

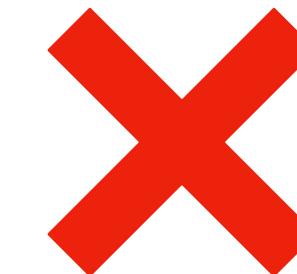
# **Web101 Intro**

# Members

HTML

CSS

Javascript



# 什么是HTML



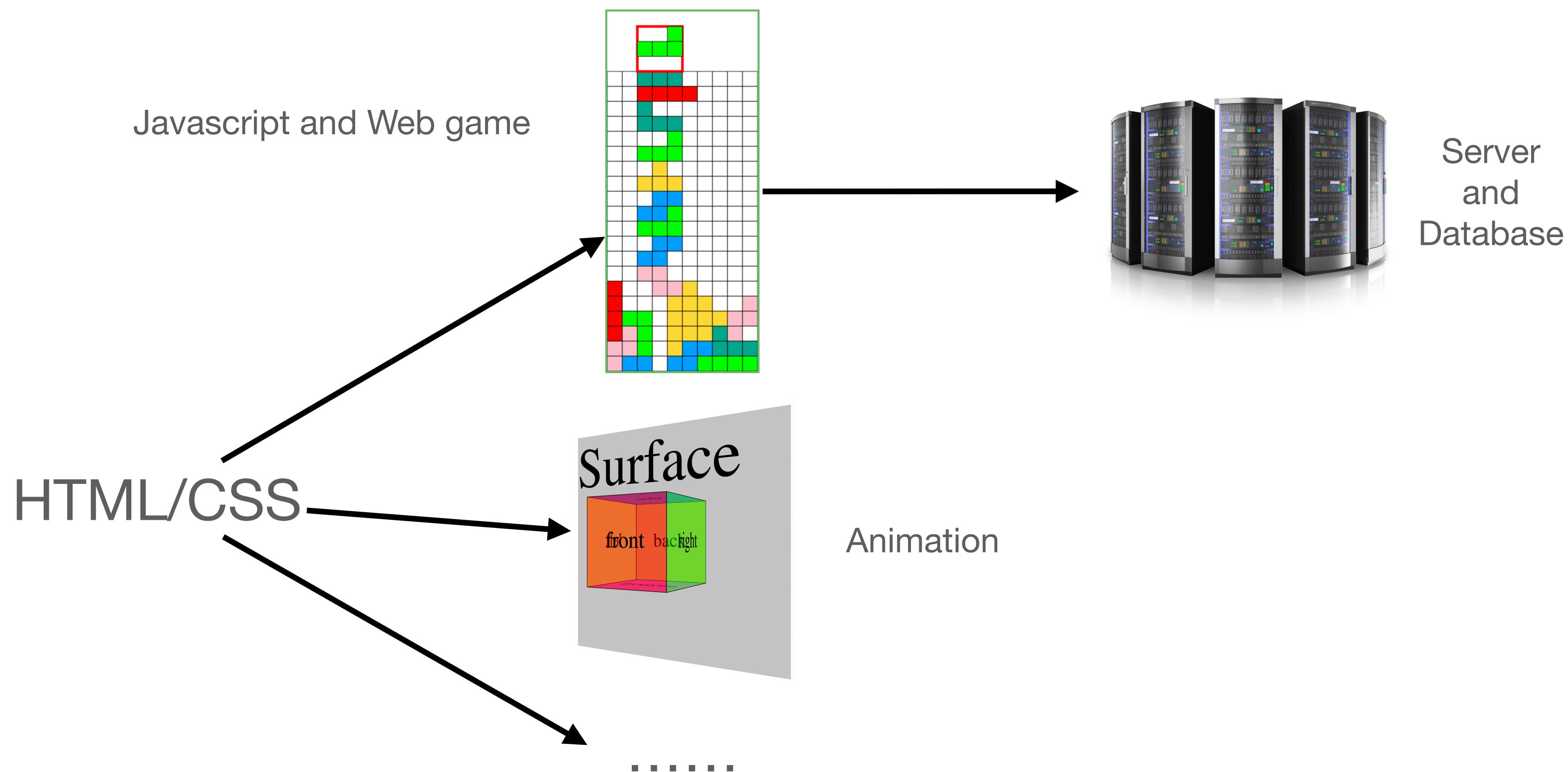
# 什么是CSS



**HTML is for data  
CSS is for styling**

HTML is for data  
and its meaning

# HTML/CSS is base



# Demo

- Styling:
  - List to navigation
  - Text shadow
- Position
- Layout
- Responsive
- Animation
- Redesign/Recreate a webpage

# Including

- 2 languages: HTML, CSS
- Write a lot of files
- 1 personal website
- recreate 2 webpages
- if you complete well, you get a certification

# What to do with Web101?

- Personal website

23 of the Best Personal Websites to Inspire Your Own

<https://blog.hubspot.com/marketing/best-personal-websites>

<http://www.garysheng.com>

<https://blog.hubspot.com/marketing/best-personal-websites>

- Your business website

- Other websites for people

- Co-ops

- Jobs

# Summary

**Web101 = Coding + Art**

**(Web user interface)**

# Web101

# Download

- Brackets



<https://brackets.io>

- Chrome



<https://www.google.com/chrome/>

- ZOOM

# How to learn

- Type code and discuss in class
- Spend 1-2 hour practice after class
- do practice in a group

Learn from  
me

practice  
at home

# Brackets extensions

- emmet
- beautify (edit -> beautify on save)
- Display shortcut
- Confetti

# File structure

- C:\\_a\html\_css

or

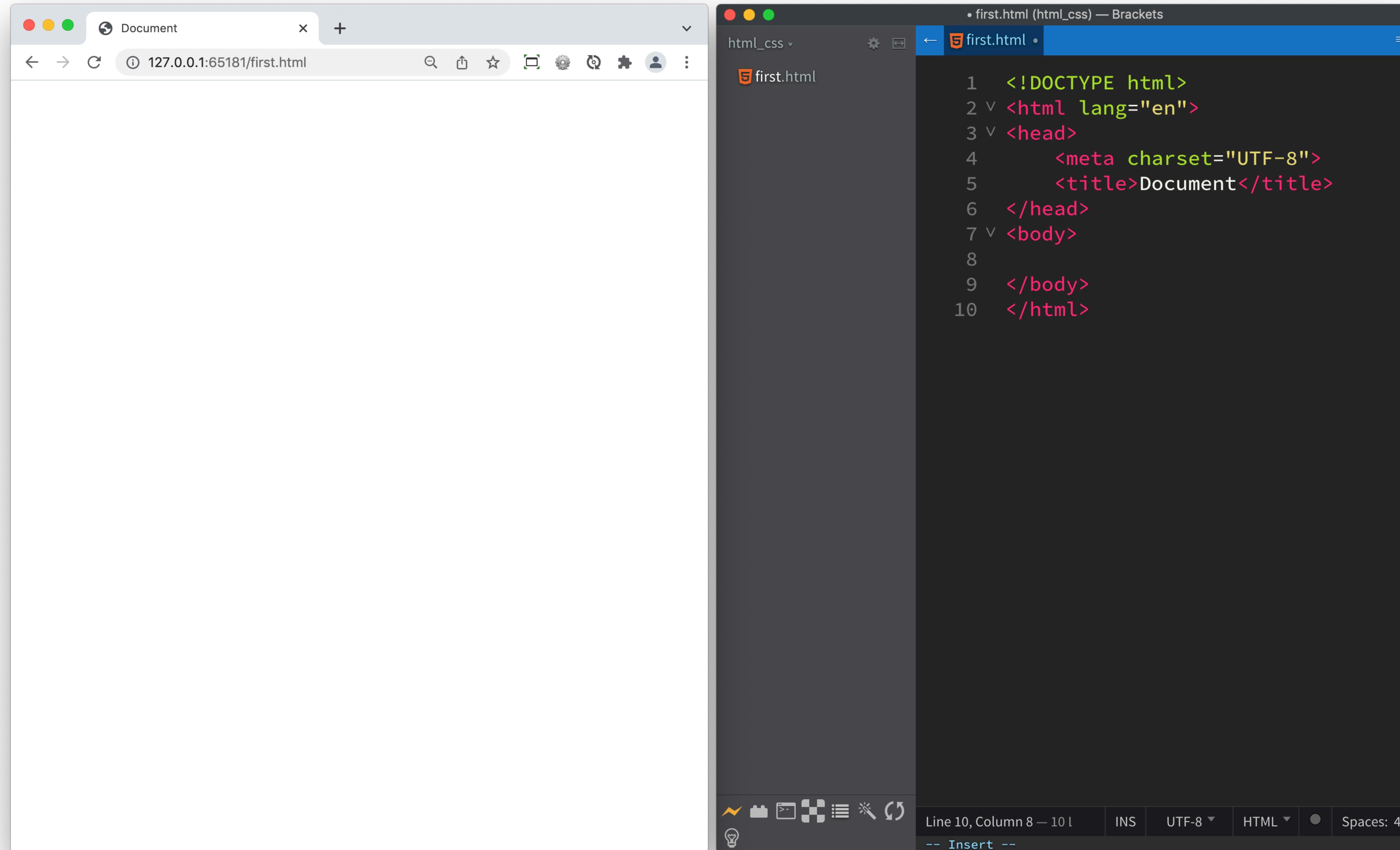
- ~/\\_a/html\_css

# Live preview

127.0.0.1



# Layout (half and half)



The image shows a 'half and half' layout where a web browser and a code editor are displayed side-by-side.

**Left Side (Web Browser):** A browser window titled 'Document' is open at the URL '127.0.0.1:65181/first.html'. The page content is completely blank, showing only the white space of the browser's rendering area.

**Right Side (Code Editor):** A code editor window titled 'first.html (html\_css) — Brackets' is open. It displays the following HTML code:

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Document</title>
6  </head>
7  <body>
8
9  </body>
10 </html>
```

The code editor interface includes a toolbar with various icons, a status bar at the bottom showing 'Line 10, Column 8 — 10 l', and settings for 'INS', 'UTF-8', 'HTML', and 'Spaces: 4'.

# Layout

The screenshot shows the Brackets IDE interface. The top menu bar includes Brackets, File, Edit, Find, View, Navigate, Emmet, Window, Debug, and Help. The title bar indicates the file is 'list.html (html\_css) — Brackets'. A green status bar at the top says 'You are screen sharing' and has a 'Stop Share' button. Below the menu is a toolbar with various icons. The main area has three tabs: 'first.html', 't.html', and 'list.html'. The 'list.html' tab is active, displaying the following code:

```
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5    <meta charset="UTF-8">
6    <title>Document</title>
7  </head>
8
9  <body>
10
11   <ul>
12     <li>tennis</li>
13     <li>hiking</li>
14     <li>talk with friend</li>
15   </ul>
16
17 </body>
18
19 </html>
20
```

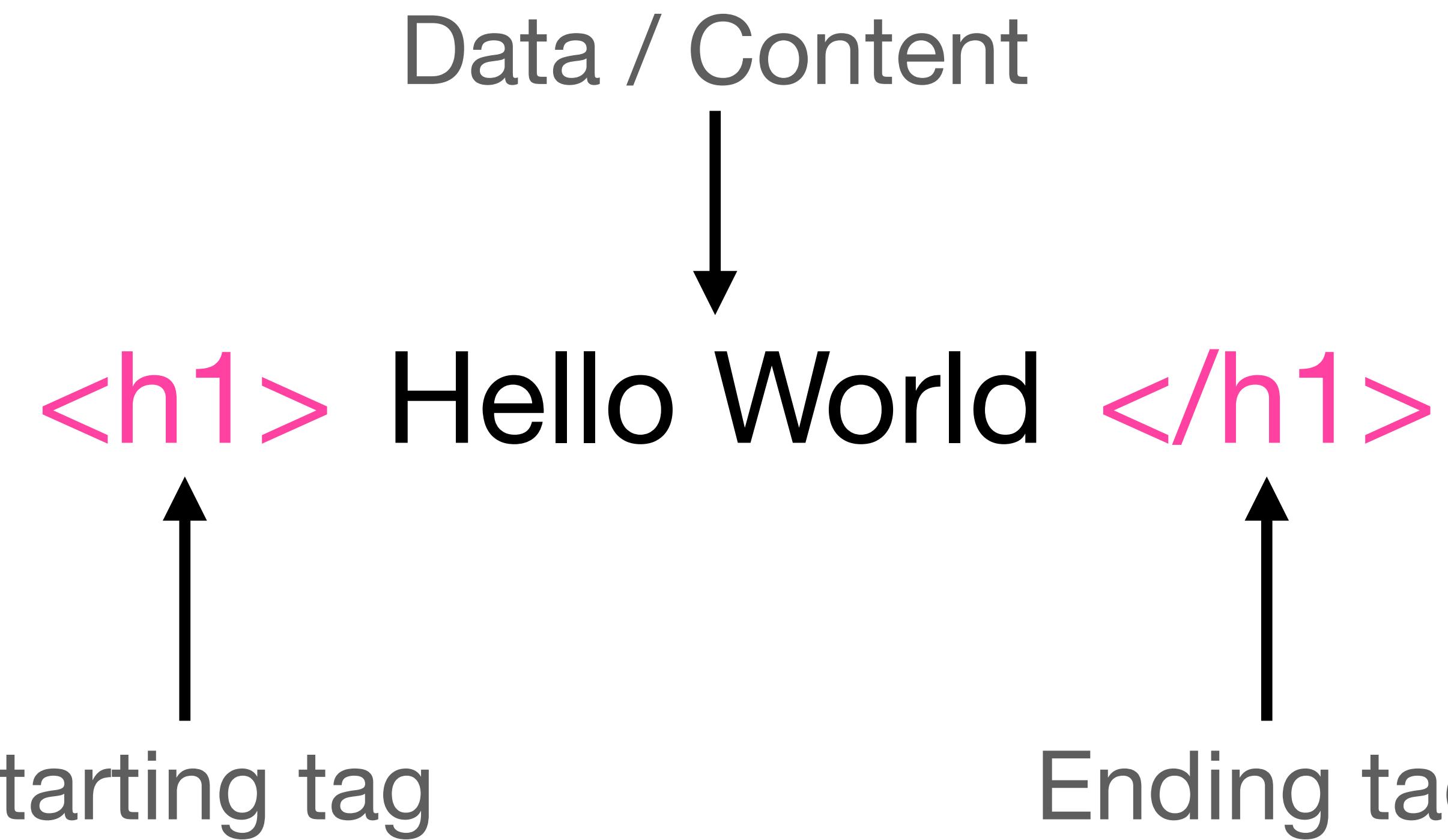
The left sidebar contains a 'Form' section with items like <form>, <label>, <textarea>, etc., and a 'List' section with <ol>, <li>, <ul>, <dl>, <dt>, <dd>. The bottom left shows a preview of the list items: tennis, hiking, talk with friend.

HTML is all about Data:

- use tag to enclose data
- provide data a meaning (semantic)

`<h1> Hello World </h1>`

`<button> Ok </button>`





↑

Attribute

This diagram illustrates the structure of an HTML attribute. Below the previous diagram, the text "" is shown. A single upward-pointing arrow points to the "src" attribute, which is labeled "Attribute" below it.

# HTML file structure

```
<!DOCTYPE html>
<html lang="en">

    <head>
        <meta charset="UTF-8">
        <title>Document</title>
    </head>

    <body>
        data → <h1>Hello World!</h1>
        </body>

    </html>
```

# Common format problems

<h1> Hello world </h1

<h1> Hello world <h1>

<h1> Hello world

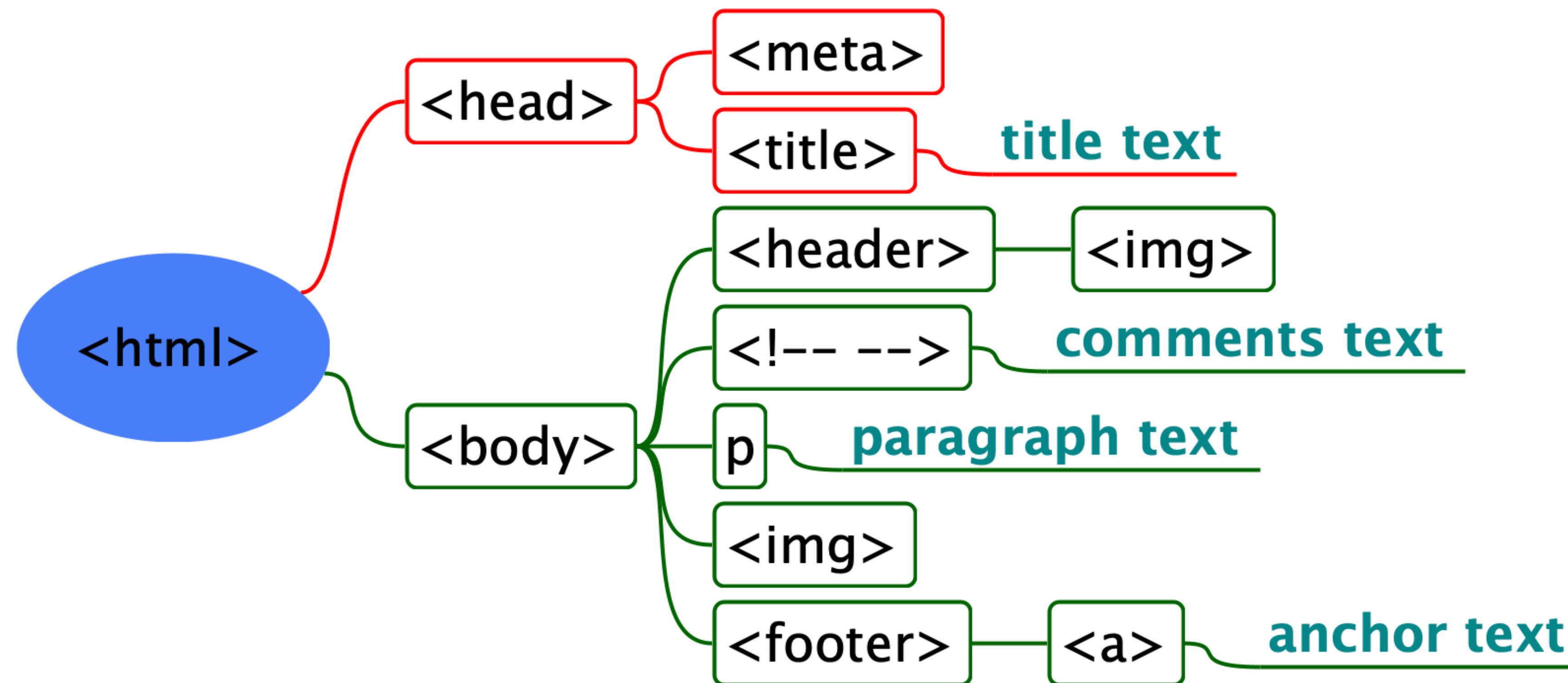
! <tab>  
generate templage

lorem200, lorem50

1st checkpoint:  
Know how to write HTML  
by yourself?

Share code (google doc)

# HTML tree structure



# url

url encoding

http://teensprogramming.com:8080?name=jason%20baker&password=123

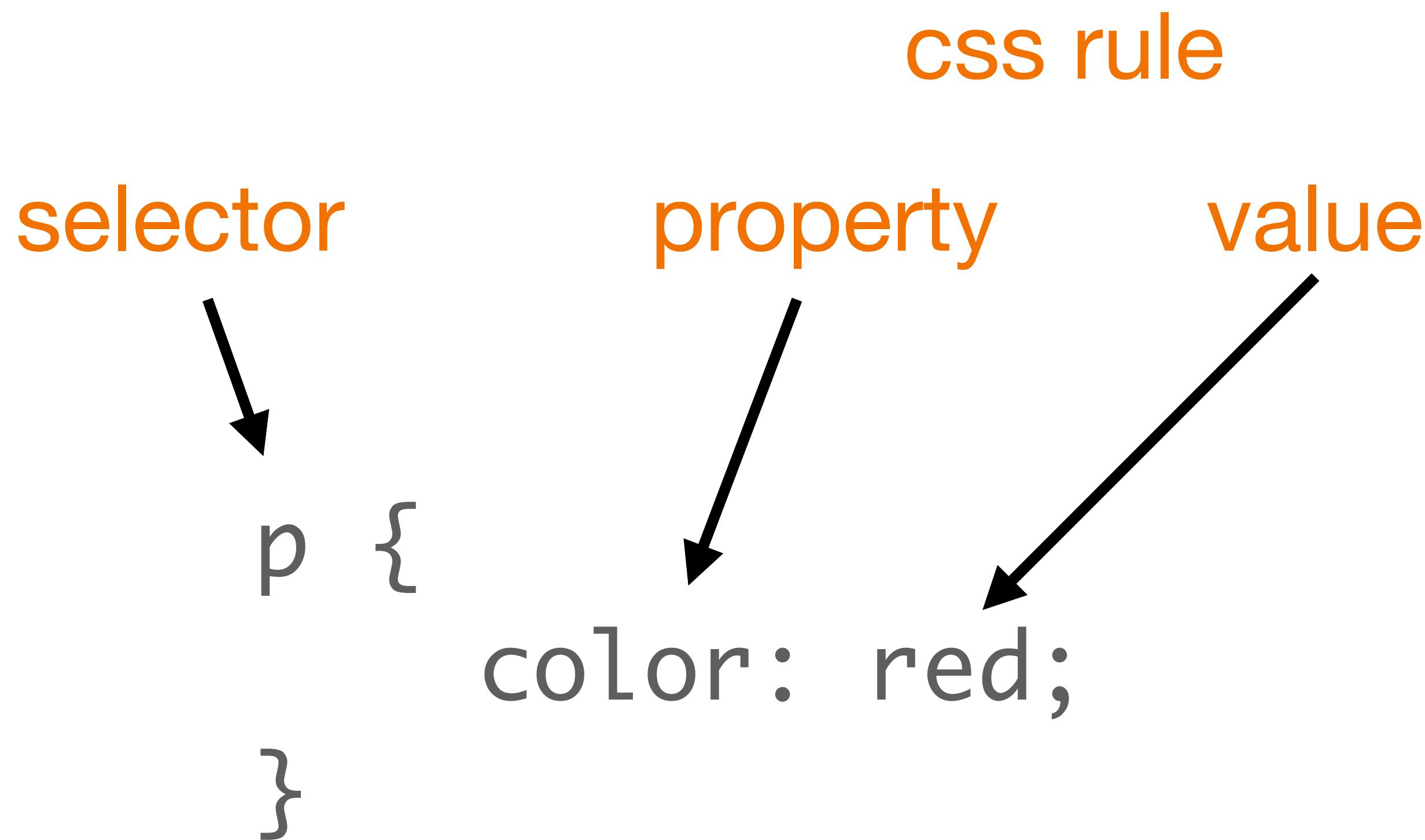
protocol

domain

port key

value seperator

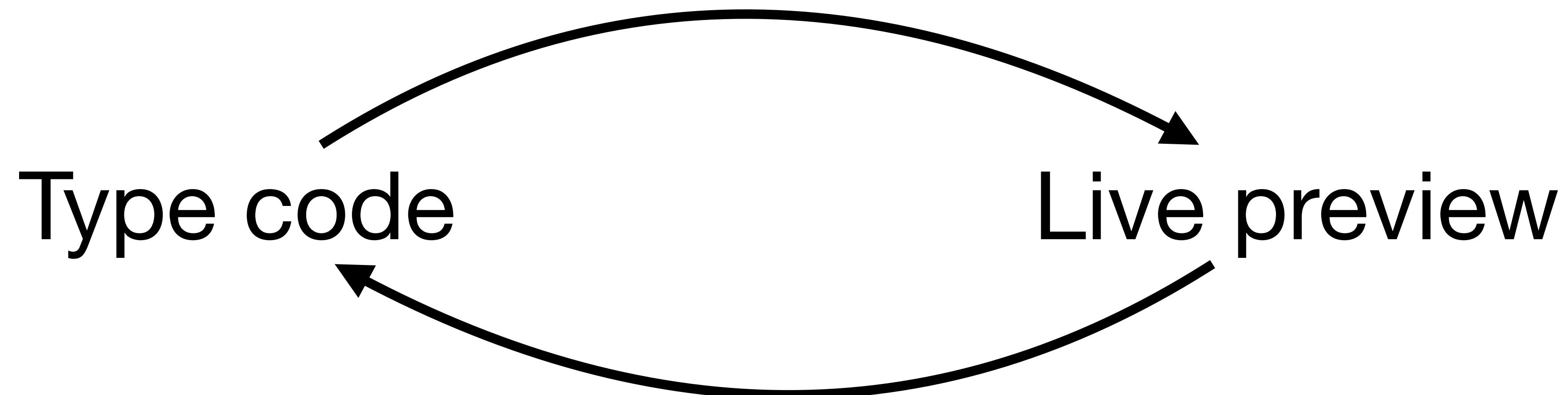
# CSS



# Shortcut

- mac: cmd-a, cmd-c, cmd-v  
windows: ctrl-a, ctrl-c, ctrl-v
- undo: ctrl-z
- comments:
  - mac: cmd-/
  - windows: ctrl-/
- duplicate a line: ctrl-d
- remove a line: shift-ctrl-d
- live preview:
  - mac: opt-cmd-p
- open/close dev tools:
  - mac: opt-cmd-i
- make font larger:  
ctrl-+

# Practice interaction

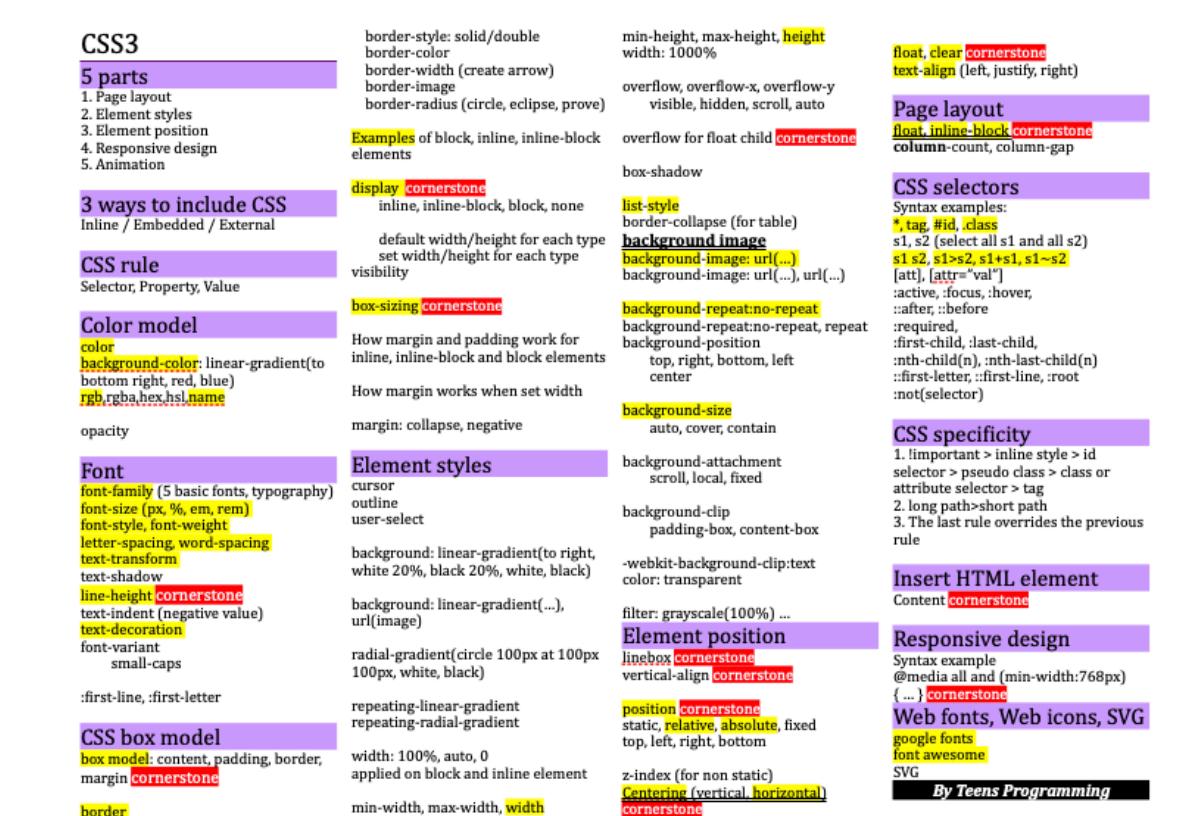


# 20 classes (40 hours)

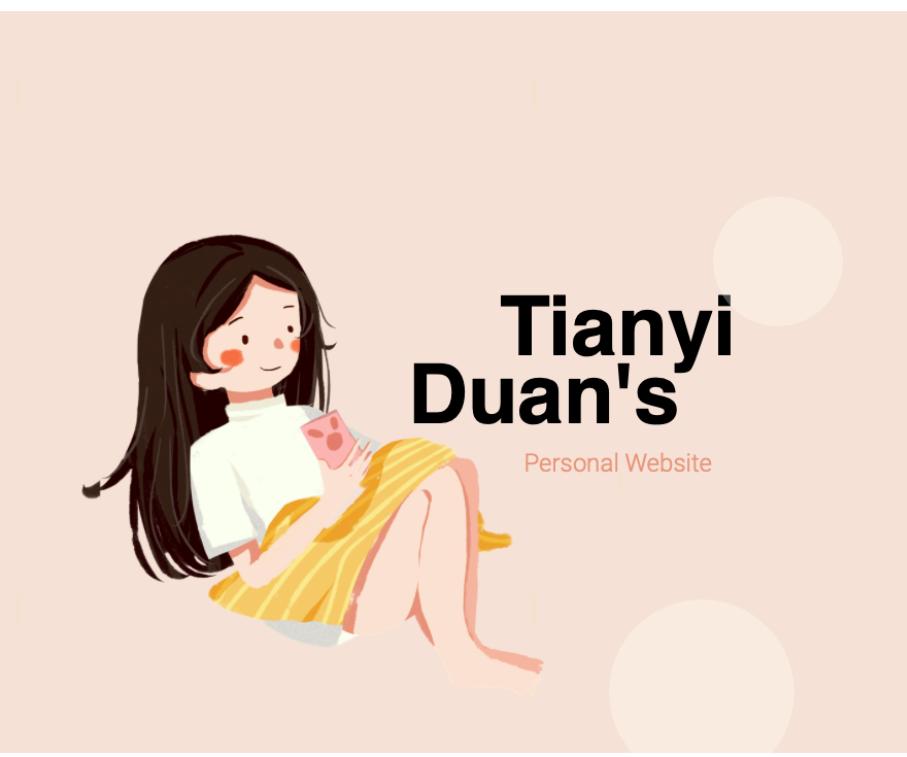
# HTML cheatsheet



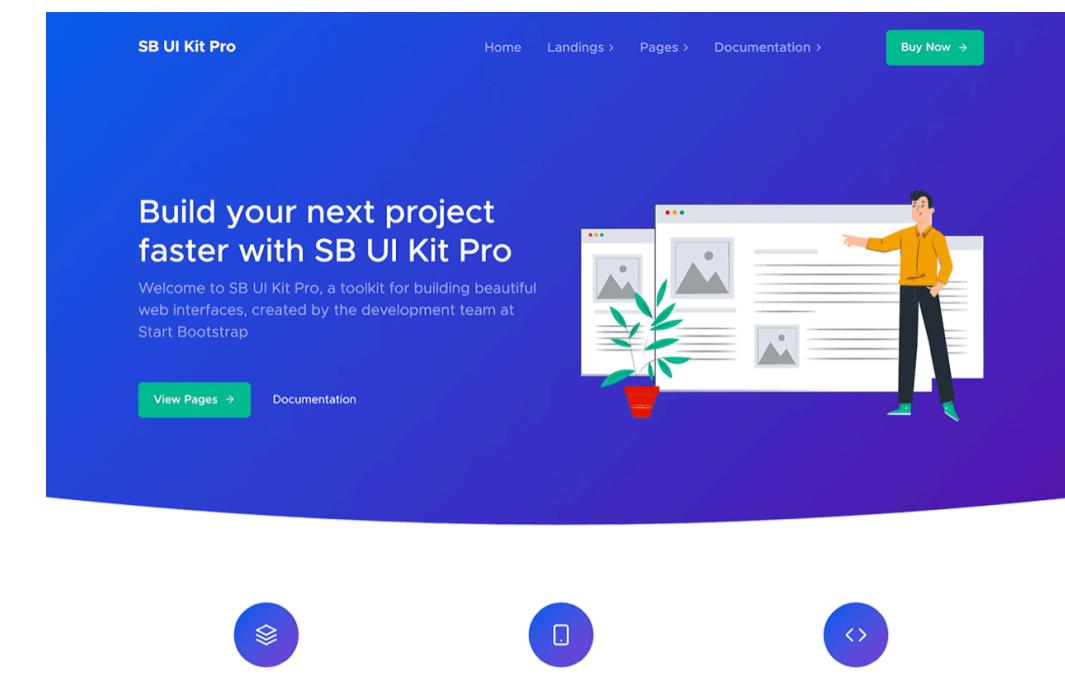
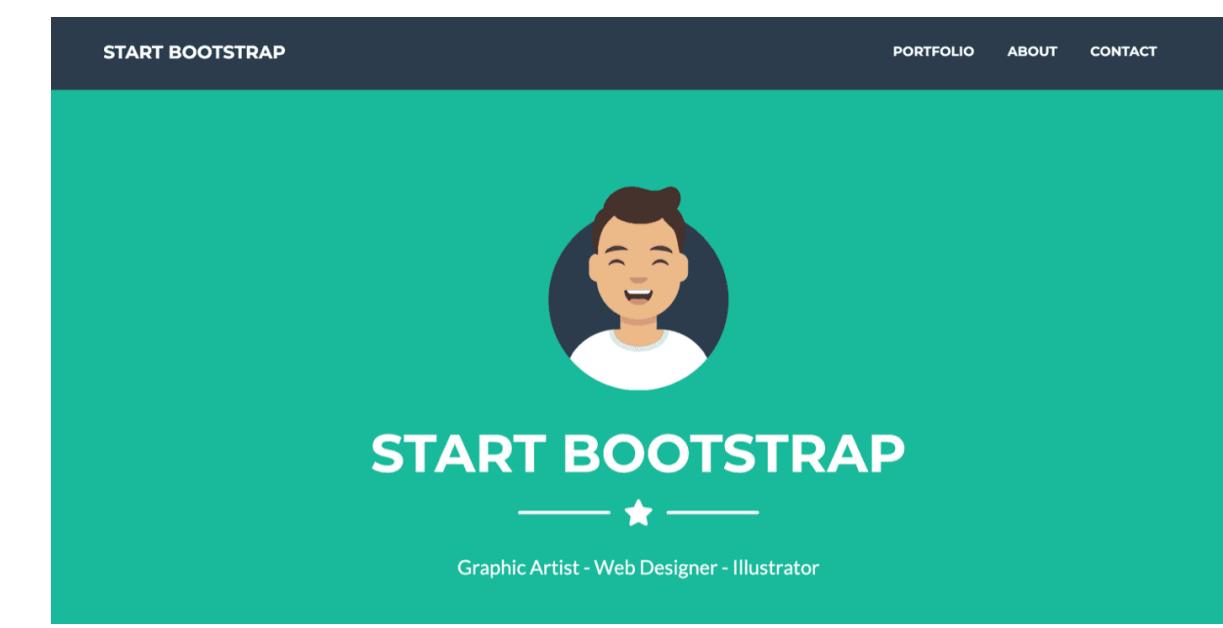
# CSS cheatsheet



# Your personal webpage



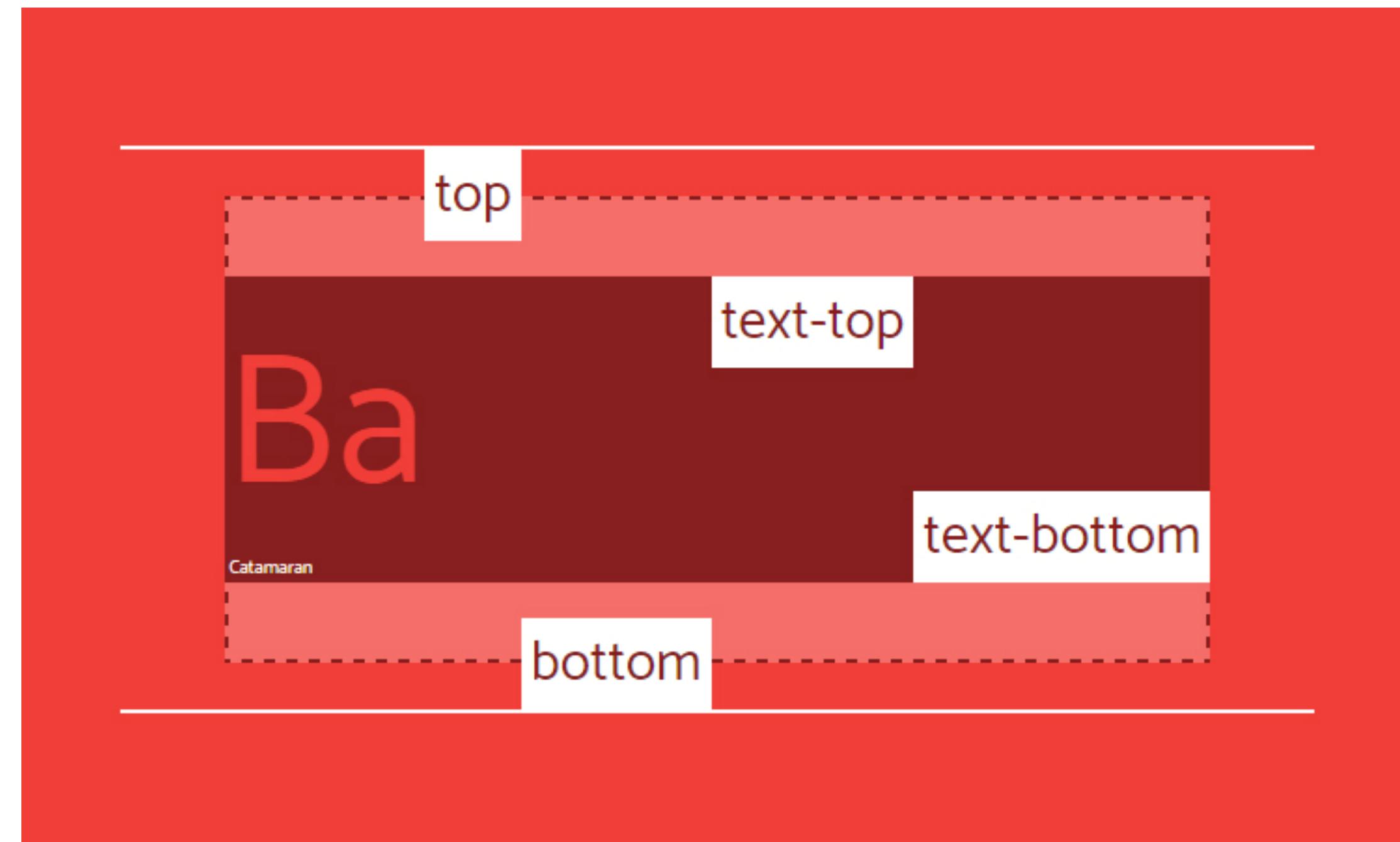
# Recreating 2 professional designed web pages



## Marks

1. box model, display, horizontal center 60
2. position 70
3. page layout 80
4. responsive design 90
5. box-sizing, overflow for float, content 100

# Vertical-align



<https://iamvdo.me/en/blog/css-font-metrics-line-height-and-vertical-align>

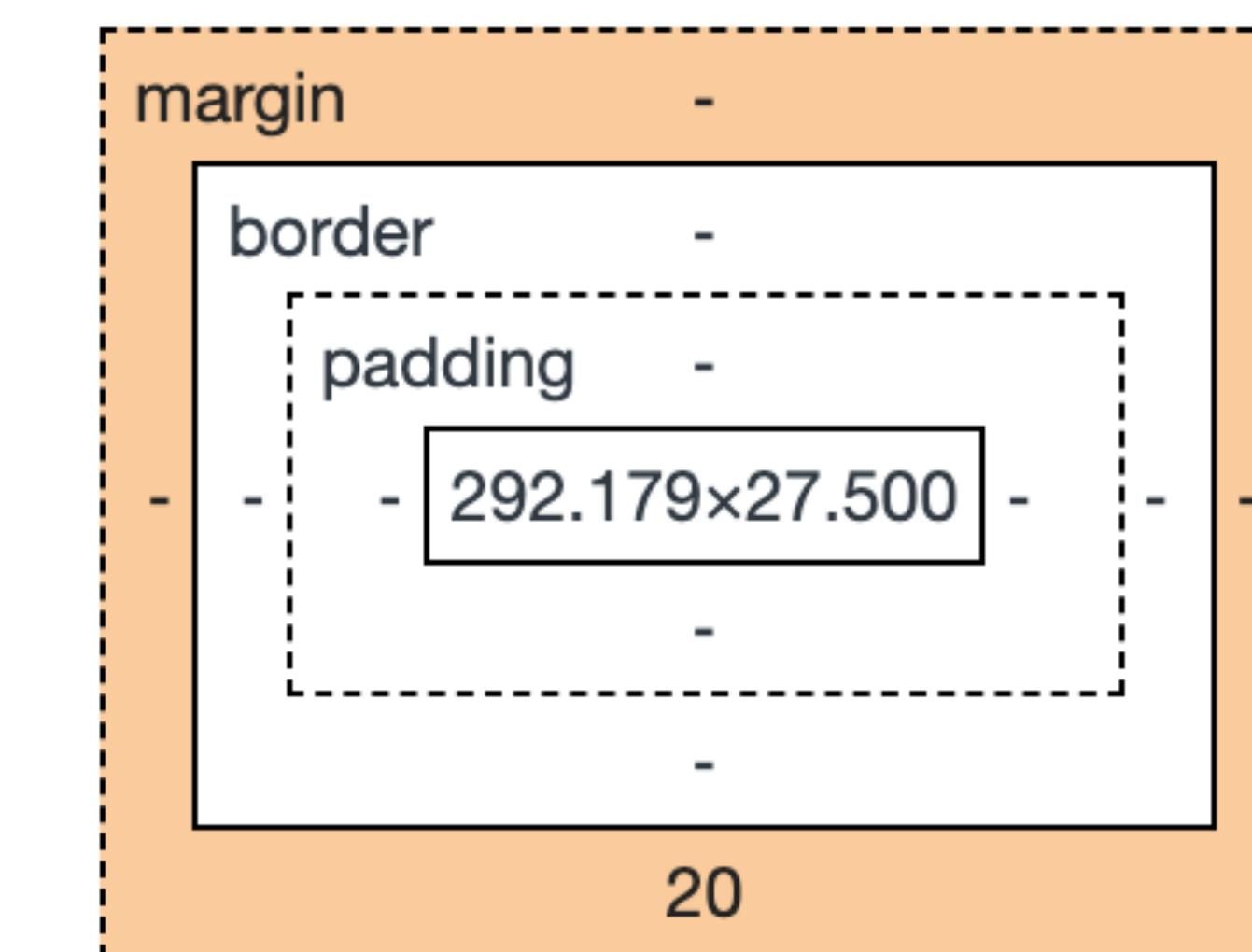
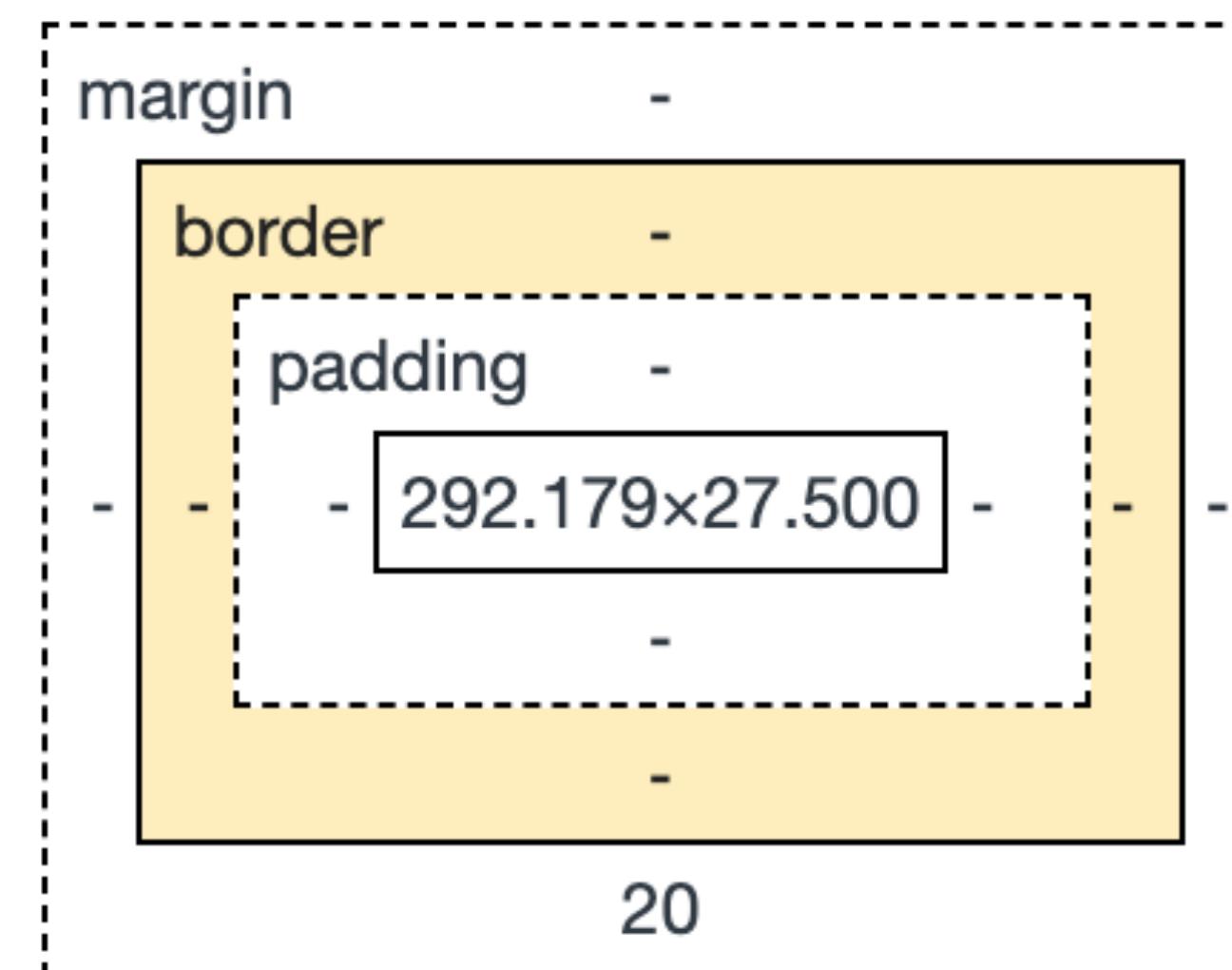
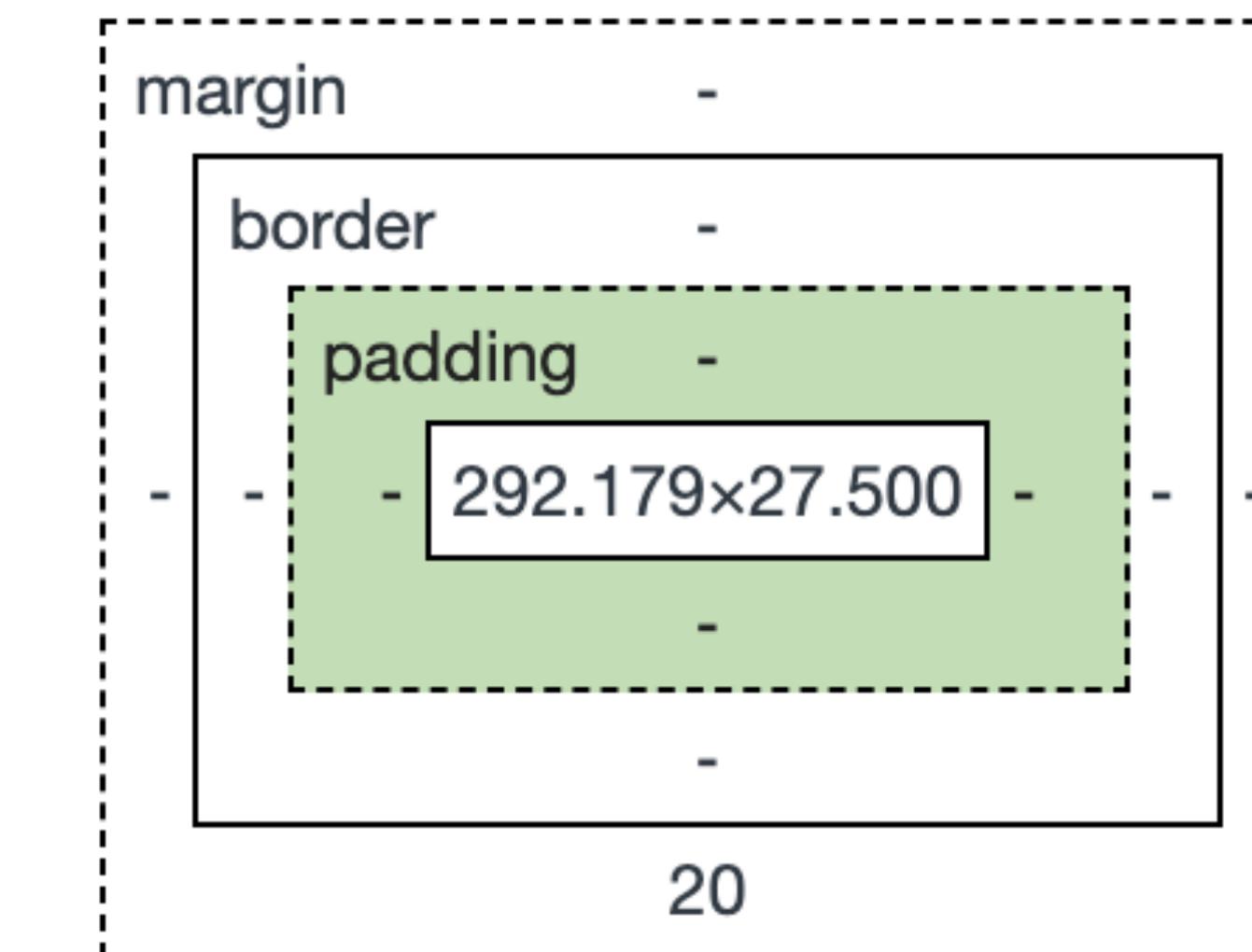
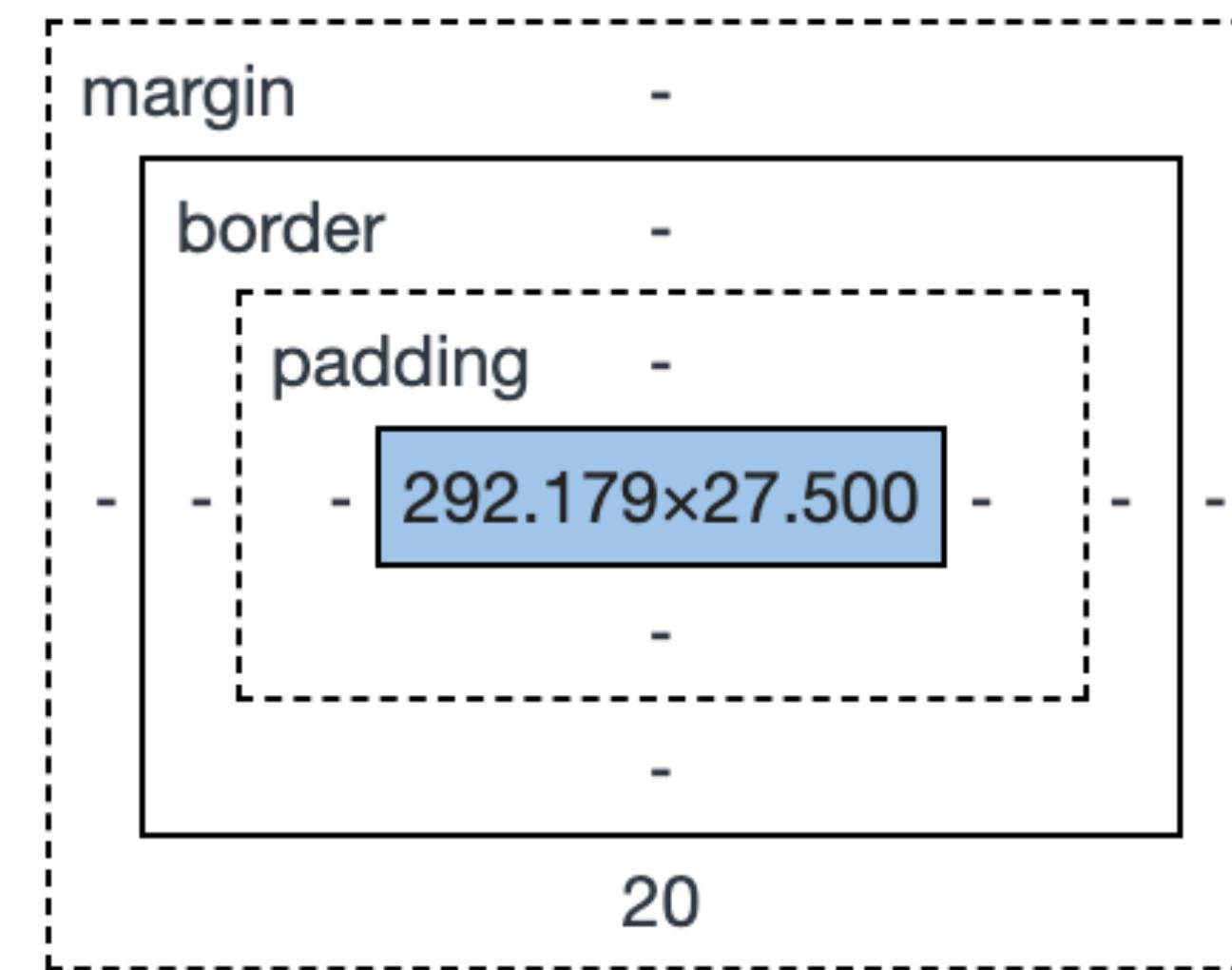
# line box



```
a {  
    border: solid;  
    text-decoration: none;  
    height: 200px;  
    width: 300px;  
    text-align: center;  
}
```

```
a {  
    border: solid;  
    text-decoration: none;  
    height: 200px;  
    width: 300px;  
    text-align: center;  
    /*           */  
    line-height: 300px;  
}
```

# Content, Padding, Border, Margin



# display: block, inline-block, inline



# Horizontal Centering

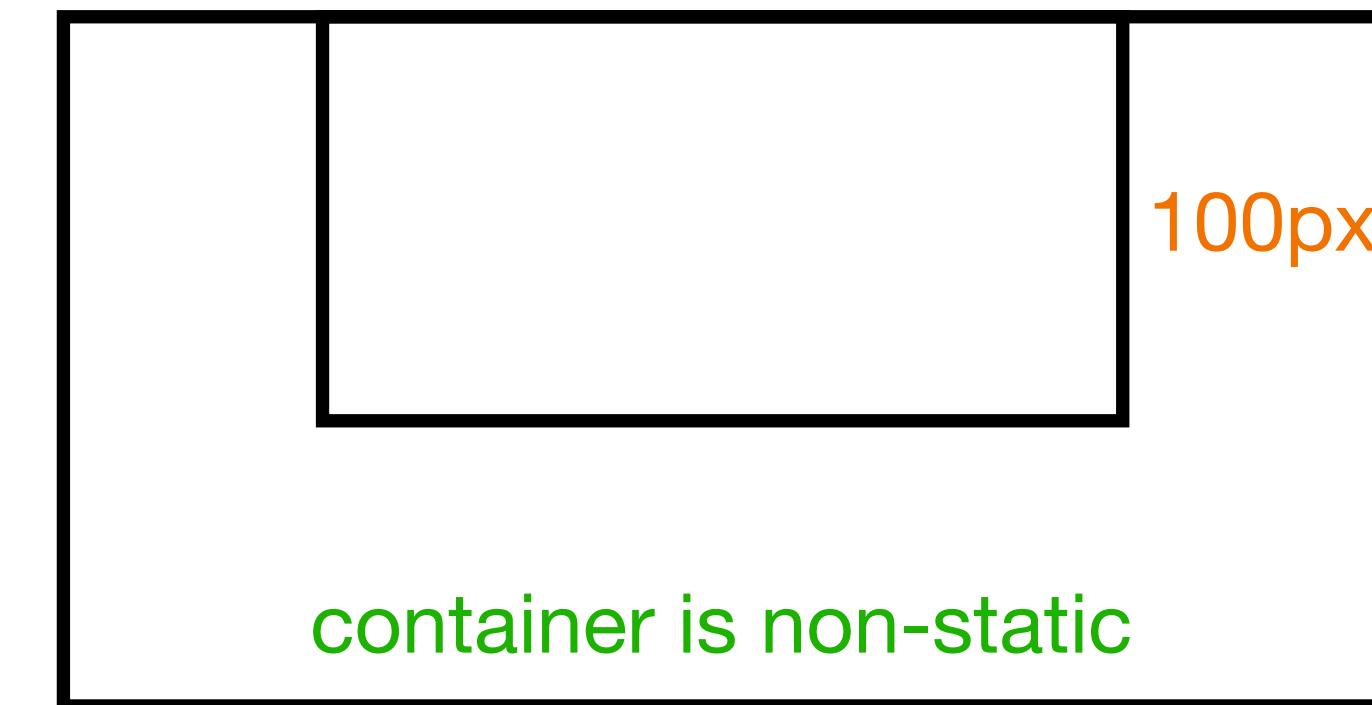
- For block element, using ‘margin:auto’
- For Inline element including inline-block: using ‘text-align:center’ in the element’s container

# Position

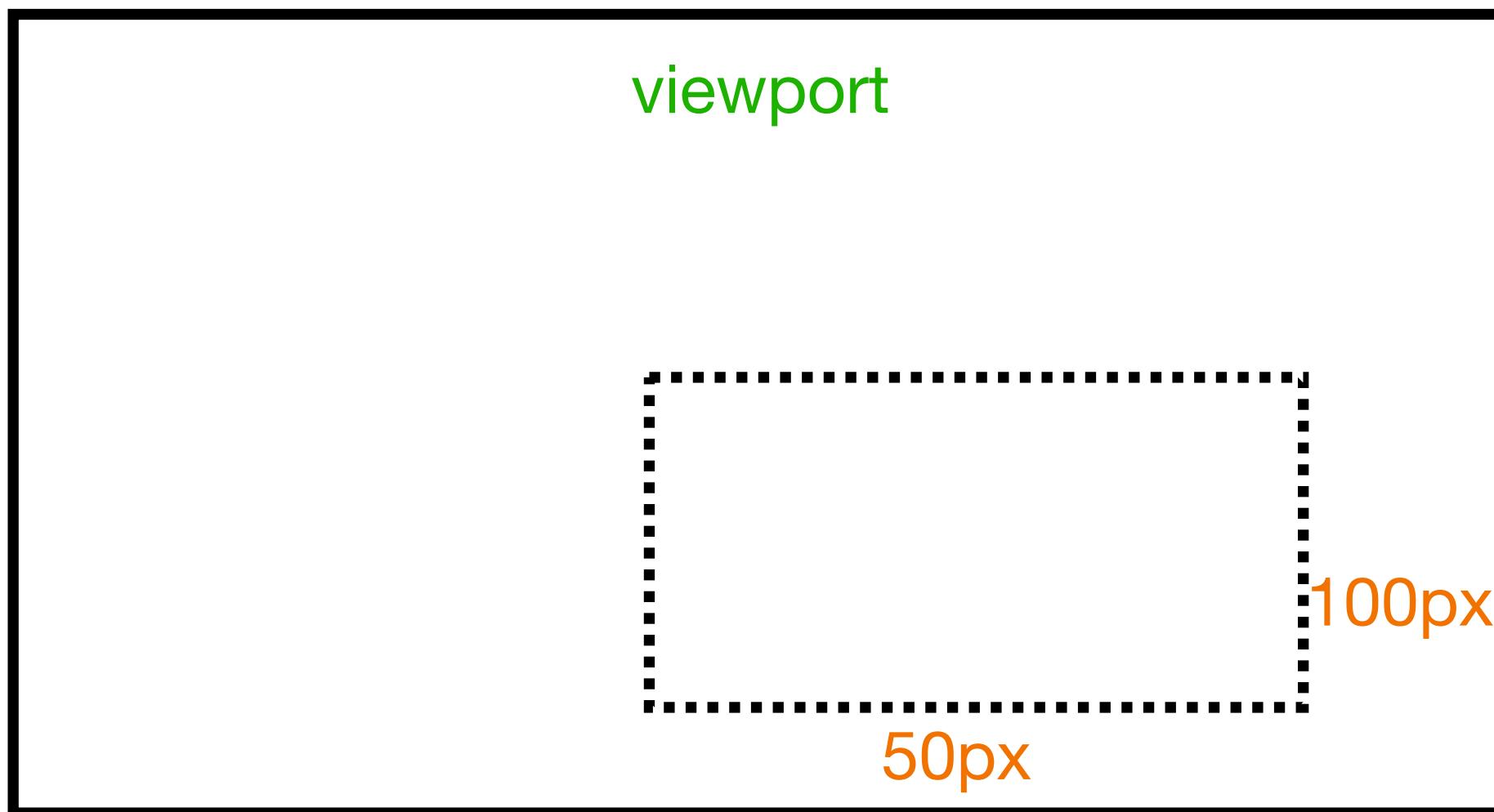
position: relative  
right: 100px



position: absolute  
right: 100px



viewport



position: fixed  
right: 100px  
bottom: 50px

box-sizing

float, clear

# Do Layout

inline-block      float

# Environment part 1

Code remote repository	Github
Web hosting	Github pages
Editor	Brackets, extensions
Chrome	Dev tools

# Environment



# Environment part 2

Code manage tool

Git and its 3 commands

Code local repository

Clone remote repository to c:\

# Environment



# git

1

1. register github account
2. create new repository:  
your\_account\_name.github.io
3. check your website

2

1. download git and install
2. (for windows) open git bash; cd /c/\_a  
(for mac) open terminal; cd ~/a
3. git clone remote\_repository
4. open brackets,  
open repository folder,  
create 'index.html'

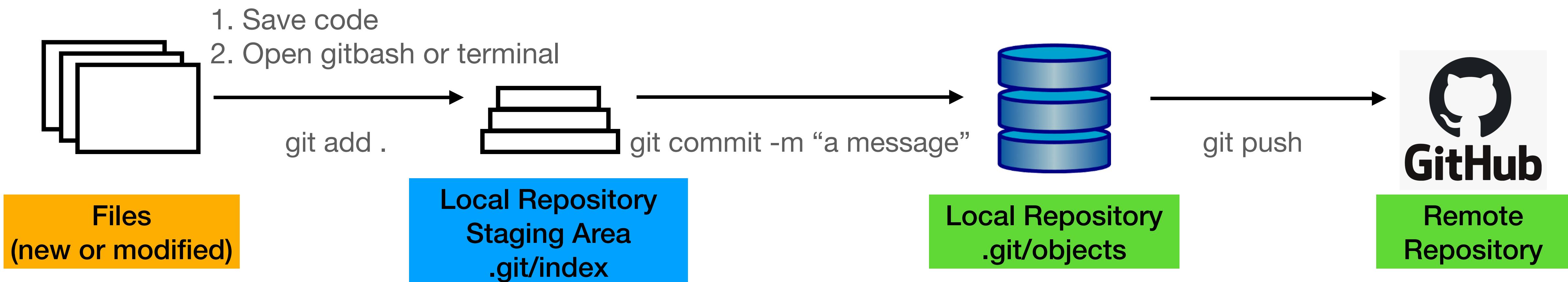
3

1. (for Windows) cd /c/\_a/repository  
(for Mac) cd ~/a/repository
2. git config --global user.email "your\_email"
3. git config --global user.name "your\_name"

4

1. (for Windows) cd /c/\_a/repository  
(for Mac) cd ~/a/repository
2. git add .
3. git commit -m "message"
4. (optional) create github token
5. git push
6. check github repository contents
7. check website

# Git 3 commands



Home

Outdoor

Package

Truck