



# **Web Development** in a remote environment



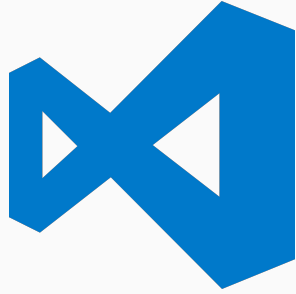
[tinyurl.com/ironhack-webinar](https://tinyurl.com/ironhack-webinar)

# Agenda for today ?

- Set up your remote dev environment
- Brief intro on HTML, CSS, JavaScript
- Why do we need **HTML**
- Advantages of **CSS**
- Deeper into **JavaScript** syntax
- **Github** and **Git**
- **Deploy a simple site**

# 1. Install a **Code** Editor

Top Code Editors today



**VSCode**



**Atom**



**Jetbrains**



**Brackets**



**SublimeText**

# Install VSCode and Git

<https://code.visualstudio.com/download>

<https://git-scm.com/downloads>

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So what is  
**HTML, CSS and JavaScript ?**

# HTML

- Stands for **HyperText Markup Language**
- It is a markup language to define the **structure** of a web page.
- **Not a programming language**

# CSS

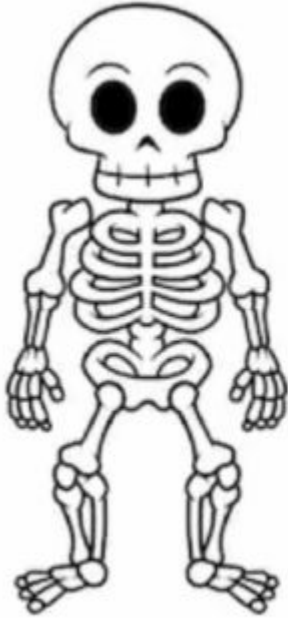
- Stands for **Cascading Style Sheet**
- It is a style language to **style the markup** for a web page.
- **Not a programming language**

# JavaScript

- **It is a programming language**
- Used to **add interactiveness** in a web page.
- Do not confuse JavaScript with Java. Both are different programming languages



# HTML vs CSS vs JAVASCRIPT



HTML



HTML + CSS



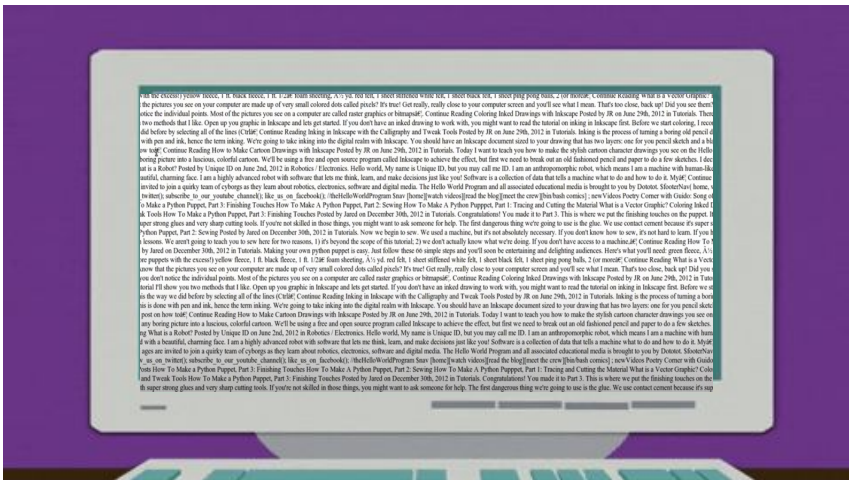
HTML+CSS+JavaScript



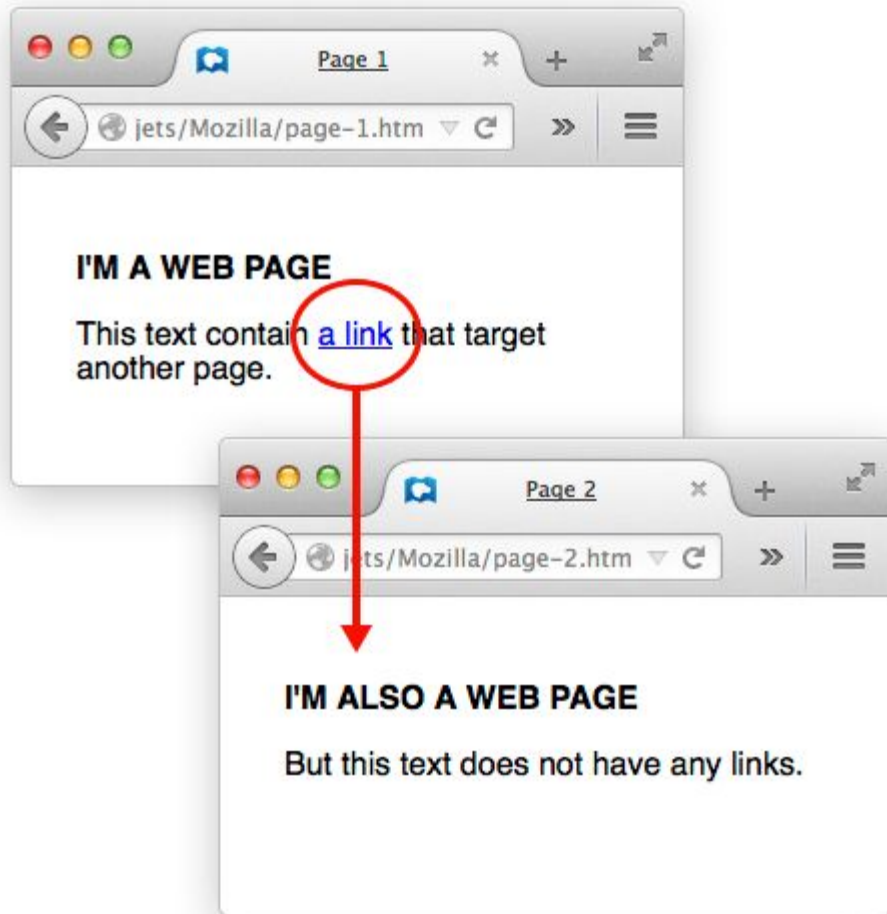
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**Why do we need HTML ?**



# Hyperlink



```
<!DOCTYPE html>
<html>
  <p>
    This is a paragraph of text written in <b>HTML</b>:
  </p>
</body>
</html>
```



## How do we write **HTML** code?

- Tags
- Elements
- Attributes

Opening tag

Closing tag

`<p>`My cat is very grumpy`</p>`

Content

Element





Attribute



```
<p class="editor-note">My cat is very grumpy</p>
```

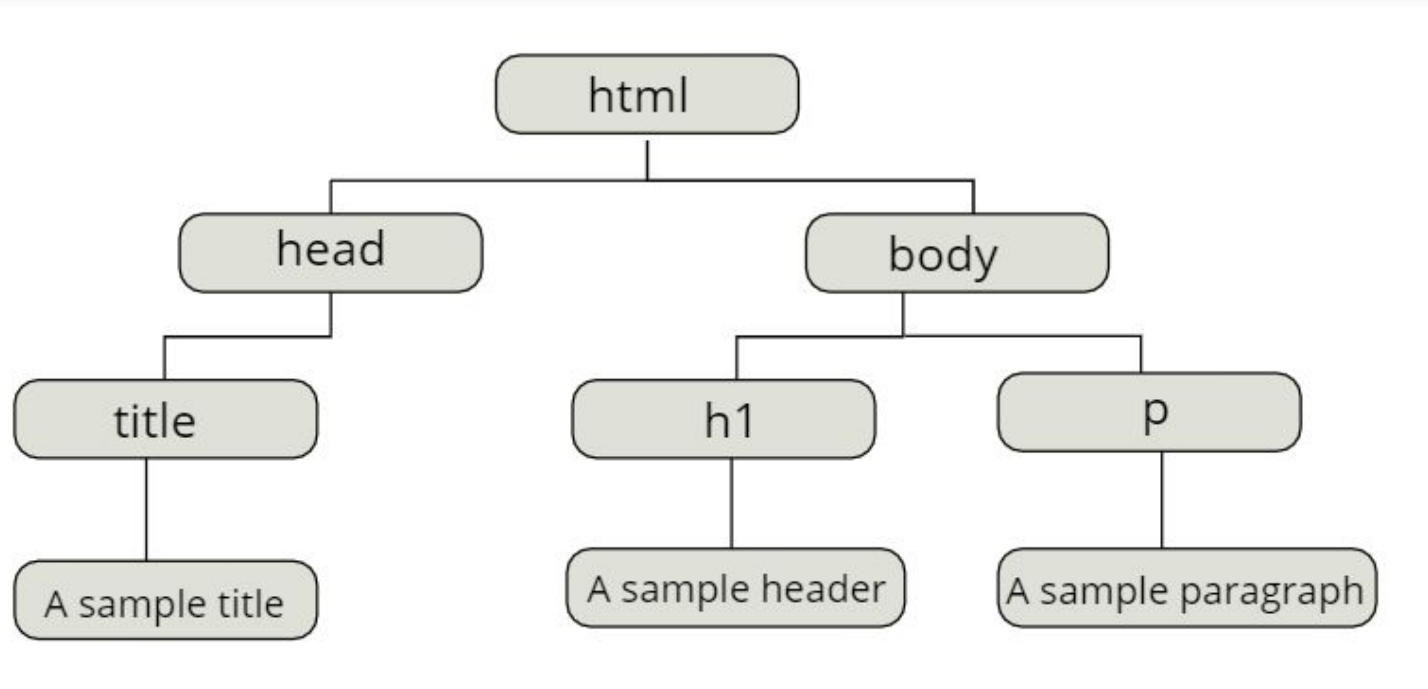
The diagram illustrates the structure of an HTML tag. A horizontal line with vertical end-caps is positioned above the opening tag. A vertical line descends from the center of this horizontal line to the word 'class' in the tag. The word 'class' is highlighted in blue, and the value '"editor-note"' is highlighted in orange.

<https://tinyurl.com/all-html-elements>

## HTML Elements we need today

- `<html>`
- `<head>`
- `<title>`
- `<body>`
- `<div>`
- `<img>`
- `<link>`
- `<script>`





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**What is CSS?**



**HTML**



**HTML + CSS**



**HTML + CSS  
+ JAVASCRIPT**

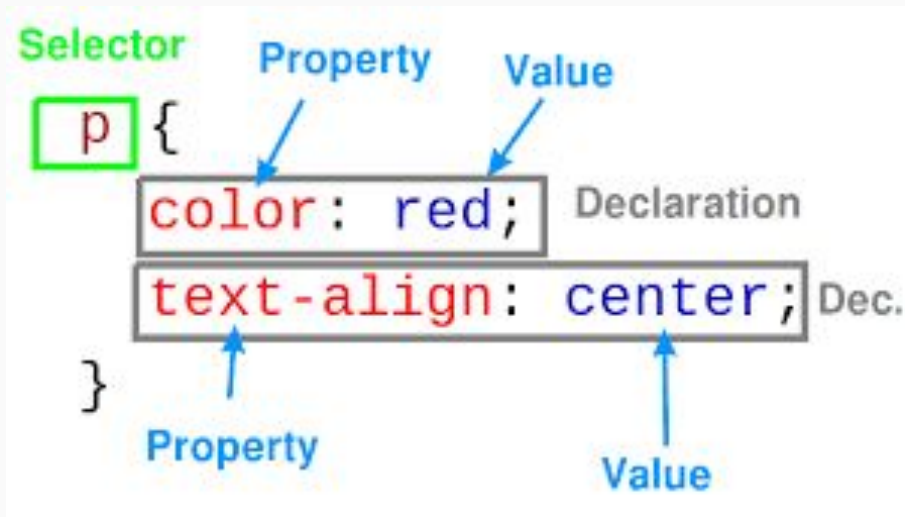
# Ways to target elements in css

- use the **element** name
- use a **`class`** attribute
- use an **`id`** attribute





# Css syntax

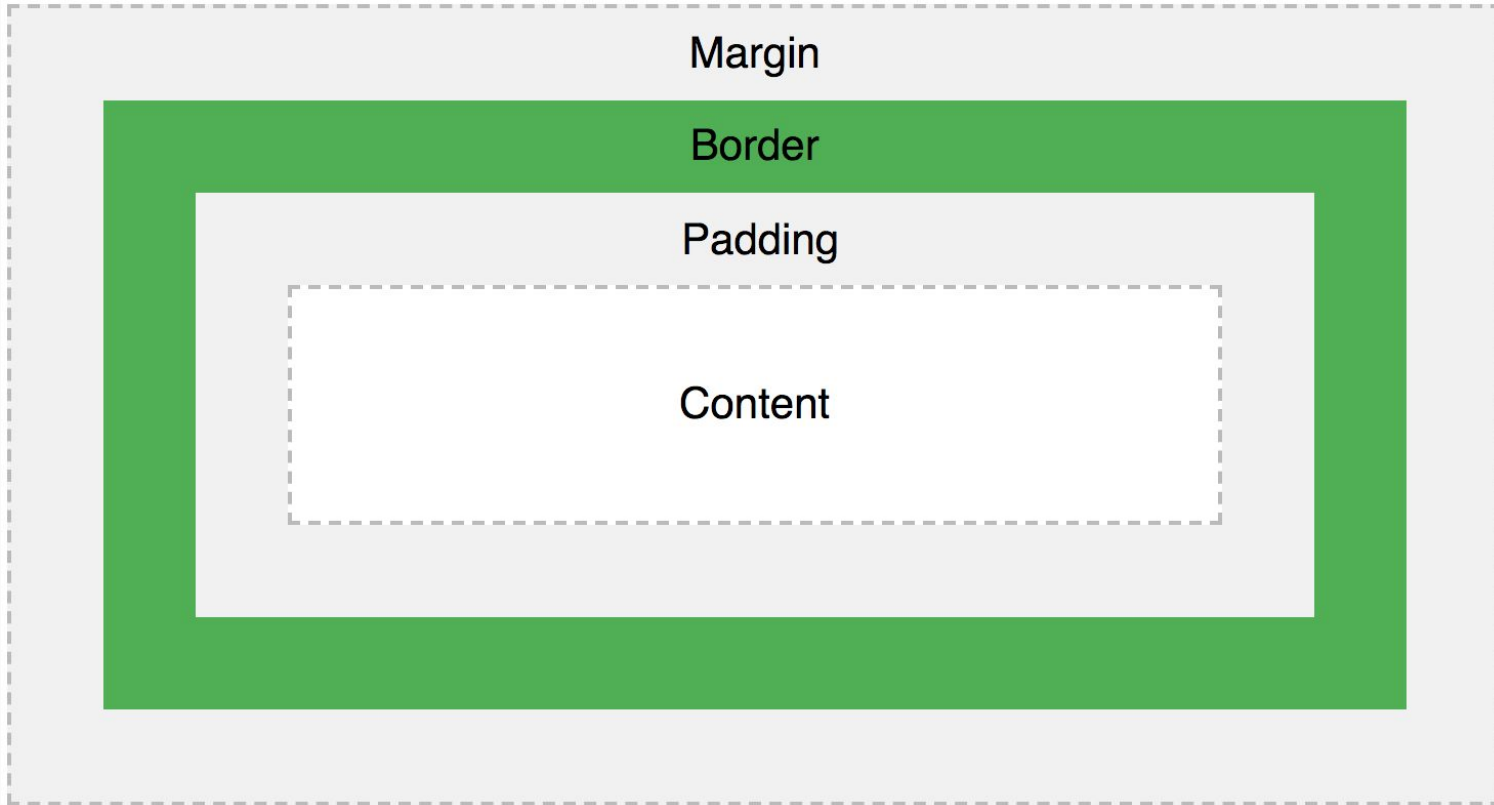


# Units of measurement in CSS

- **Pixels** - depends on your machine screen size
- **Percentages** - depends on your parent element
- **vh/vw** - depends on your browser size
- **em** - depends on the font-size of the parent
- **rem** - depends on the font-size of the body

<https://docs.elementor.com/article/595-difference-between-px-em-rem-percentage-vw-vh>

## Each element in HTML has this box model



**Let's add a cool background ?**

<https://uigradients.com/>

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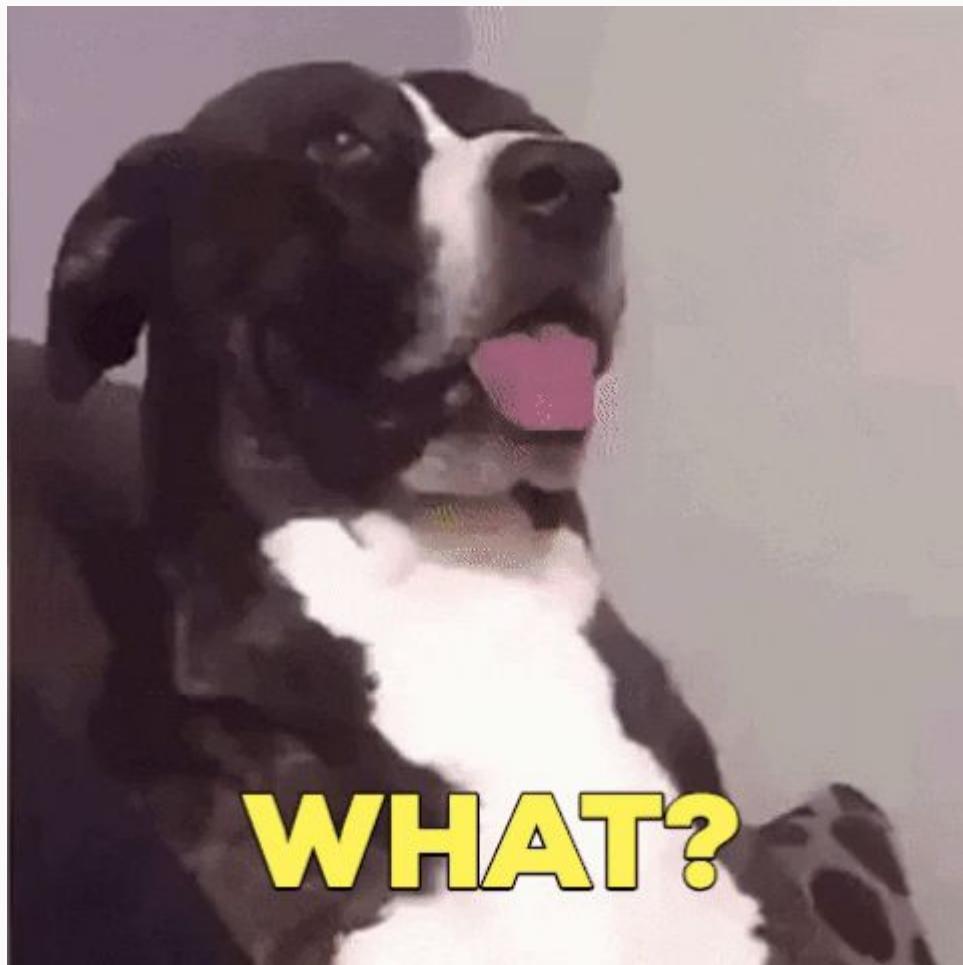
**What is JavaScript ?????**



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**Lightweight  
Interpreted  
First class functions**







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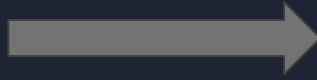
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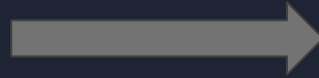
# How does your computer understand programming languages?



## Source code

```
<HTML>
<script type="text/javascript">
/**
 * This is a multiple-
 * line comment
 */
var index = 0;
var arr = [];

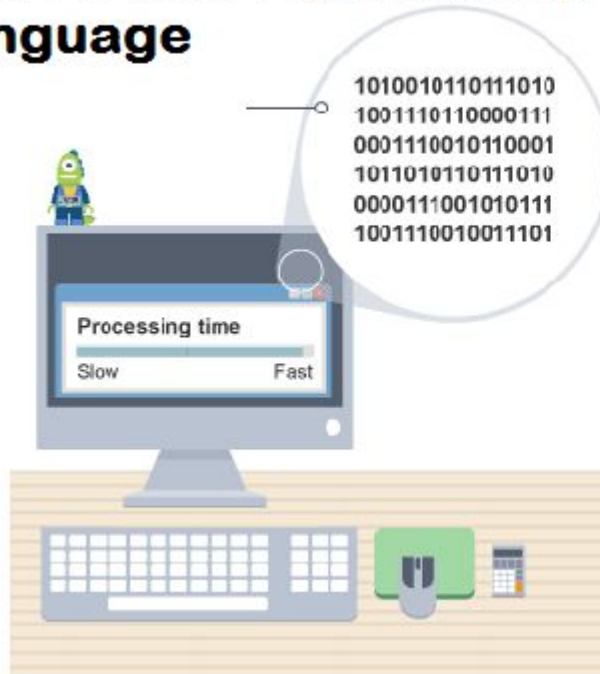
function push(elem) {
  // This comment may span only this line
  arr[index++] = elem;
}
</script>
</HTML>
```



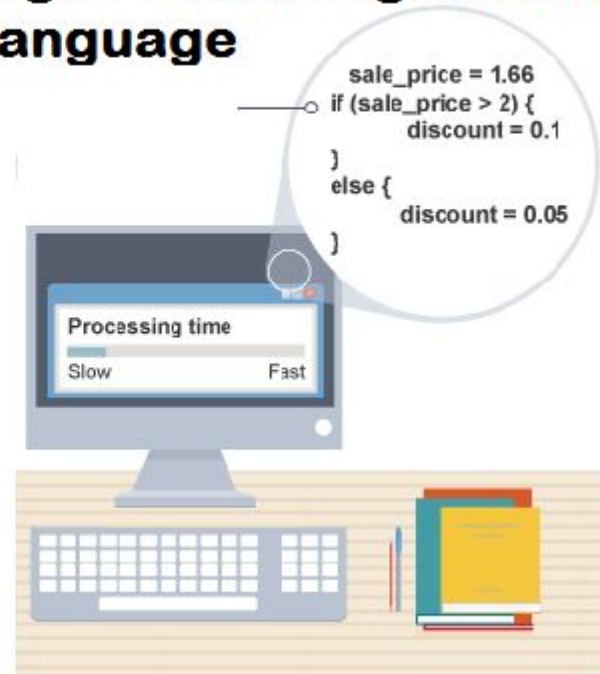
## Machine Code



## Low Level Programming Language



## High Level Programming Language



# Variables in JavaScript



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# What is Git ?

Git is an example of a **version control**



**Version control is a system** that records changes to a file or set of files and helps us recall specific versions later if needed.

It allows you to :

- Revert files
- Compare changes over time
- See who modified what?
- Control modifications

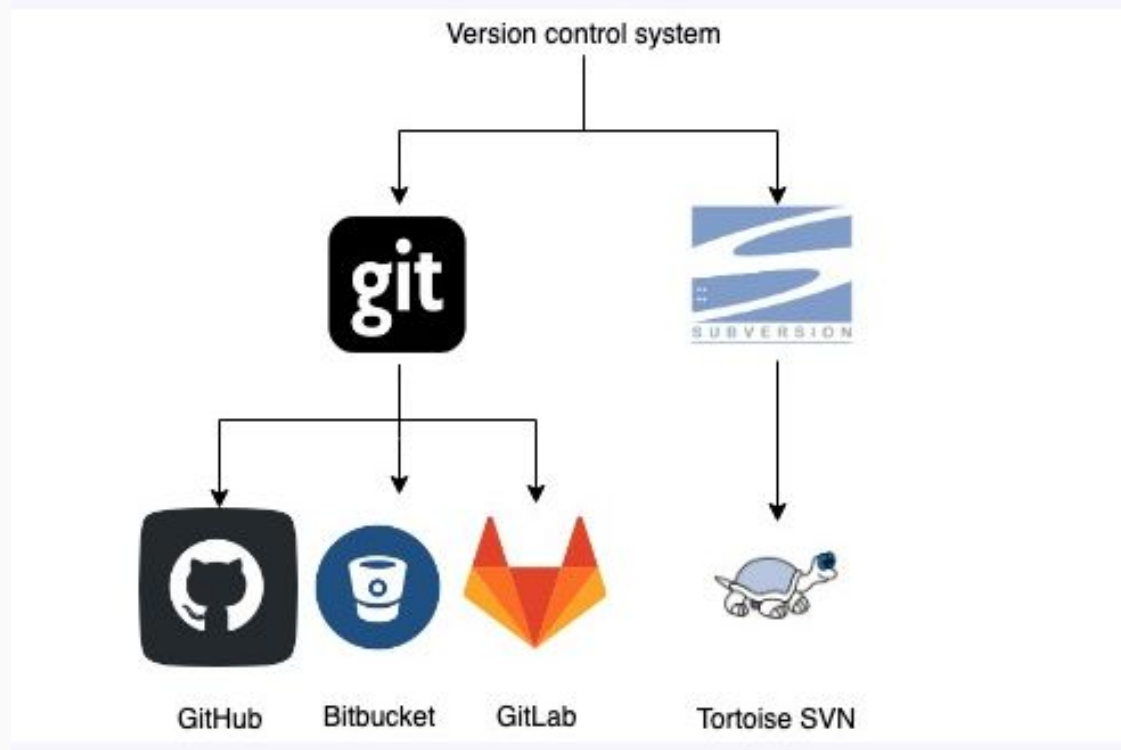
# What is github

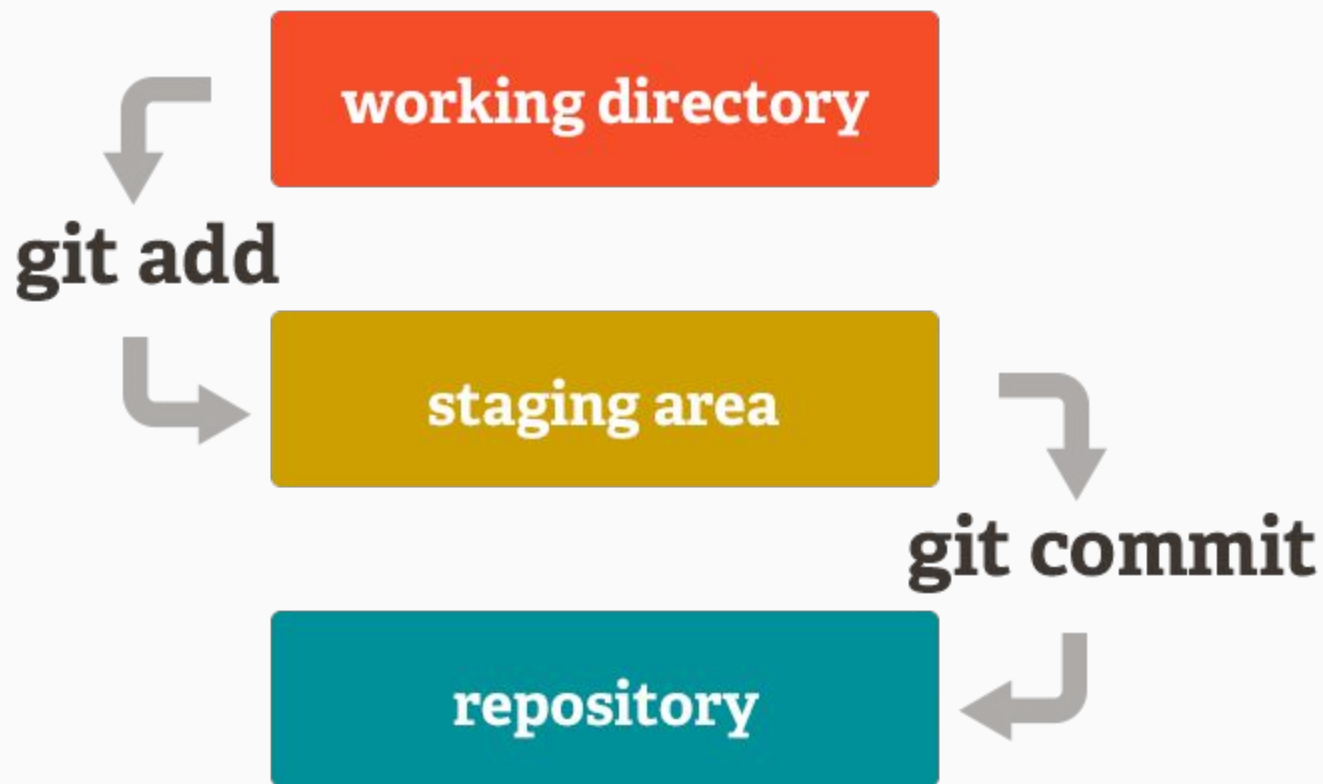


GitHub is a a **web based hosting service** for Git

- While **Git is a command line tool**, **GitHub** provides a **web-based graphical interface** that works on top of GIT.
- It also provides access control and several collaboration features, such as wikis and basic task management tools

# Version Control System types





Push = Upload!



Repository



Push



Local repository



# Github and git

