice Build page layout



Practice build page

<https://www.stdio.vn/app/calculus>

Focus on:

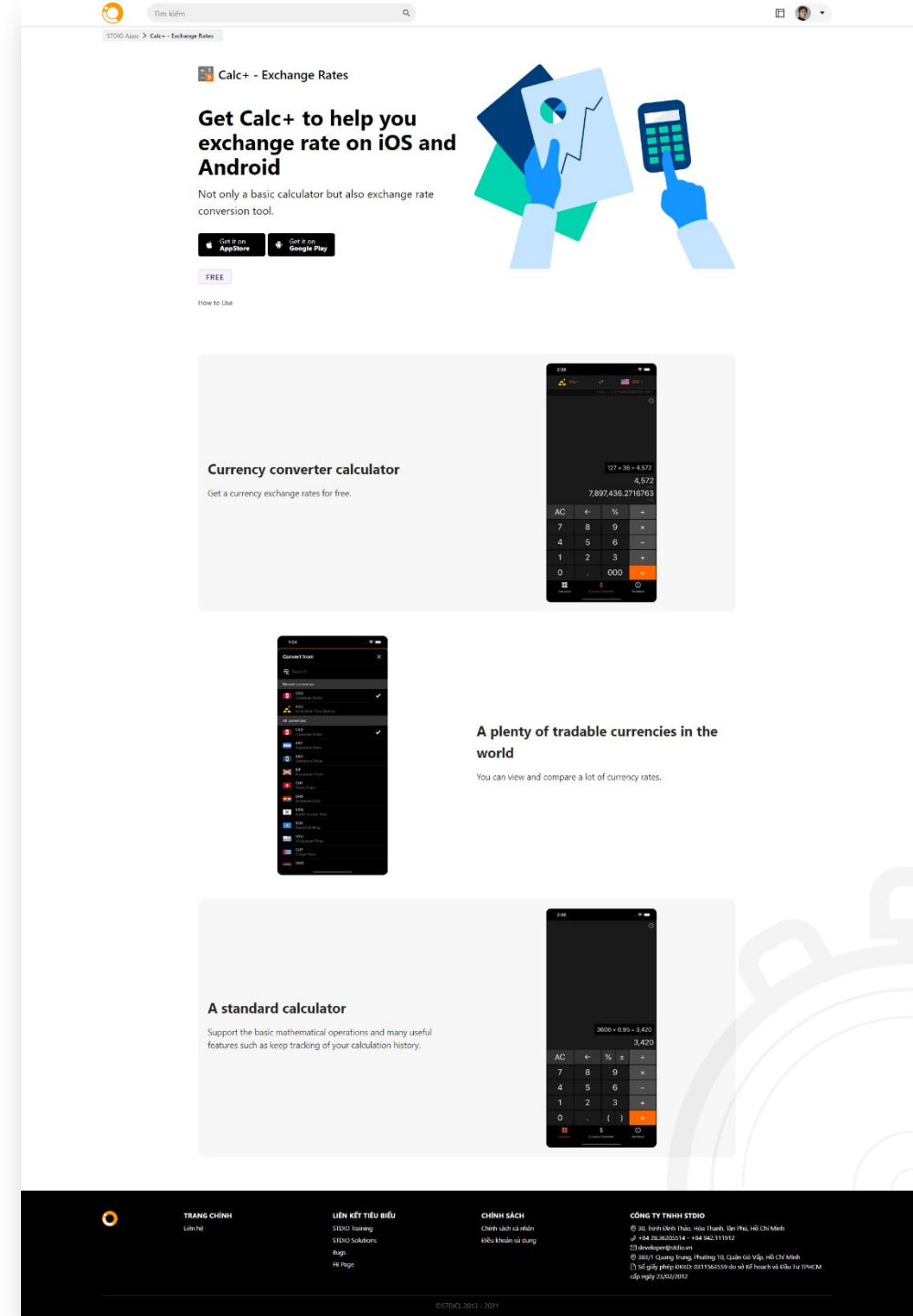
Center align page.

Use sticky or fixed, flex for header.

Use grid, flex for banner and content.

Use grid for footer.

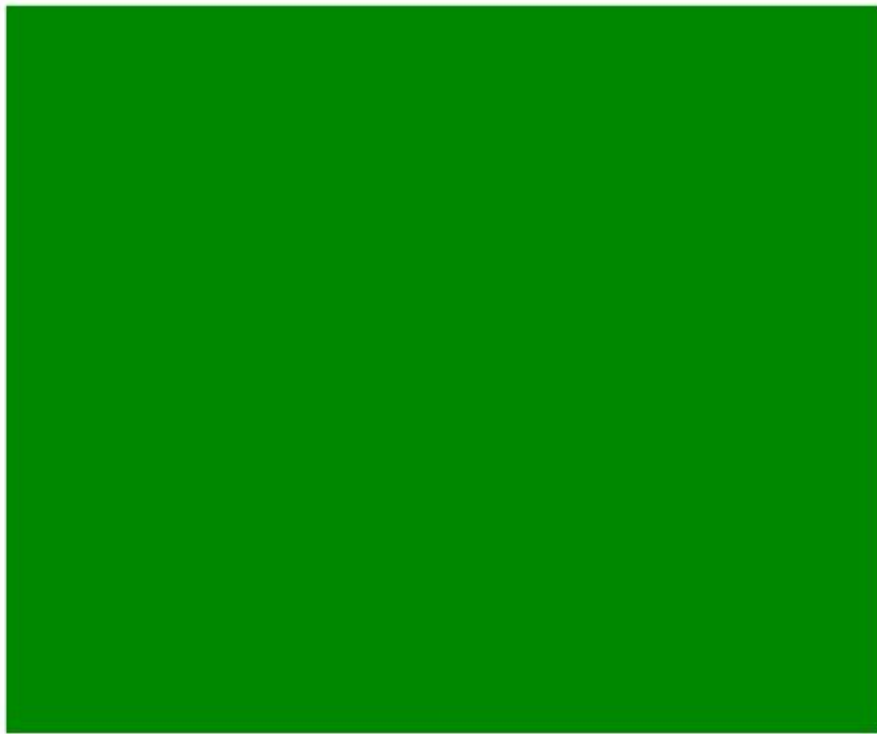
* No need to enough content.





Responsive

- What is purpose?
- How?
 - `<meta name="viewport" content="width=device-width, initial-scale=1.0">`
 - `@media`



@media in CSS3

```
@media screen and (max-width: 320px) {
```

```
  .wrapper {  
    width:100%;  
  }
```

```
}
```

@media in CSS3

```
@media only all and (max-width:320px)
      not screen (min-width:800px)
      print
      speech
```

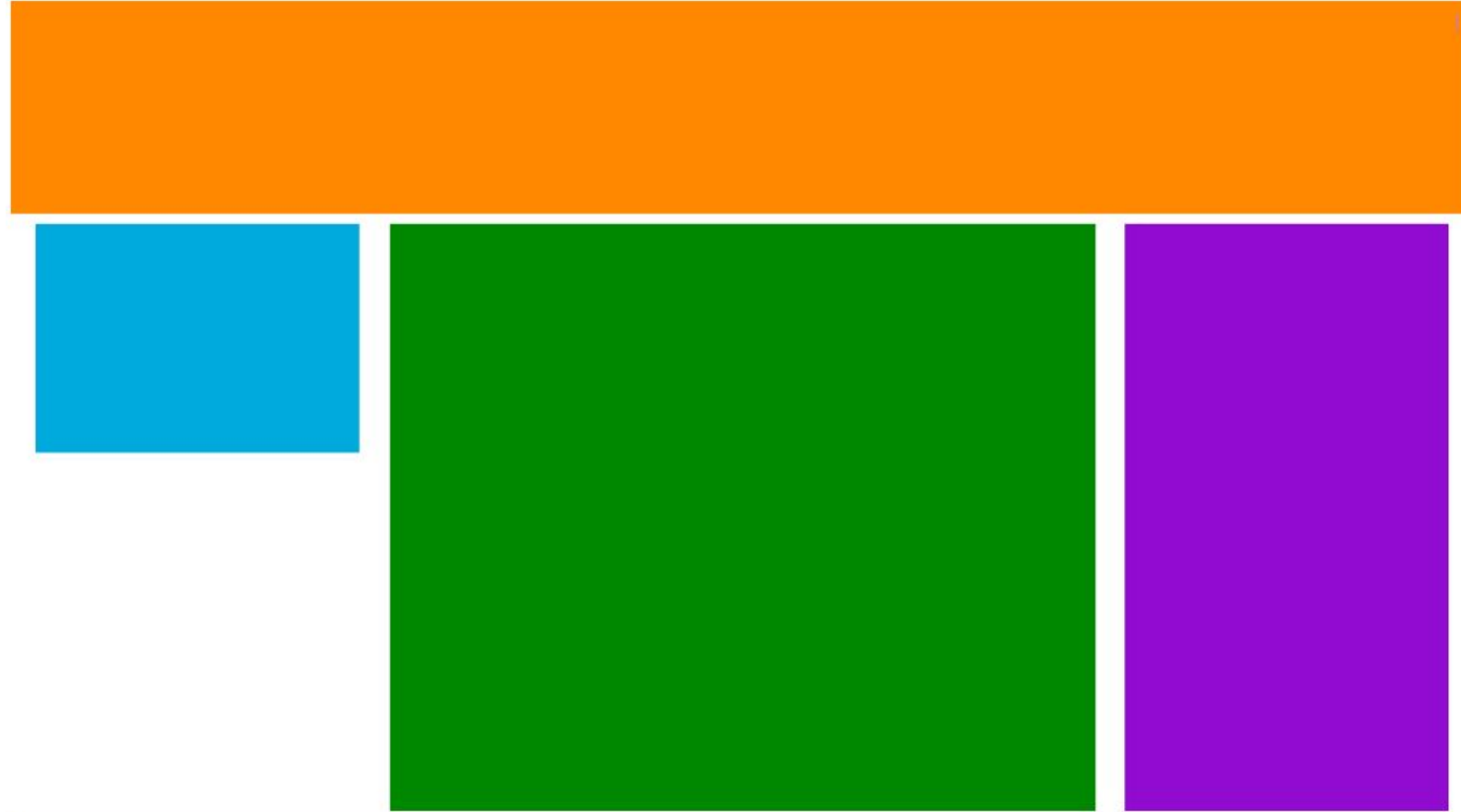
```
@media only all and (min-width:320px) and
      (max-width:800px)
```

```
@media only all and (min-width:320px) and
      (max-width:800px),
      (min-width:1000px)
```

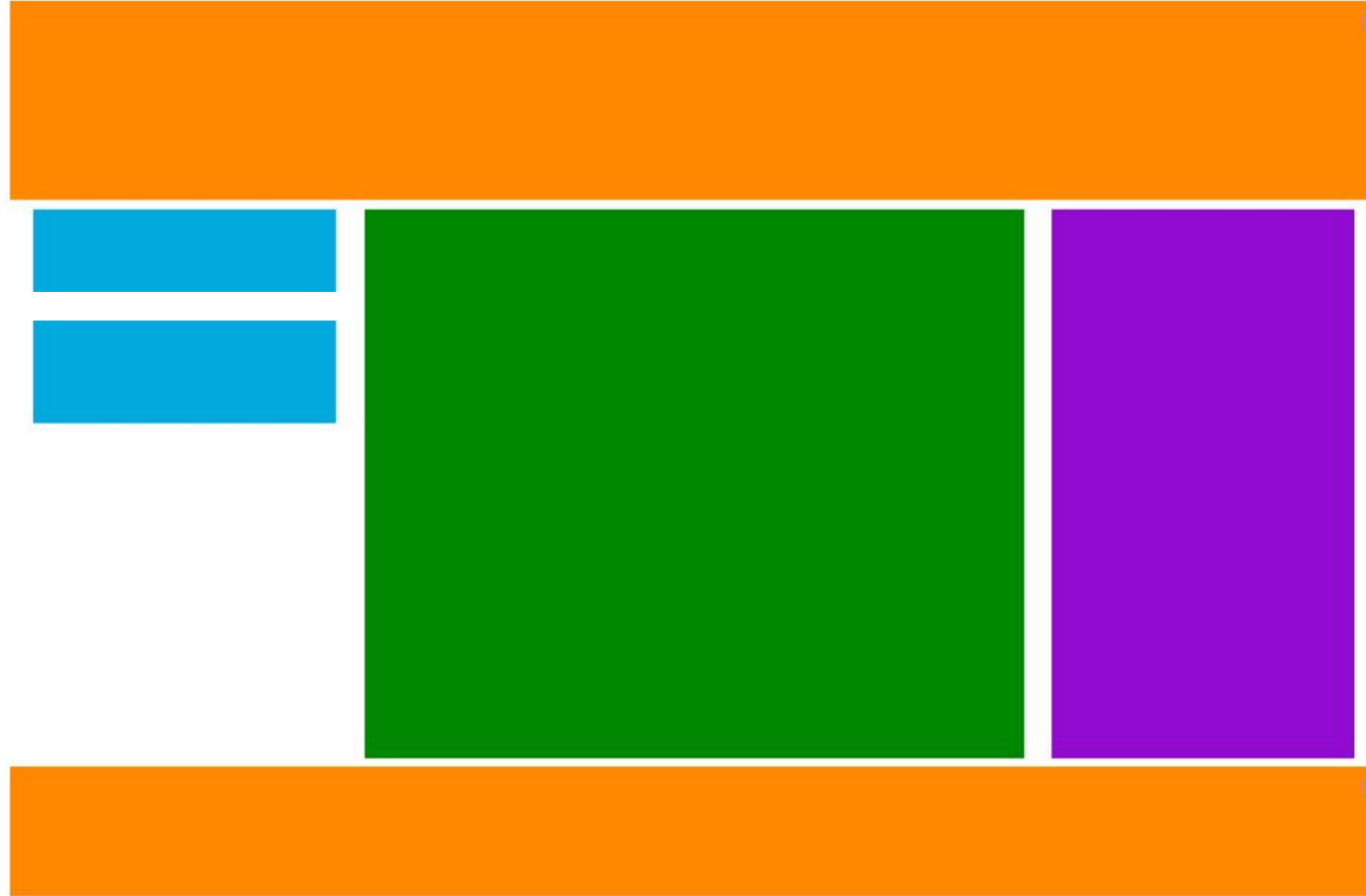
@media – orientation

```
@media only screen and  
    (orientation:landscape) and (min-width:320px)  
    portrait
```


How to build effective layout?



How to build effective layout?



Common mistake in design

1. Using “inline” components and expect browser control.
2. Grouping components that have difference features.
3. Repeated selectors (`button_nav_active`).
4. Using CSS without convention.
5. Using append class to control changing style (`class active`).

Effect

- hover
- focus

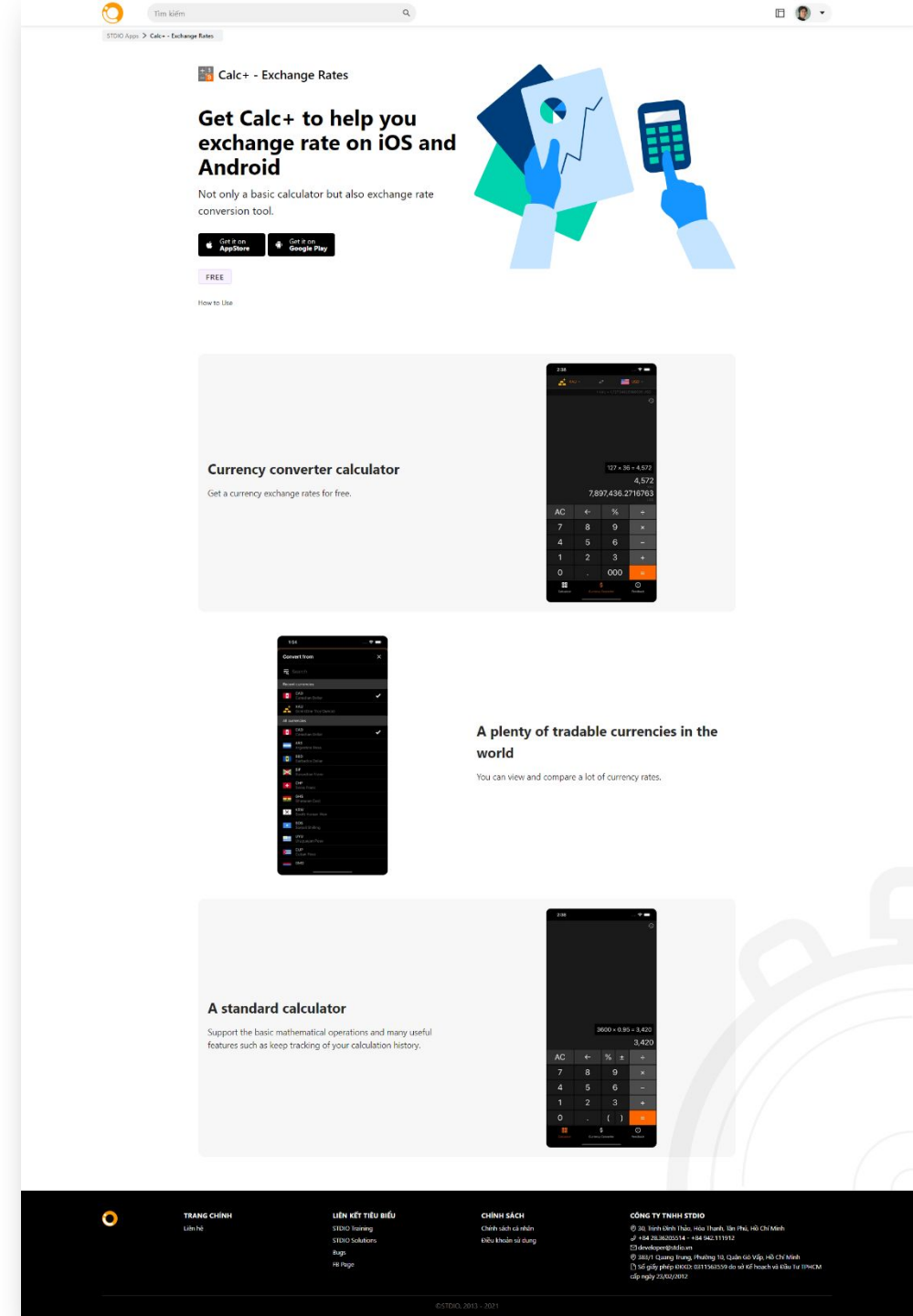
Practice build page make responsive

<https://www.stdio.vn/app/calculus>

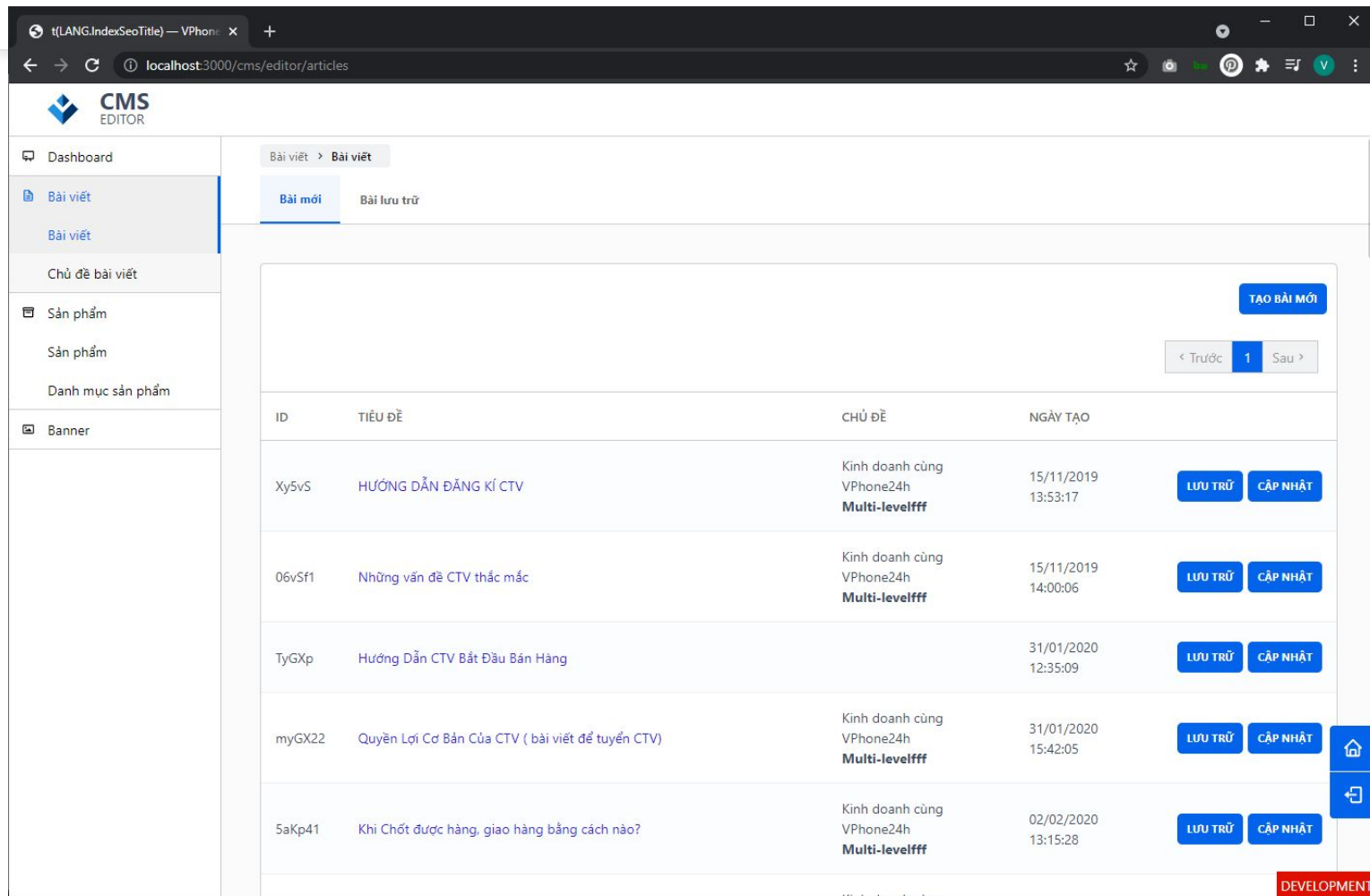
Get resource from link above

Focus on:

@media max-width 640px
override css style



Practice responsive



The screenshot displays a web browser window with the address bar showing `localhost:3000/cms/editor/articles`. The CMS Editor interface includes a sidebar on the left with navigation links: Dashboard, Bài viết (selected), Chủ đề bài viết, Sản phẩm, and Banner. The main content area shows a list of articles under the 'Bài viết' tab, with sub-tabs for 'Bài mới' and 'Bài lưu trữ'. A table lists five articles with columns for ID, TIÊU ĐỀ, CHỦ ĐỀ, and NGÀY TẠO. Each article row has 'LƯU TRỮ' and 'CẬP NHẬT' buttons. A 'TAO BÀI MỚI' button is in the top right, and a pagination control shows page 1 of 1. A 'DEVELOPMENT' badge is in the bottom right corner.

ID	TIÊU ĐỀ	CHỦ ĐỀ	NGÀY TẠO
Xy5vS	HƯỚNG DẪN ĐĂNG KÍ CTV	Kinh doanh cùng VPhone24h Multi-levelfff	15/11/2019 13:53:17
06vSf1	Những vấn đề CTV thắc mắc	Kinh doanh cùng VPhone24h Multi-levelfff	15/11/2019 14:00:06
TyGXp	Hướng Dẫn CTV Bắt Đầu Bán Hàng		31/01/2020 12:35:09
myGX22	Quyền Lợi Cơ Bản Của CTV (bài viết để tuyển CTV)	Kinh doanh cùng VPhone24h Multi-levelfff	31/01/2020 15:42:05
5aKp41	Khi Chốt được hàng, giao hàng bằng cách nào?	Kinh doanh cùng VPhone24h Multi-levelfff	02/02/2020 13:15:28