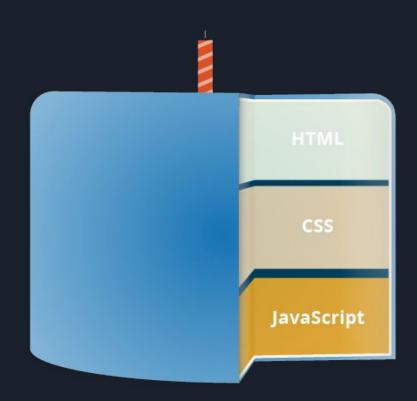
JavaScript,
Git/GitHub,
Deploying code

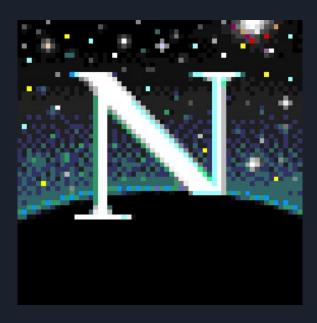
What is JavaScript

"JavaScript is a scripting or programming language that allows you to implement complex things on web pages" - MDN web docs

- JavaScript is what makes your website functional and no longer static



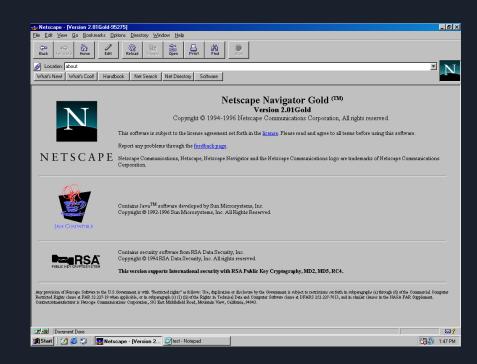
JavaScript: A Brief History

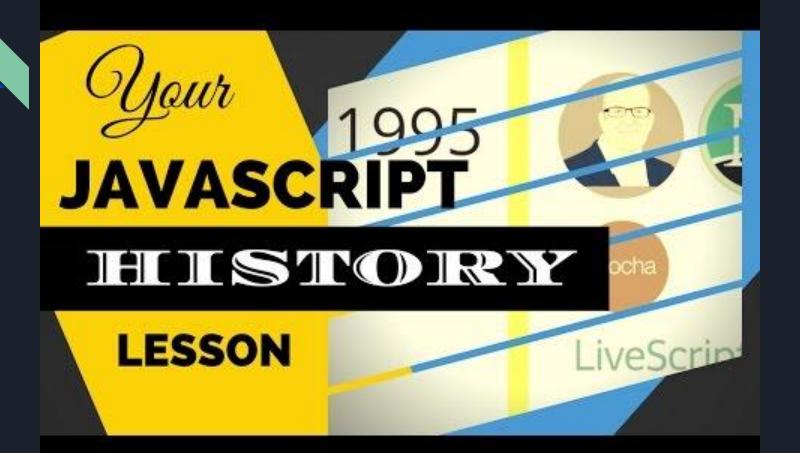


- In 1995 Netscape Communications recruited Brendan Eich "The Father of JavaScript"
- Netscape Communications was about to partner with Sun Microsystems to include Java into Netscape Navigator to compete with Microsoft
- Java was not the language Netscape envisioned for its developers
- Netscape wanted a faster, easier language for scripters, amateurs, and designers to pick up
 - Java for big enterprise applications
 - JavaScript for small scripting tasks

JavaScript: A Brief History contd.

- Brendan was able to choose the tools and knew the individuals calling the shots at Netscape to choose what this companion language would be
- The only thing he didn't have was time
- In May of 1995 with only 10 days Eich wrote the first JavaScript prototype JavaScript
- JavaScript was integrated into Netscape Navigator 2.0 in 1995





Why is JavaScript important?

JavaScript helps us rewrite Web Applications

Browser		Server
BIOWSEI	 HTTP Request	Server
- Parse & Render:	(Form Data)	- Render Templates
	(FOI III Data)	
HTML	>	- Routing (App & API)
CSS		- Security
JavaScript	"Full Page Reload"	- Authentication
	1	- Data Storage
	<	- Application Logic
	HTTP Response	- Domain Logic
	(HTML, JS, CSS)	- Asset Management
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- Static Asset Serving



AJAX

how AJAX works





lynda.com

Why is JavaScript Important?

- Do things HTML & CSS are unable to provide
- Write Full stack applications
 - Client-Side Scripts
 - Server-Side Code
- Enhances the user experience
- Create interactivity
- Comes in all shapes and sizes
 - Frameworks
 - Libraries
 - Transpilers

JavaScript is:

- Analytics
- Education
- Games
- Creativity
- <u>Flexibility</u>

Git & GitHub

Git & GitHub have been brought up on multiple occasions and it may not have sunk in yet what is being talked about

Git = Version Control

GitHub = Platform that uses Git



What is Git?

"Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency" - git

Git is a Version Control System

Version control is a system that records changes to a file or set of files over time so you can recall specific version later

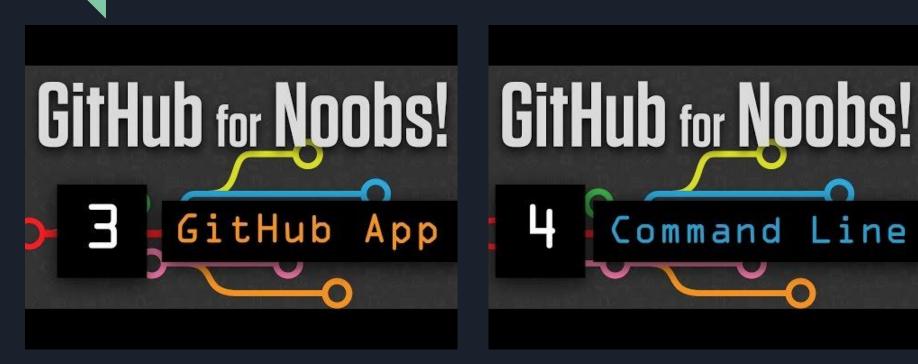


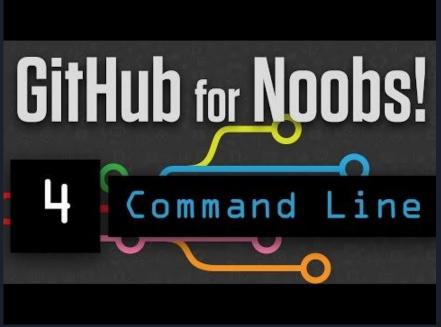
GitHub for Noobs! History

GitHub for Noobs!



Furthering Git and GitHub knowledge





Deploying code to the web

- Deploying code on to a web hosting service is no different than working with your local files
- Deploying code is like a house
 - Domain = your address
 - Hosting = what contains your belongings
 - Data files = all your belongings



Getting a Domain

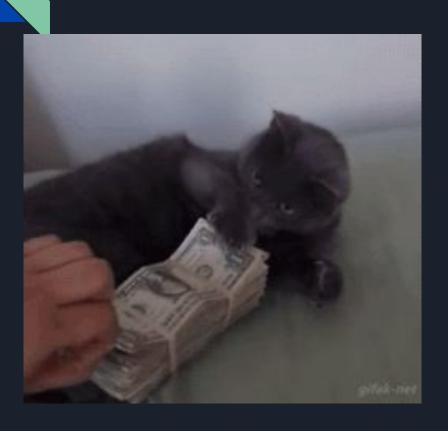
Getting a domain is easy, the only challenge is who to pick from

- Namecheap
- Bluehost
- <u>HostGator</u>
- GoDaddy
- <u>Dreamhost</u>
- Domain.com

...just to name a few



Picking where to buy a domain/hosting



The cheapest option is typically fine for personal use

Most places you can get a domain are relatively the same

- luse
 - GoDaddy = Domains
 - HostGator = Hosting
- I've worked with clients on various platforms and had the same equal experience
- Do your research and imho you'll find good and bad. I've experienced both good and bad with a lot of these services

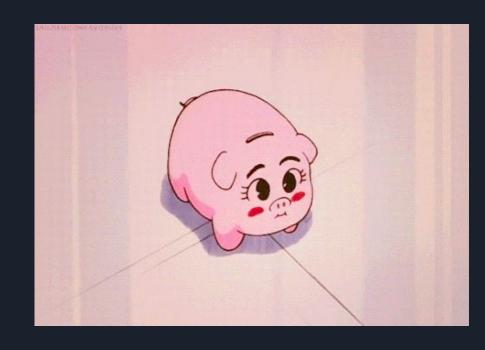
On a tight budget?

If you are concerned about spending \$20 - \$30 on a domain and hosting I have good news

GoDaddy Domain = \$1.17 (1/yr)

HostGator Hosting - \$0.01 (1/mo)

HostGator user offer code HOSTGATOR7994



How to purchase hosting...you can stop at 5 minutes you will not be installing Wordpress



Deploying your code



Homework

- Deploy current site code using GitHub
 Pages
- Homepage & Discography
- Email me: steve fuller@berkeley.edu with your GitHub URLs

