



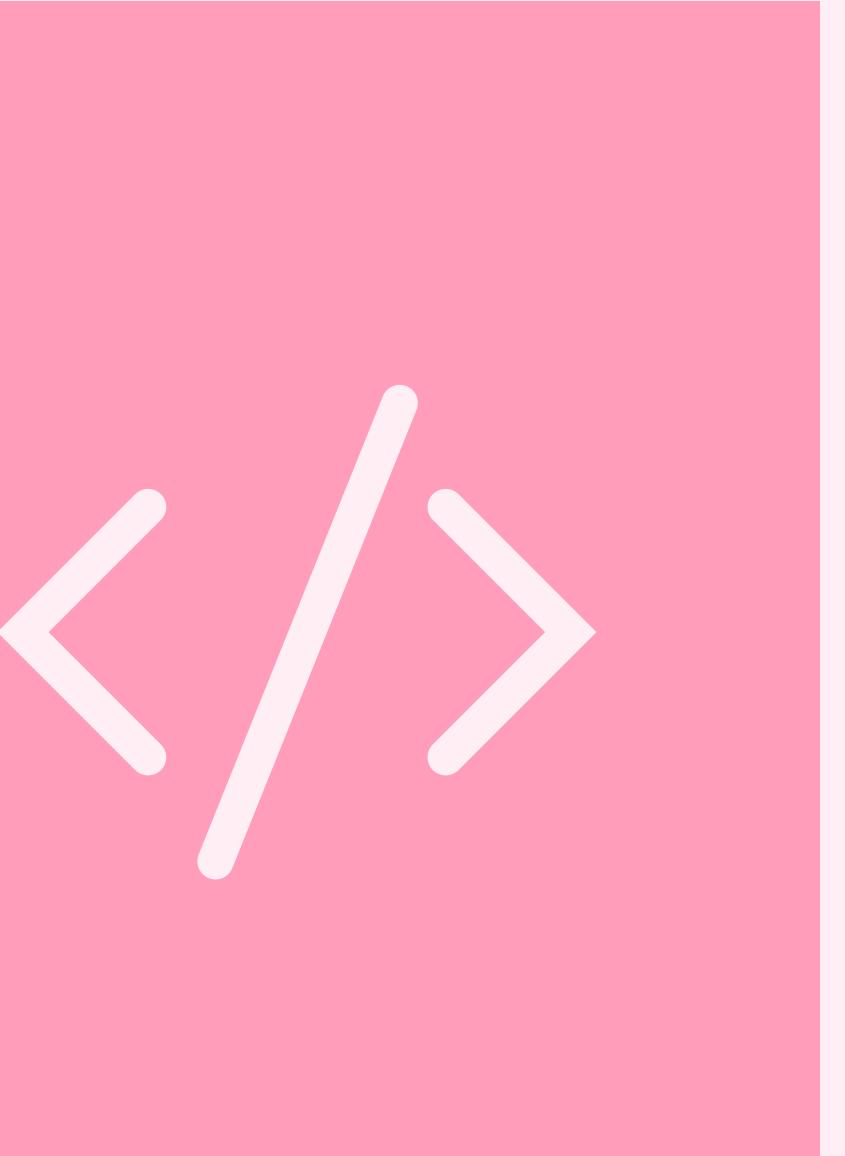
What We Cover

How The Web Works
HTML5
Semantic HTML
Accessibility
CSS3 Essentials
Flexbox & Layout
CSS Animations
Responsive Design
CSS Frameworks
Bootstrap 4 & 5
JavaScript Basics
All Modern JS Syntax

DOM Manipulation
Asynchronous JavaScript
AJAX & JSON
Working with API's
Using the Terminal
Unix Commands
NodeJS & NPM
Express
Web Frameworks
Templating
RESTful API's
Databases

Mongo DB
Developer Mindset
Security
Deploying
Mongo Cloud Atlas
Mongoose
Schema Design
Authentication
Authorization
Cookies & Sessions
Image Upload
Geocoding & Maps





What is the Internet?
The Internet vs. The Web
How Does the Web Work?
What are HTTP requests?
What Is A Web Server?
Front End Vs. Backend
Environment Setup!
What are HTML, CSS, & JS?
What do they each do?

Unit Goals

Things We'll Cover



THE INTERNET

In a Couple of Minutes

A close-up photograph of a man with dark skin, wearing black-rimmed glasses and a yellow button-down shirt. He has a surprised or confused expression, with his right hand raised to his ear and his mouth slightly open.

WHAT IS IT?
"A global network
of networks."

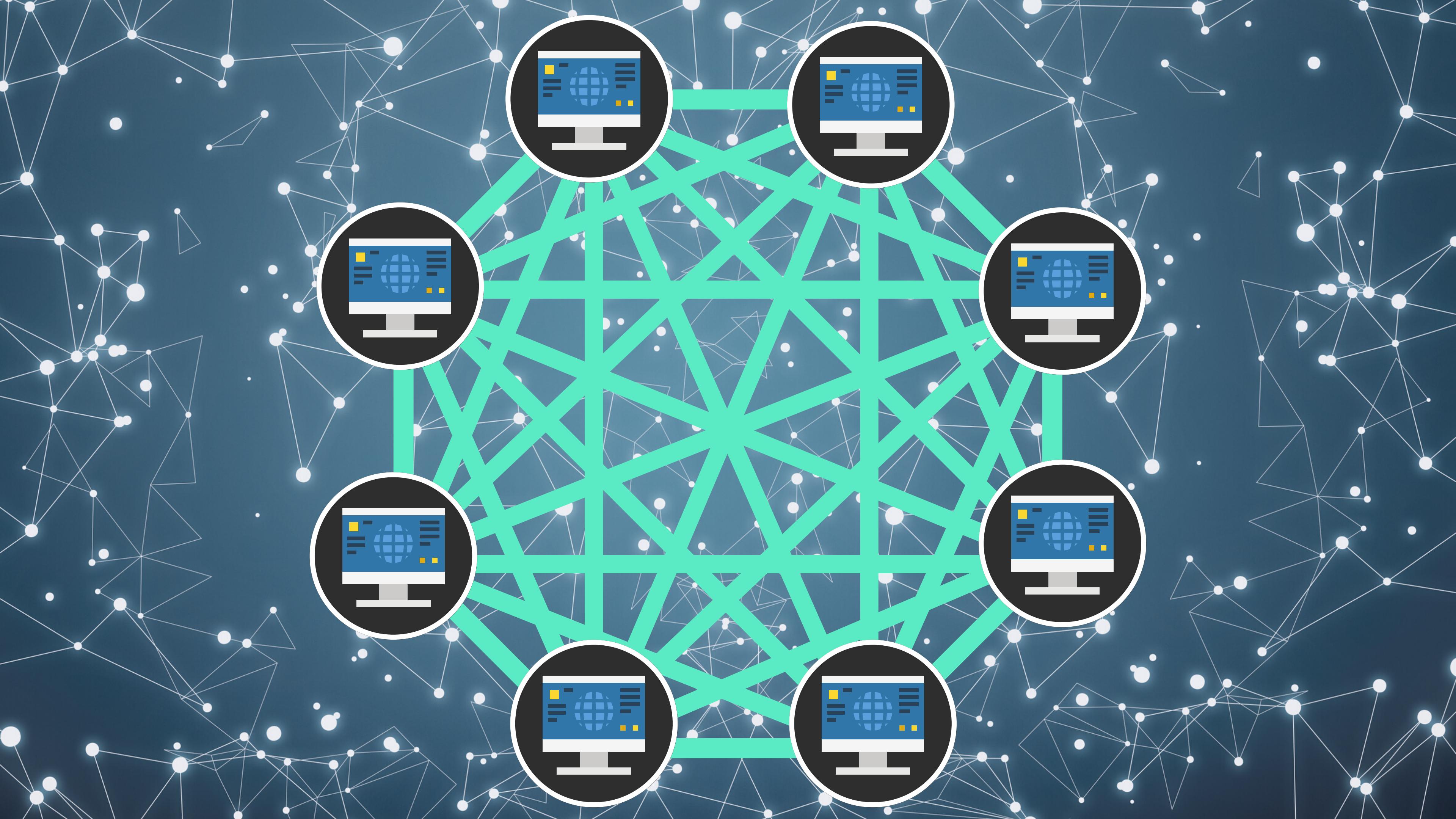
(It's just a bunch of connected computers)





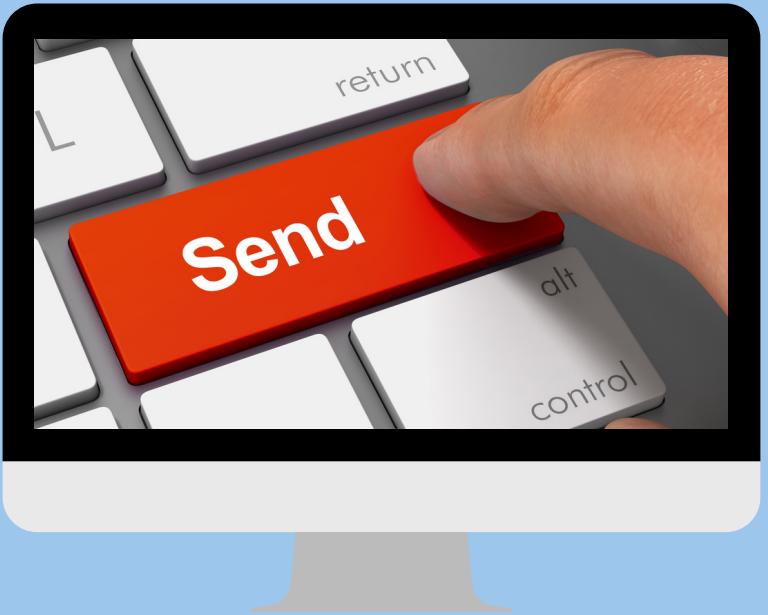
Hey



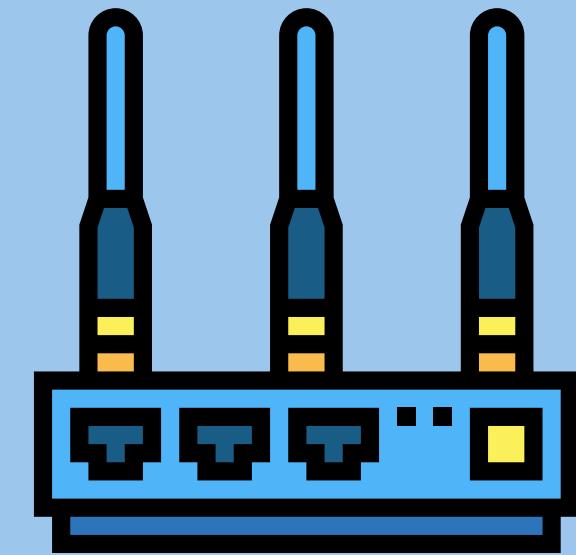




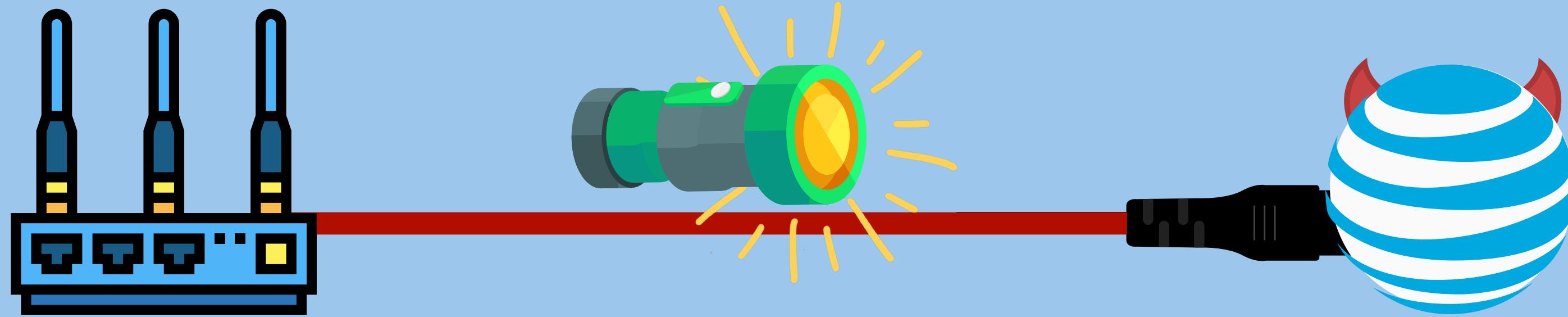




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THE INTERNET IS THE INFRASTRUCTURE
THAT CARRIES THINGS LIKE:

- EMAIL
- THE WEB
- FILE SHARING
- ONLINE GAMING
- STREAMING SERVICES



THE INTERNET

Global network of interconnected computers that communicate via TCP/IP (don't worry about that for now). Network of networks.

THE WEB

The World Wide Web is an information system where documents and other resources are available over the Internet.

Documents are transferred via **HTTP**.



HTTP REQUESTS



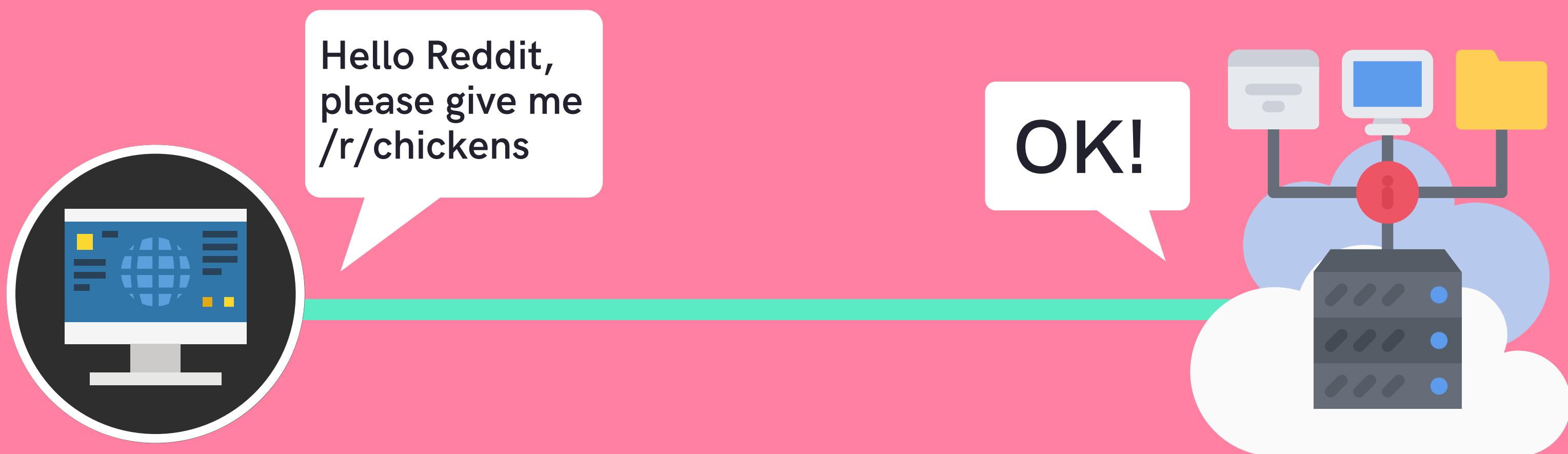
- Foundation of communication on the World Wide Web
- "Hyper Text Transfer Protocol"
- Request -> *I would like this information please*
- Response -> *Ok, here you go!*



WEB SERVER

A computer* that can satisfy requests on the Web.

* "server" is also used to refer to the software running on the computer



WEB SERVER

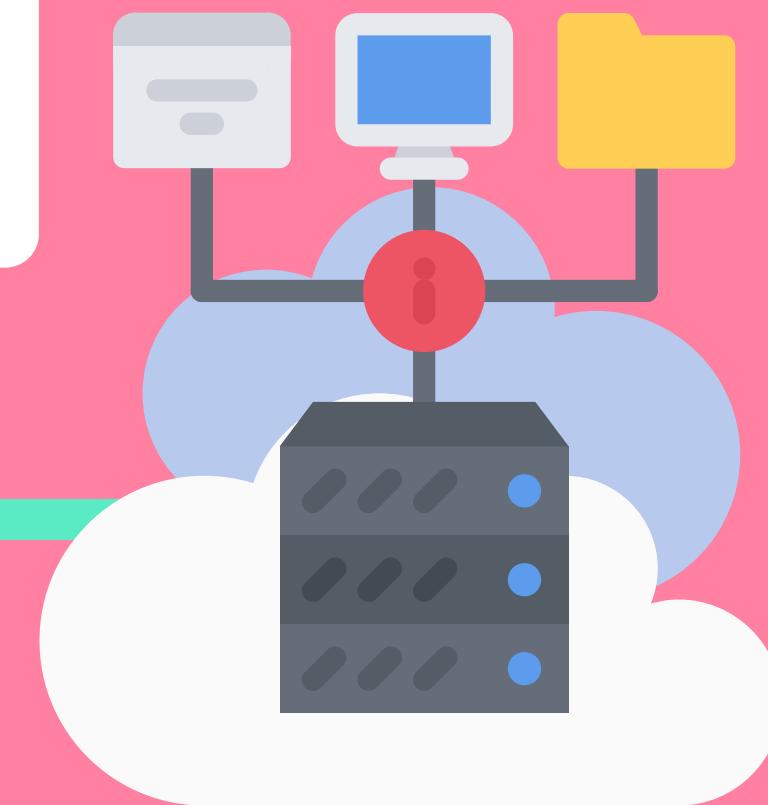
A computer* that can satisfy requests on the Web.

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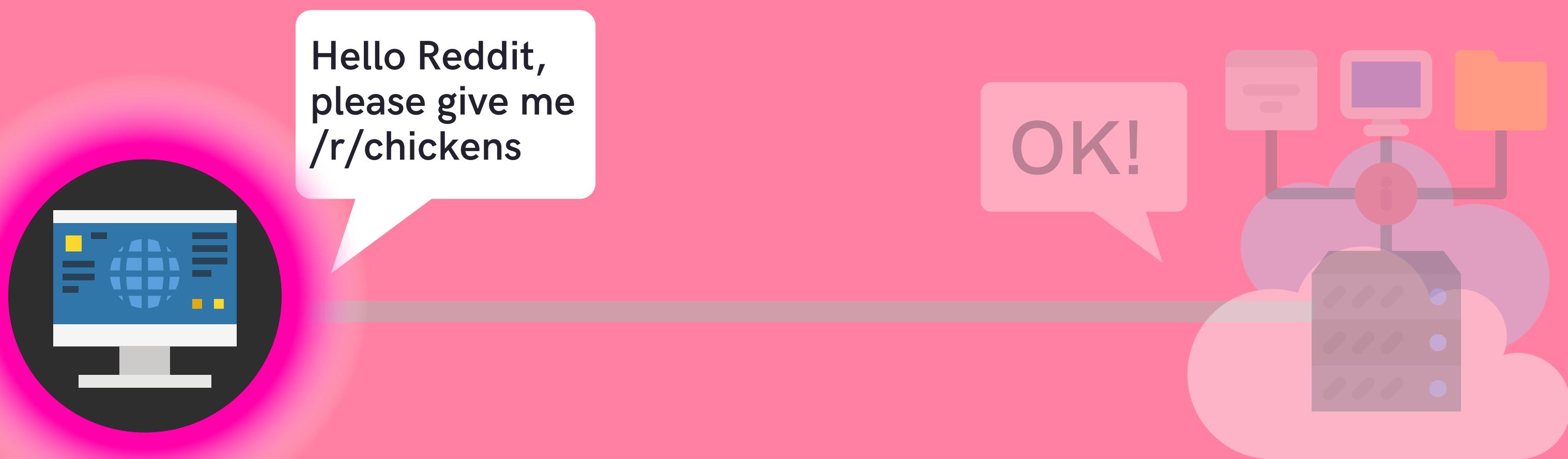
Hello Reddit,
please give me
`/r/jkadjiwjdbs`

I'm terribly sorry,
but I don't know
wtf you are talking
about.

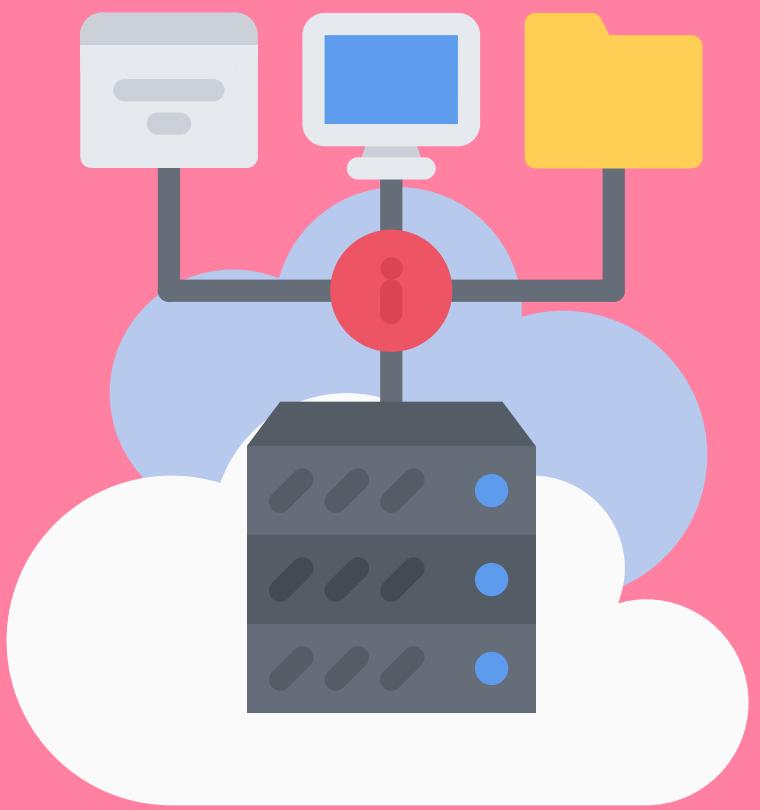


CLIENT

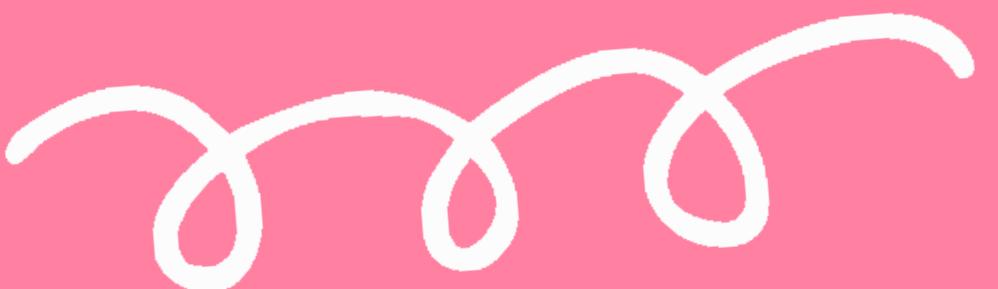
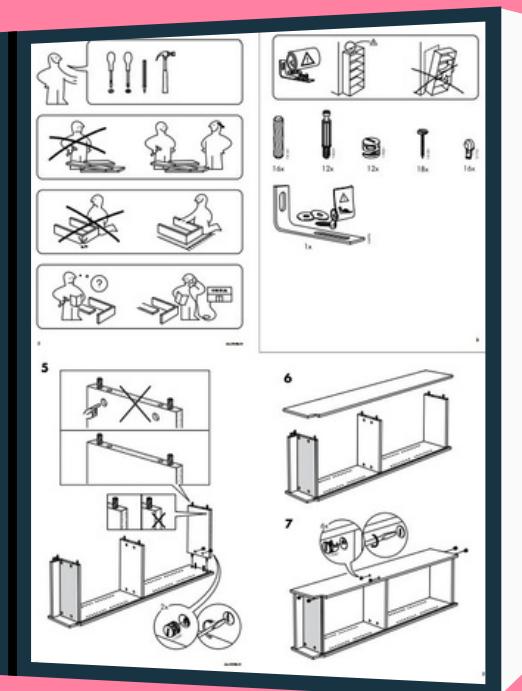
The computer that accesses a server



A SERVER SOMEWHERE



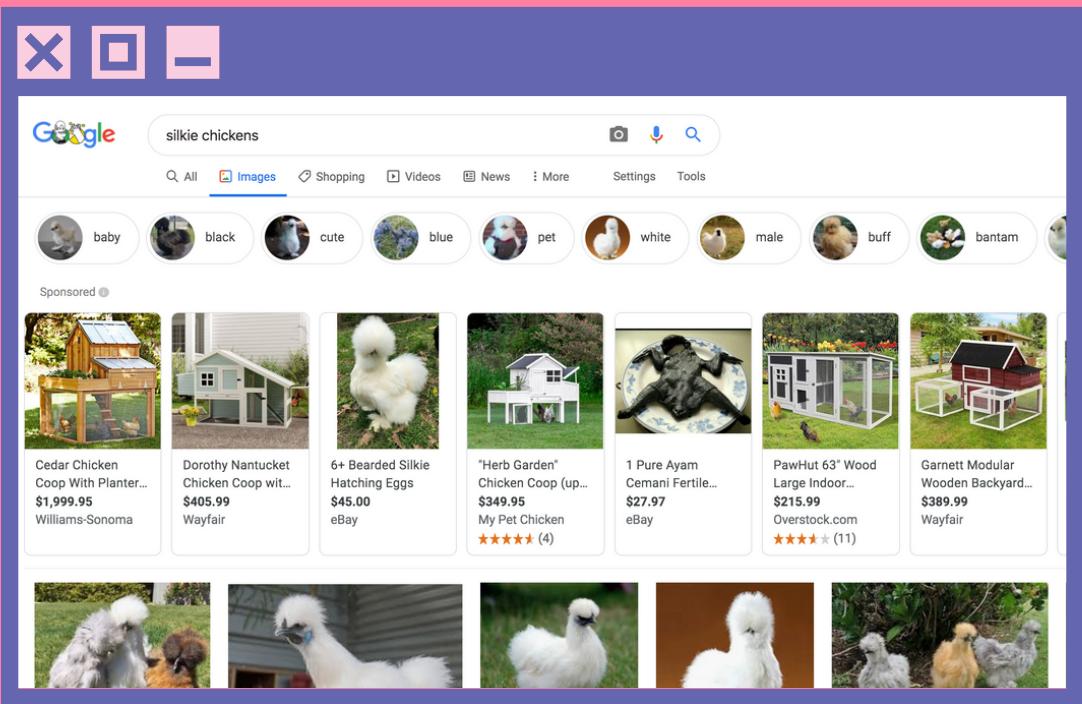
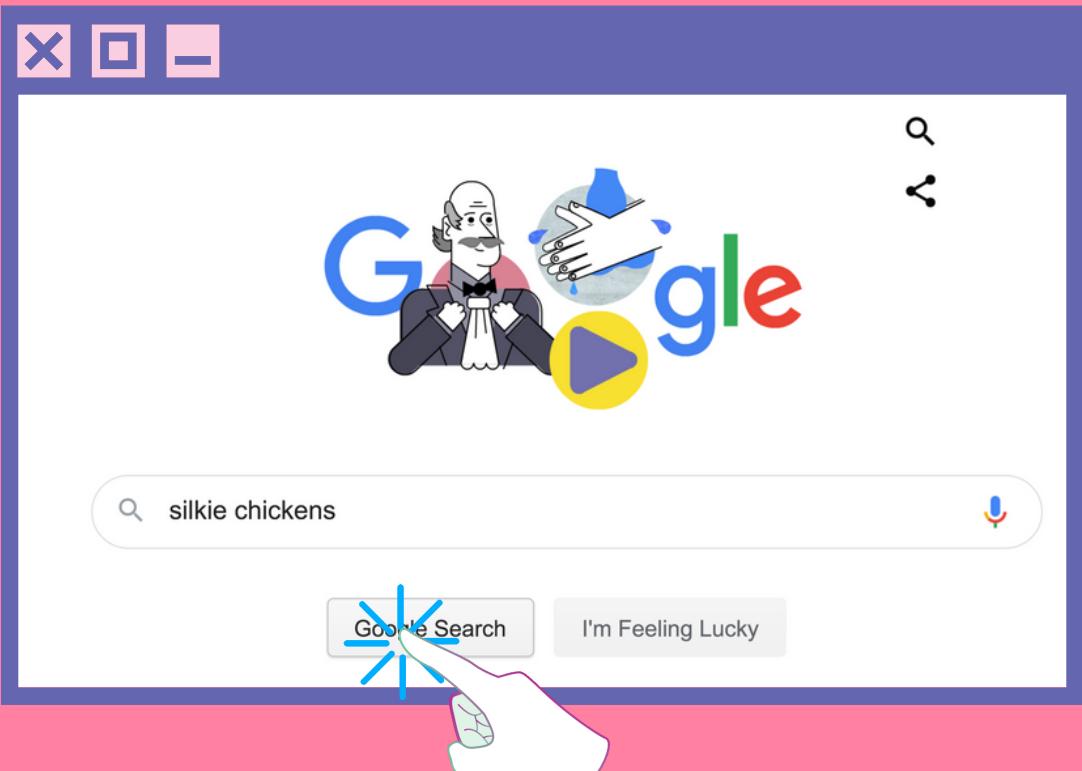
Here are the instructions!



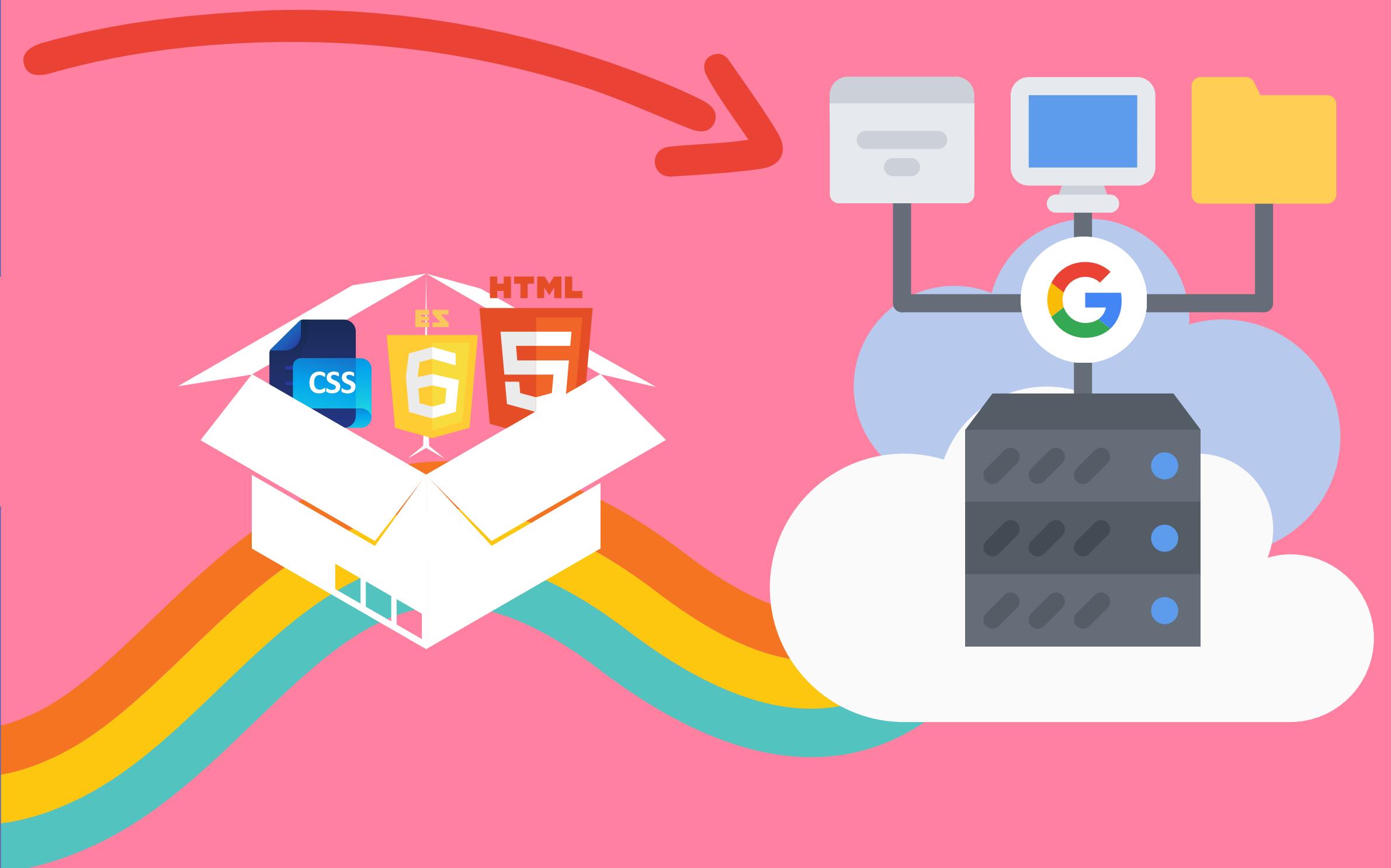
YOUR BROWSER

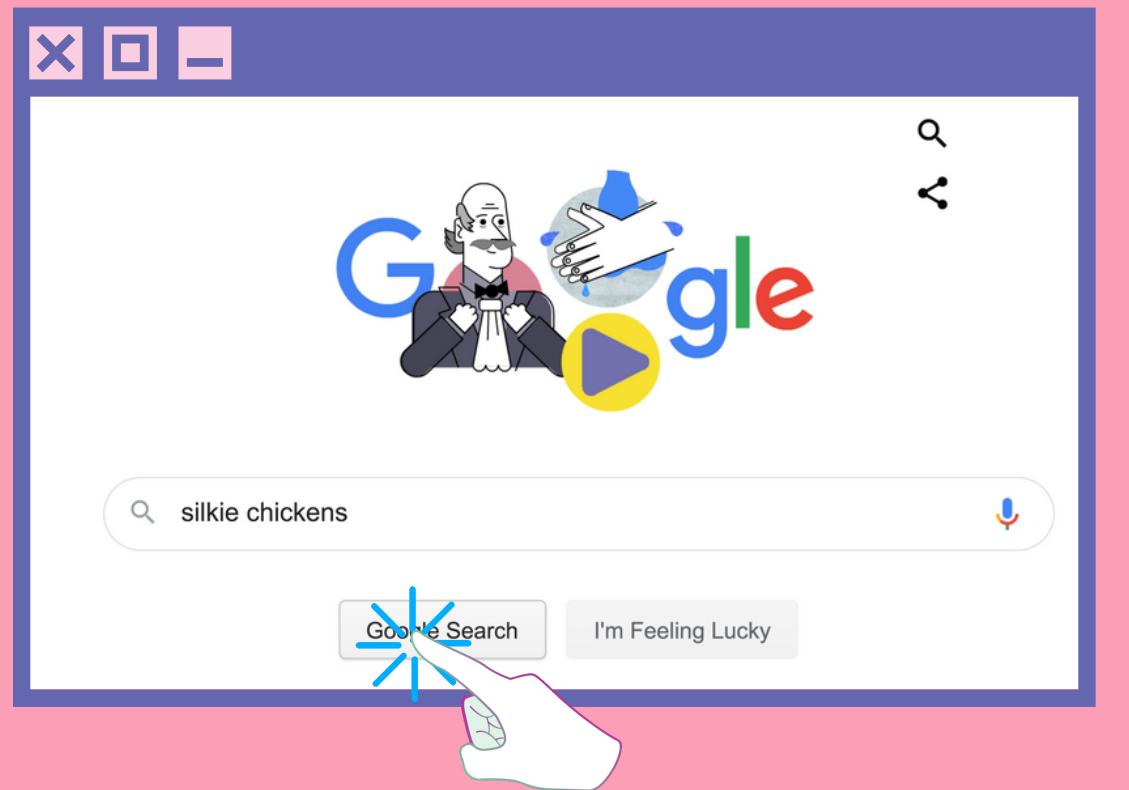


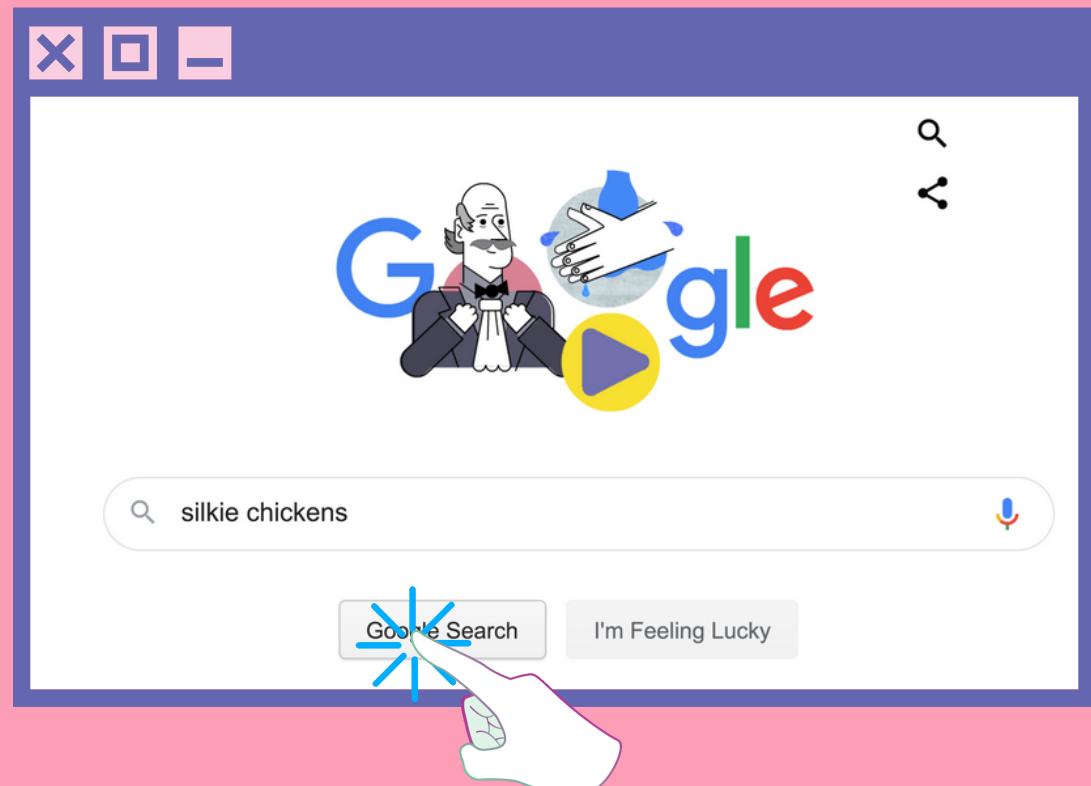
Look What I Made!



PLEASE GIVE ME
GOOGLE.COM/SEARCH?Q=CHICKENS

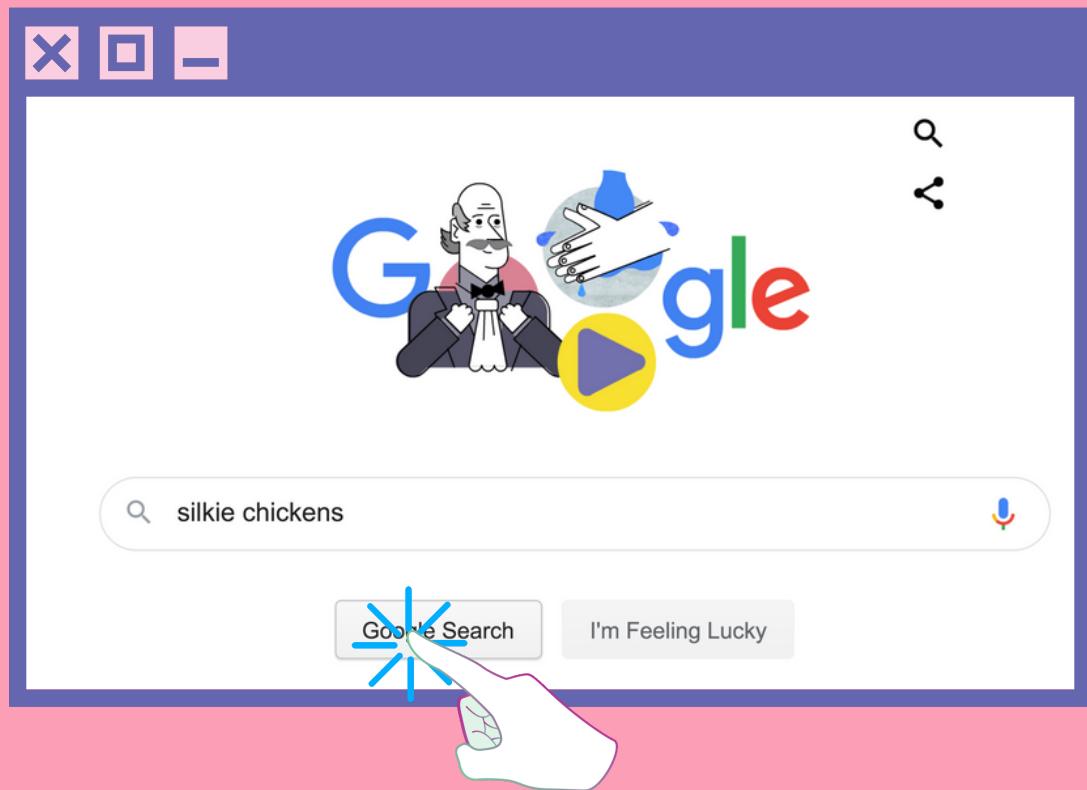




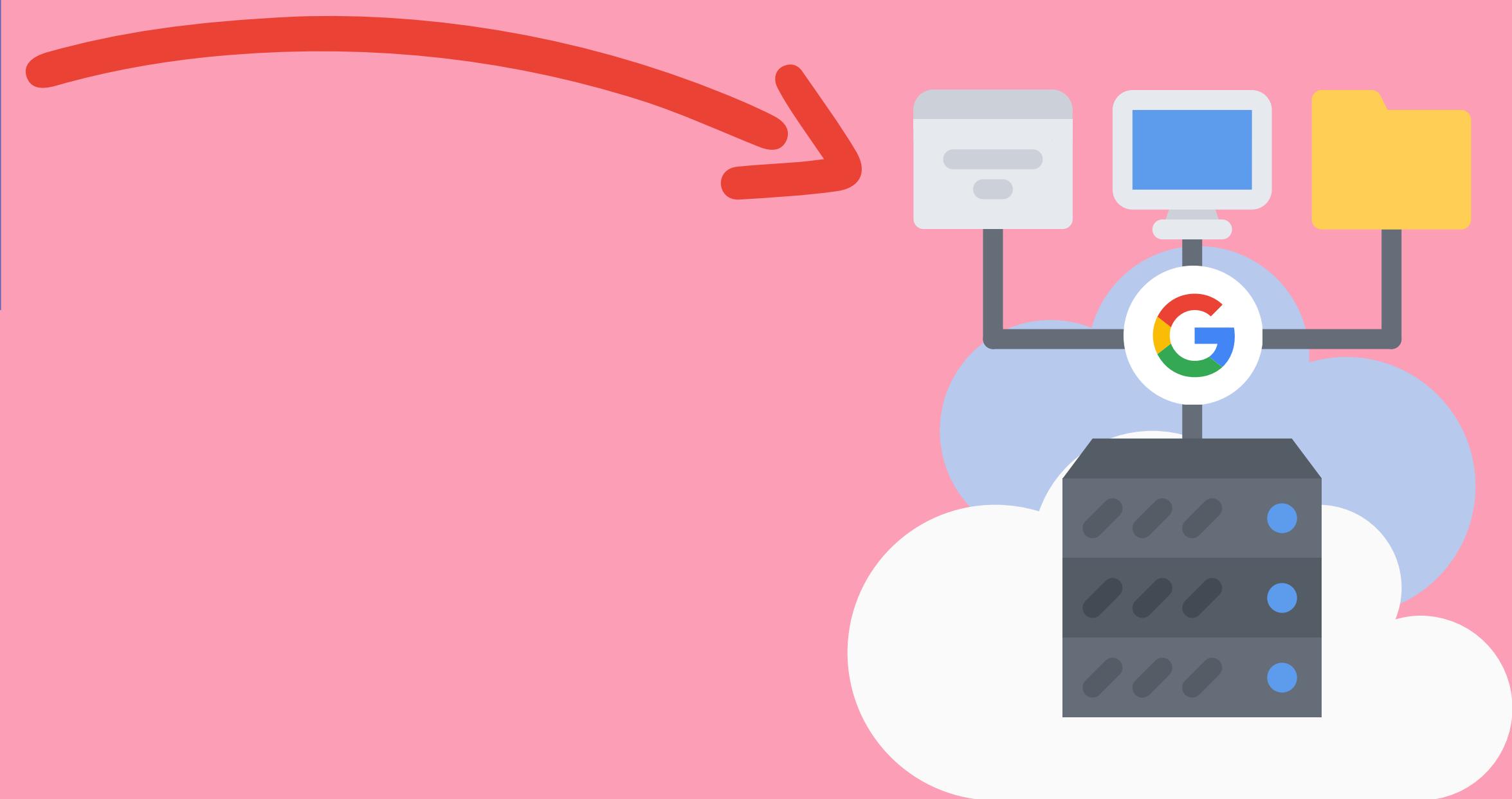


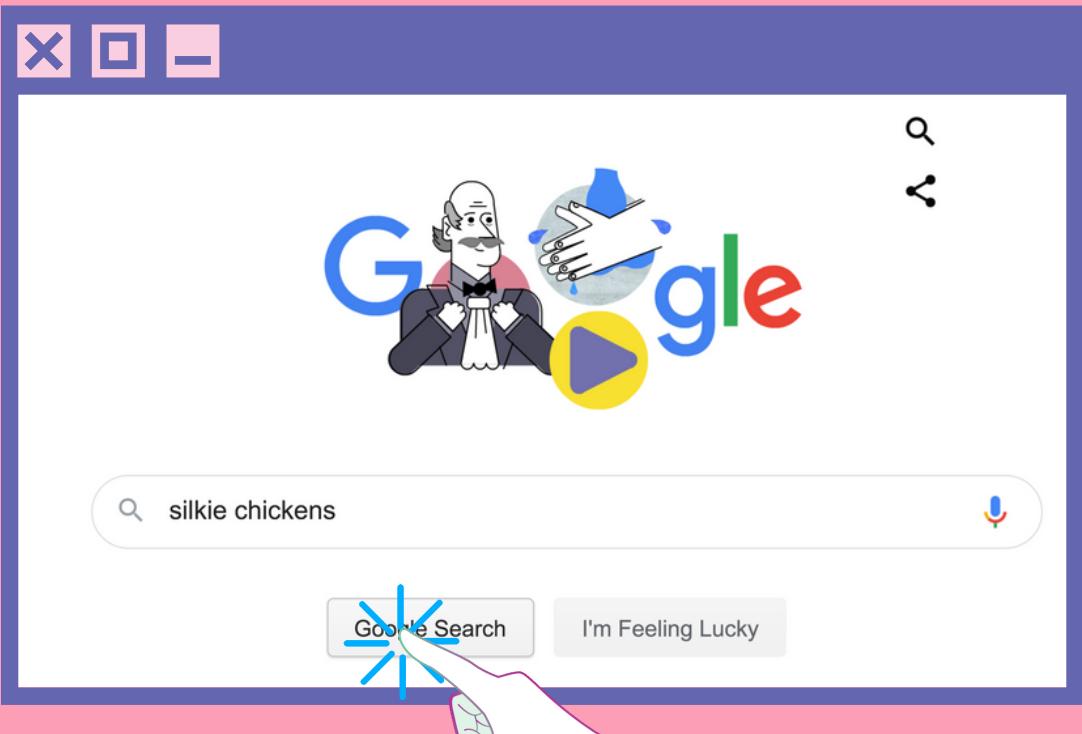
PLEASE GIVE ME
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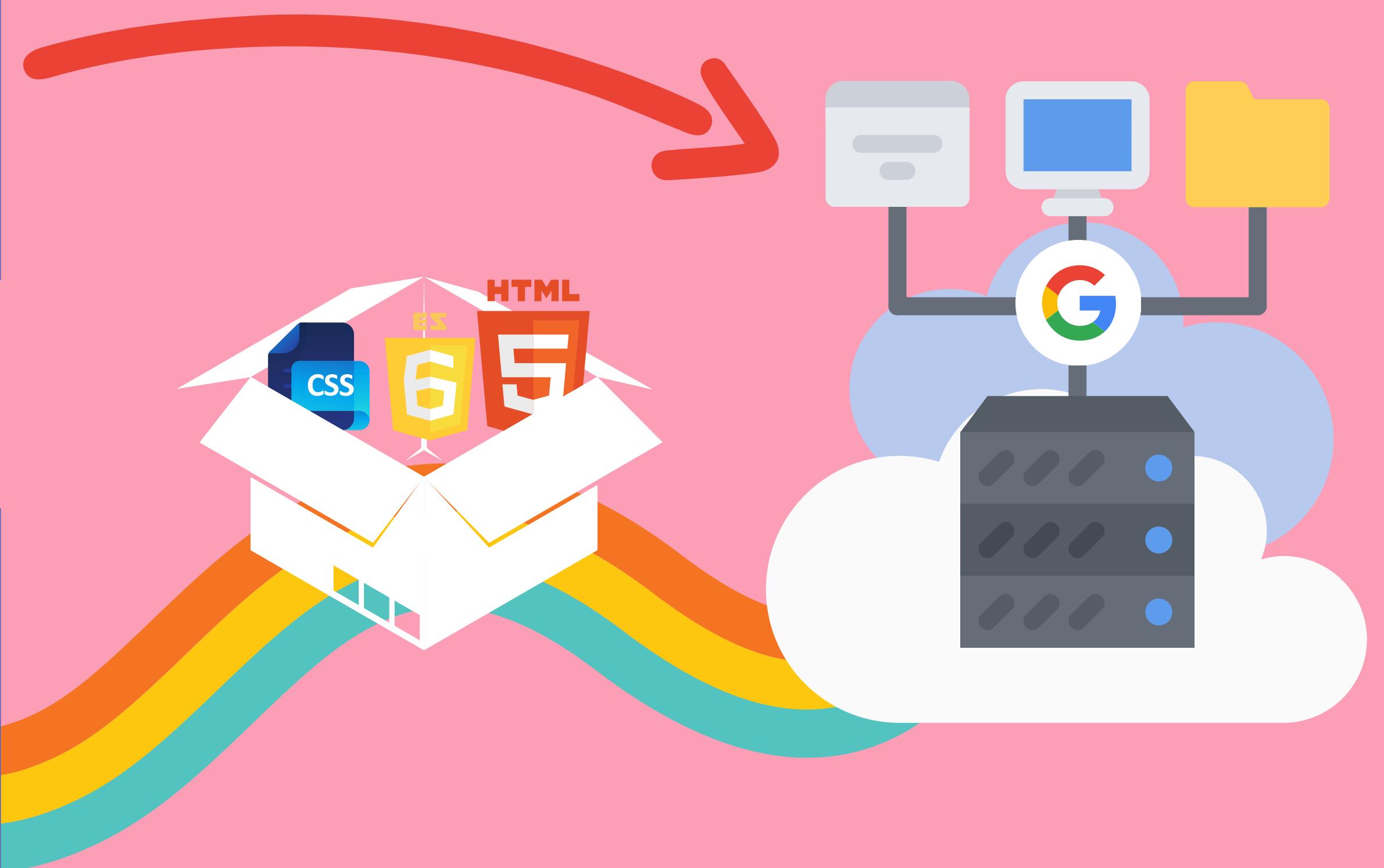
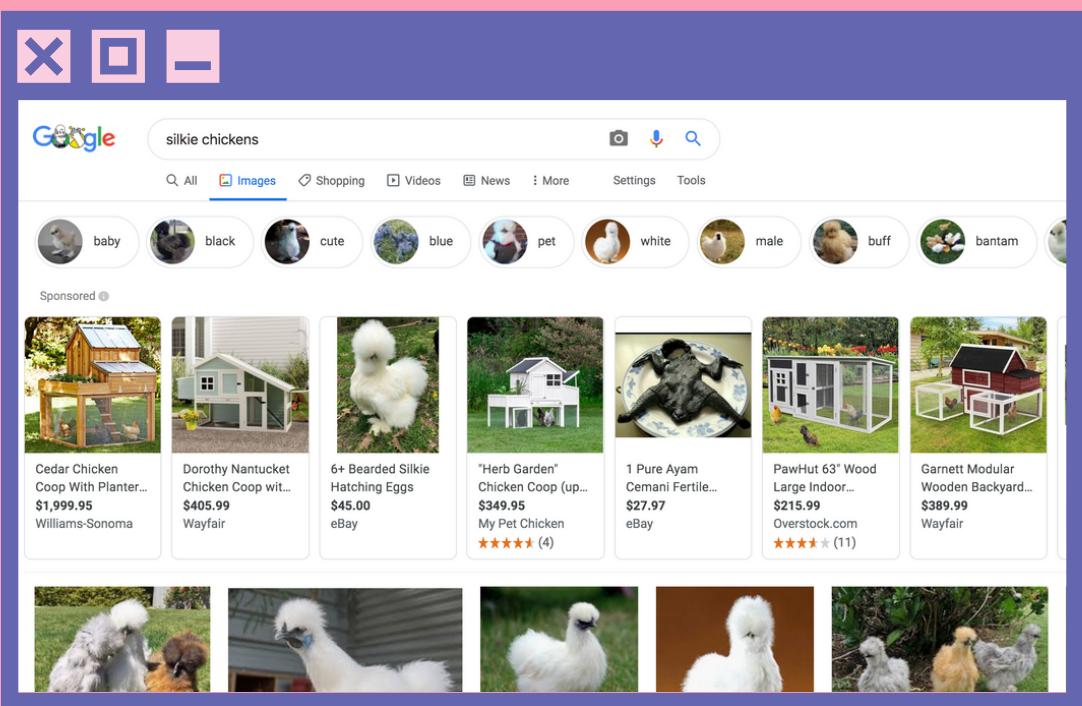


PLEASE GIVE ME
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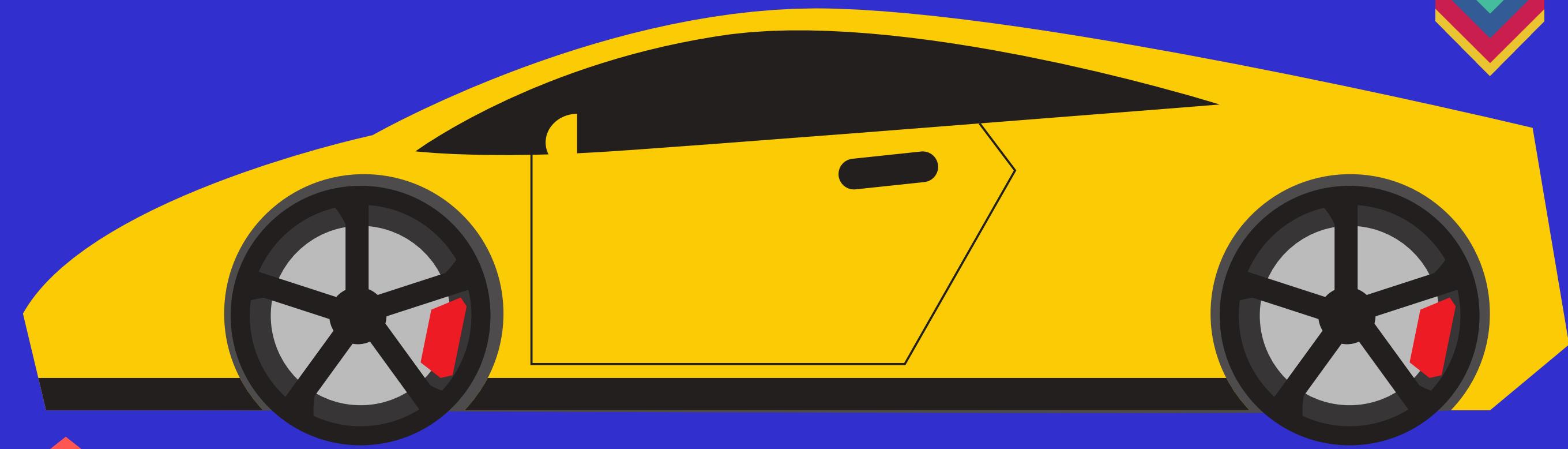




PLEASE GIVE ME
GOOGLE.COM/SEARCH?Q=CHICKENS



BACK END



FRONT END





BACK END



FRONT END

BACK END

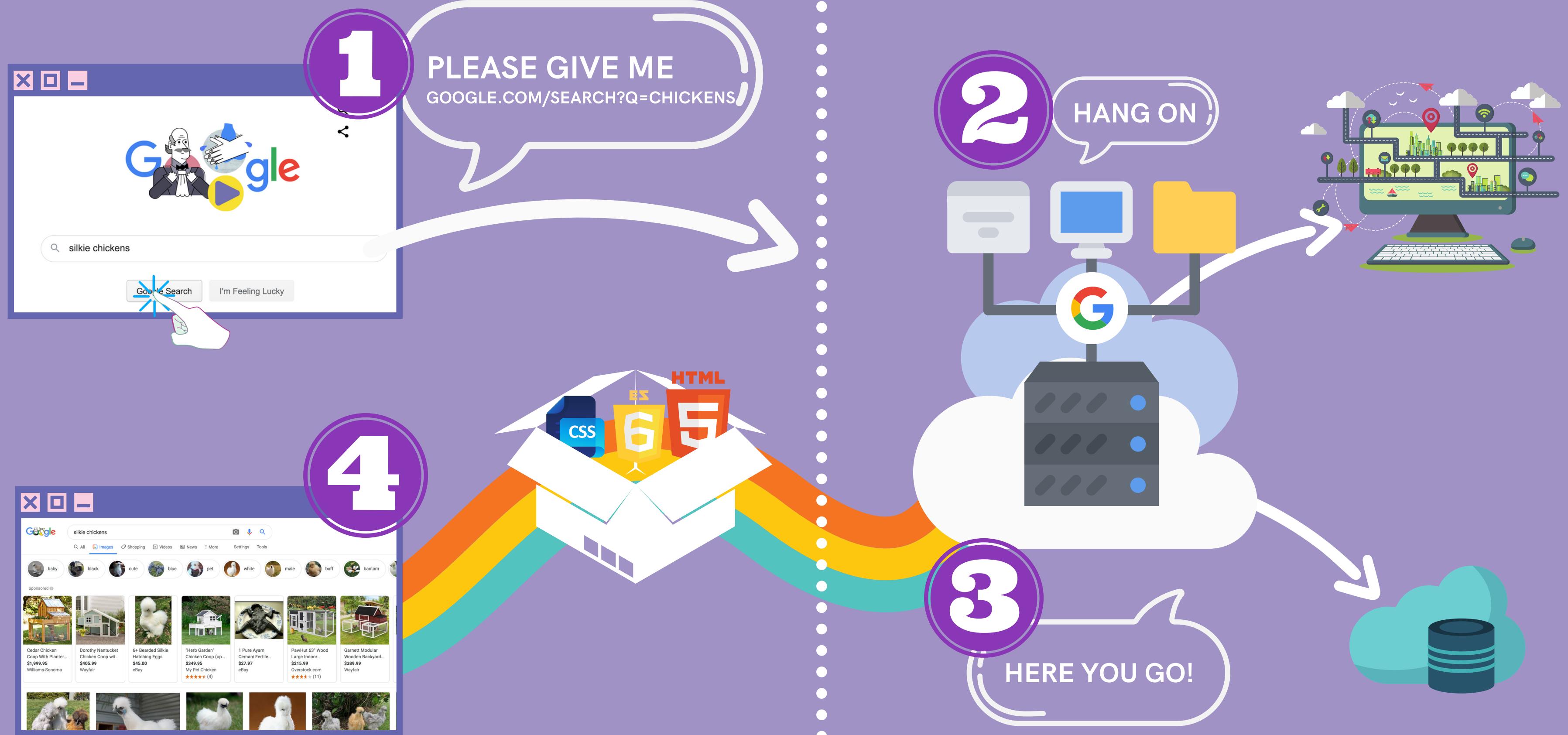


FRONT END



RECEIVES THE ORDER AND
ASSEMBLES THE PIZZA

YOU STILL NEED TO BAKE IT
AT HOME! (THE BROWSER)



FRONT END

BACK END

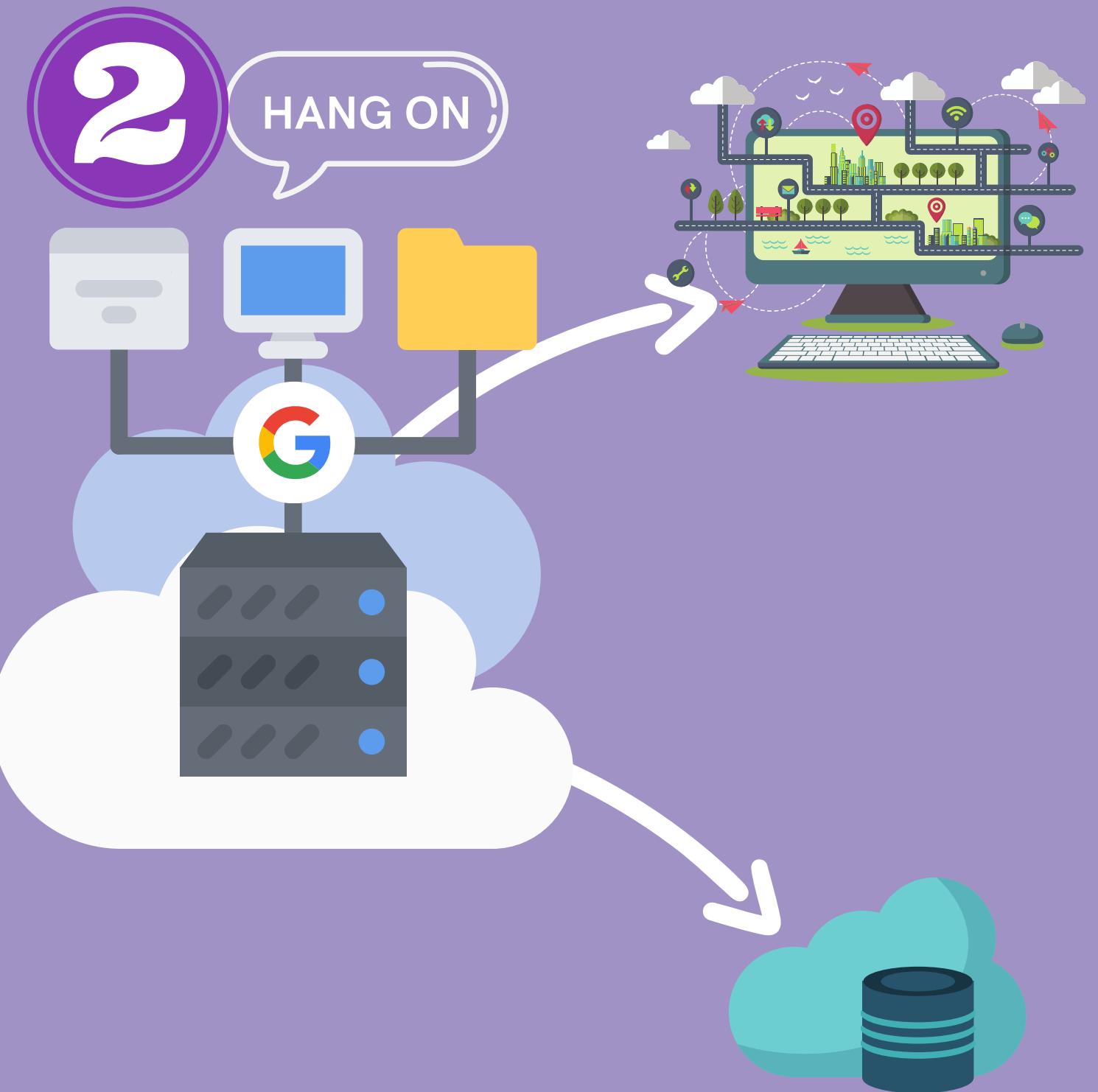


FRONT END

BACK END

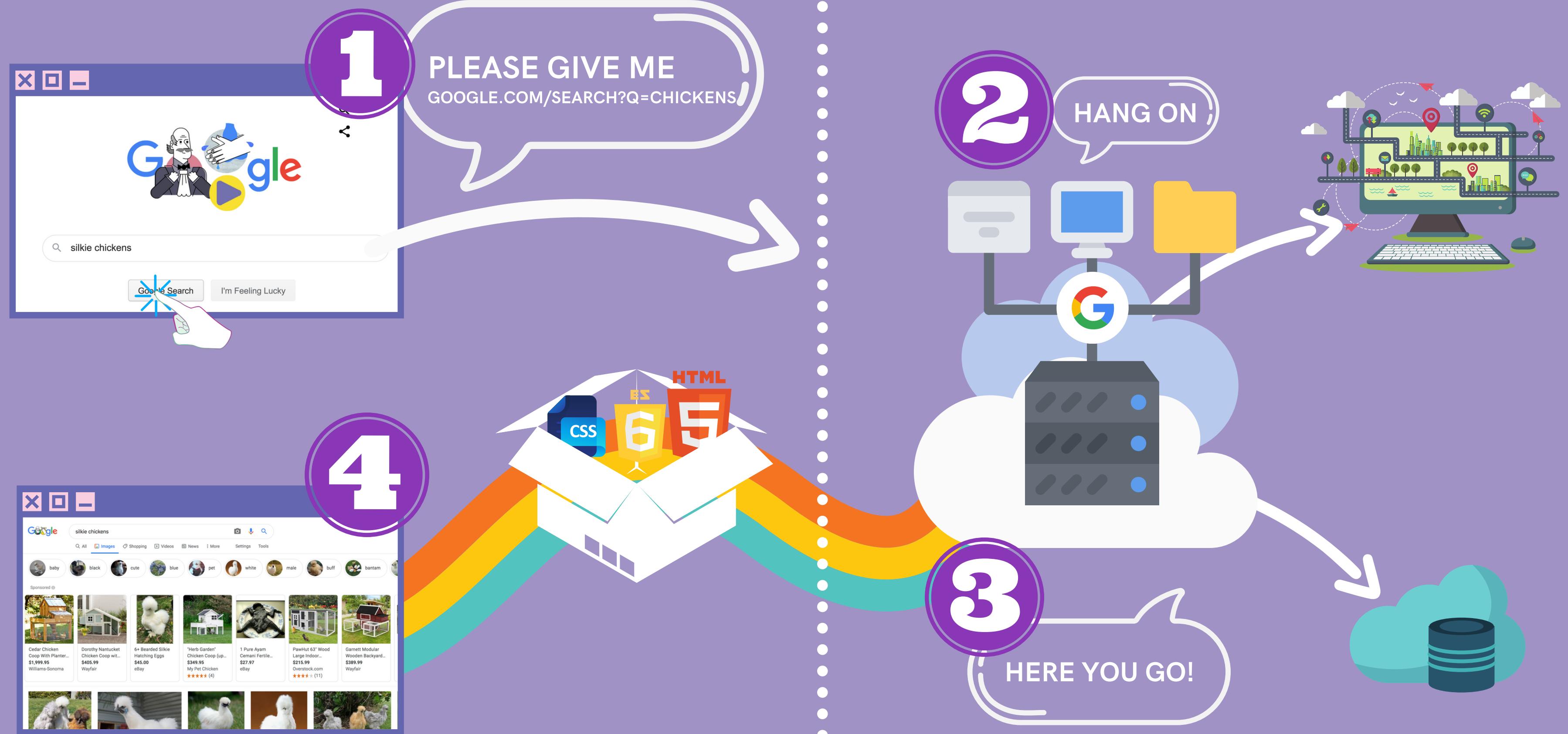


FRONT END



BACK END



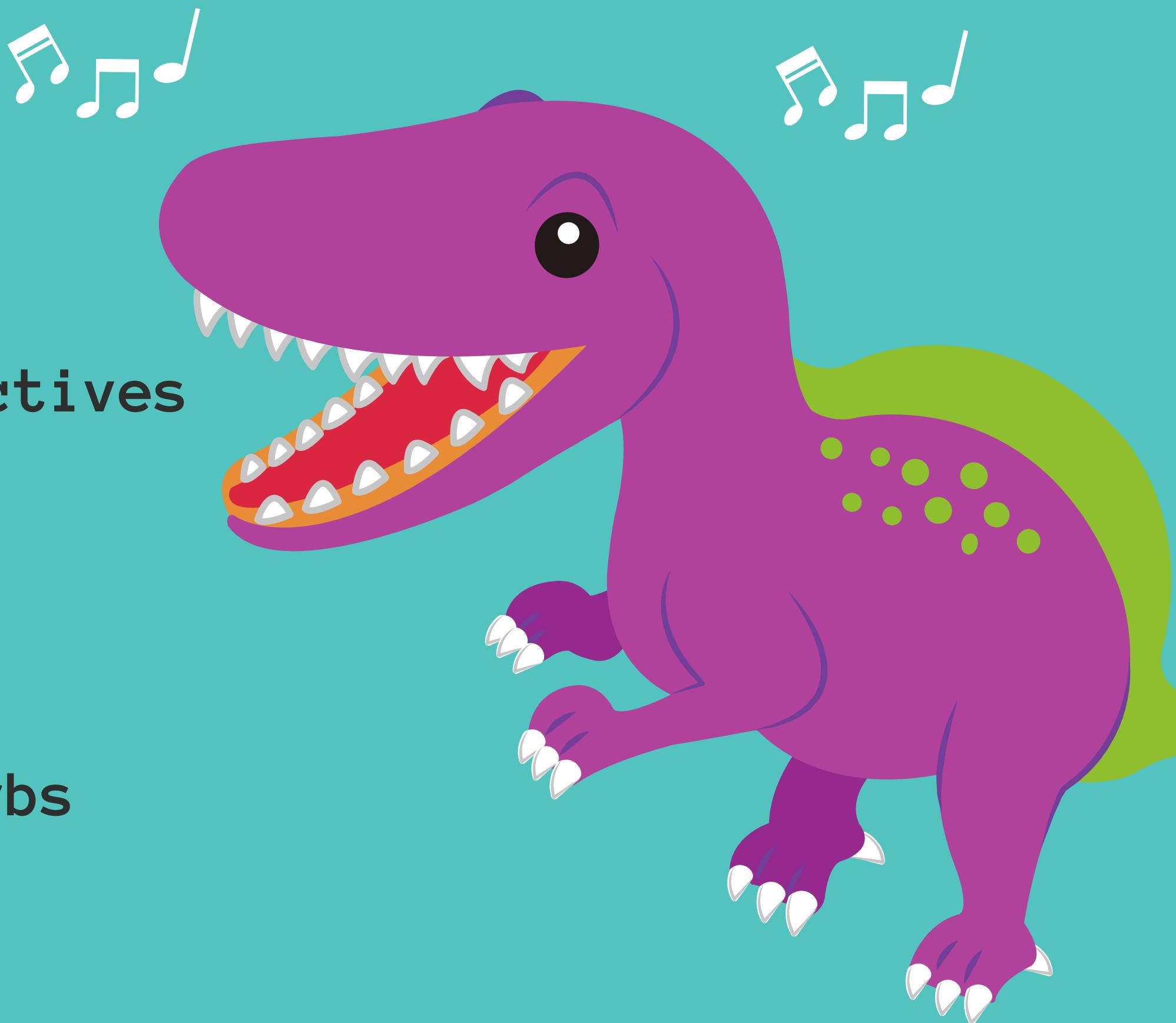


FRONT END

BACK END



THE PURPLE CSS – adjectives
DINO HTML – nouns
DANCED JS – verbs



THE TOOLS WE NEED



CHROME

Web Browser



VSCODE

Text Editor



SPECTACLE

