



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

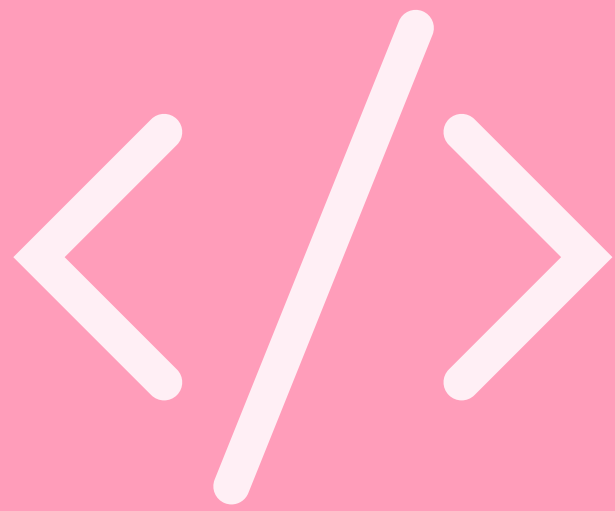
Geocoding & Maps

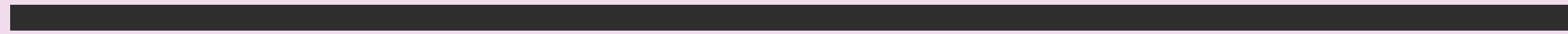


What is the Internet?
The Internet vs. The Web
How Does the Web Work?
What are HTTP requests?
What Is A Web Server?
Front End Vs. Backend
Environment Setup!
What are HTML, CSS, & JS?
What do they each do?

Unit Goals

Things We'll Cover





THE INTERNET

In a Couple of Minutes



WHAT IS IT?

"A global network of networks."

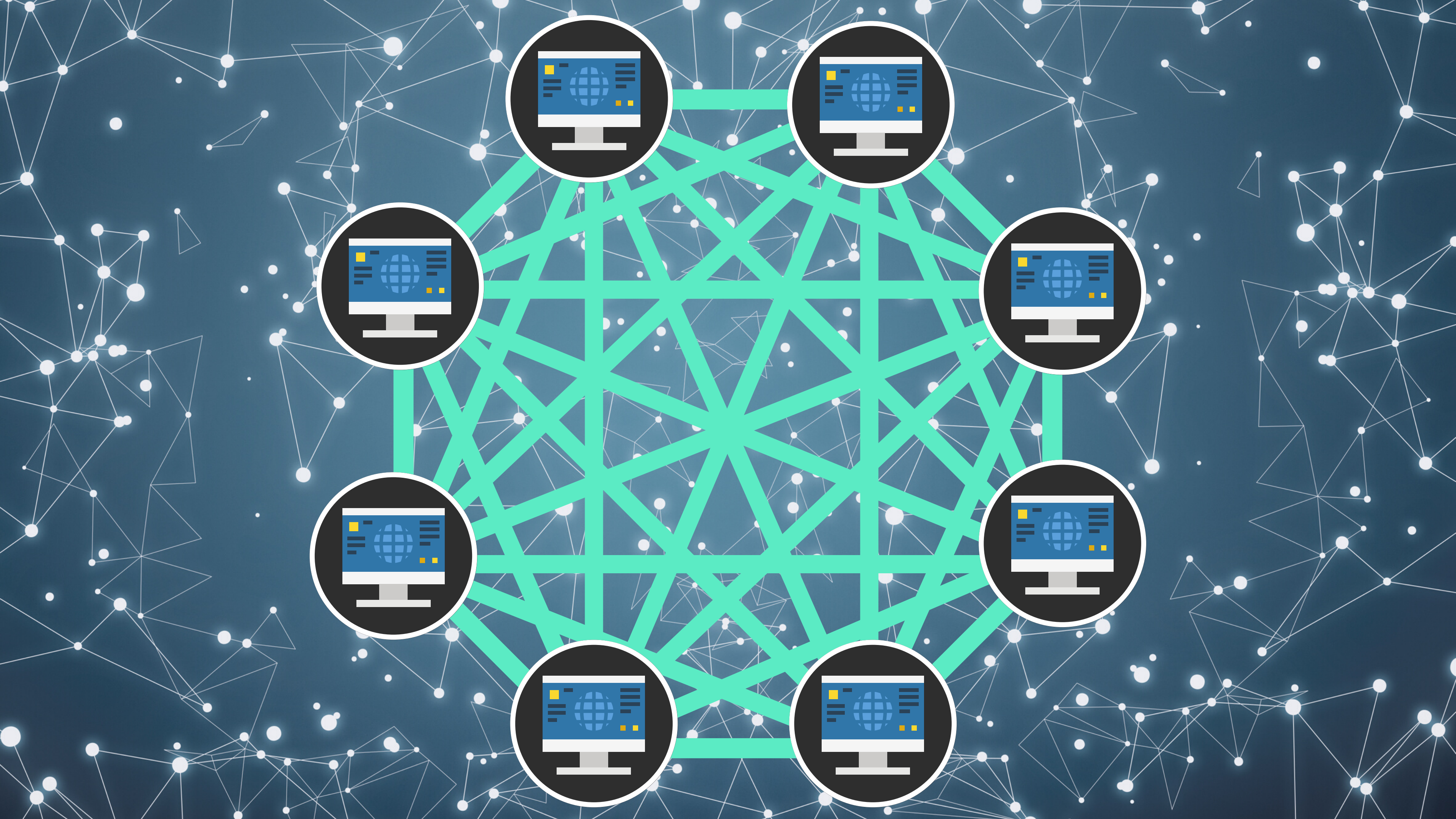
(It's just a bunch of connected computers)





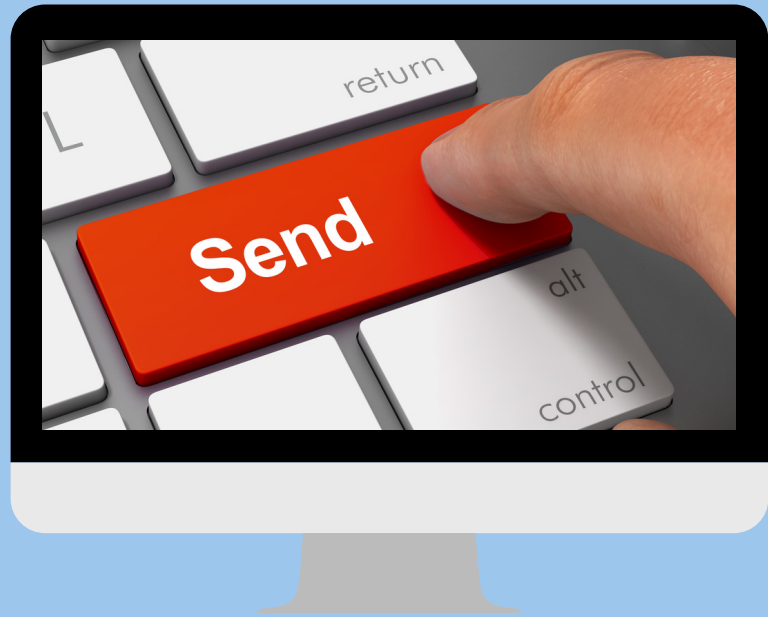
Hey



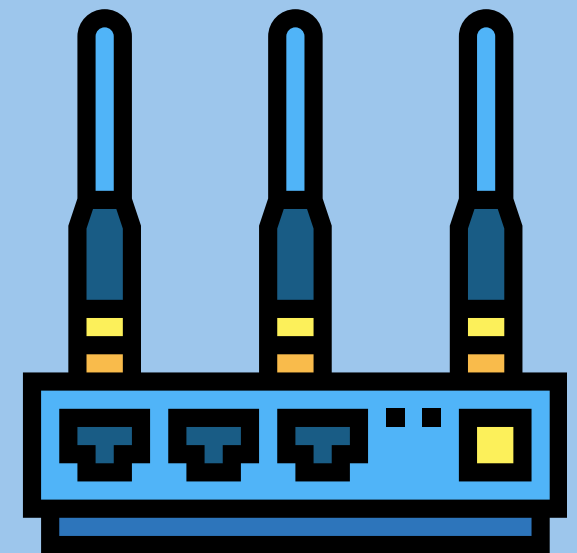




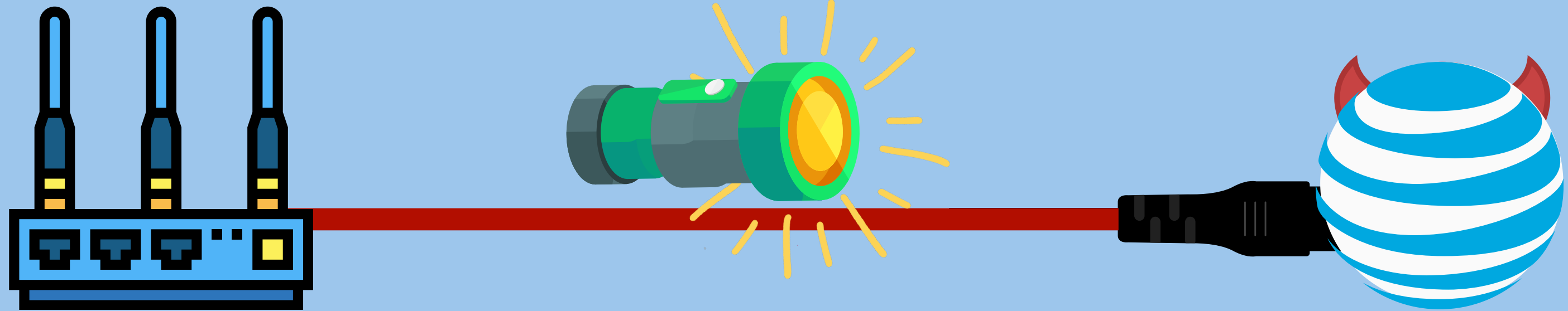




1101010101011010100
0111010101010101111



1101010101011010100
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THE INTERNET IS THE INFRASTRUCTURE
THAT CARRIES THINGS LIKE:

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



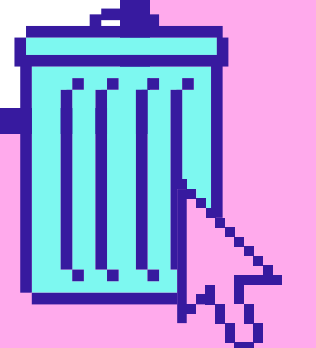
THE INTERNET

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 others resources are available over the Internet.

Documents are transferred via **HTTP**.



HTTP REQUESTS



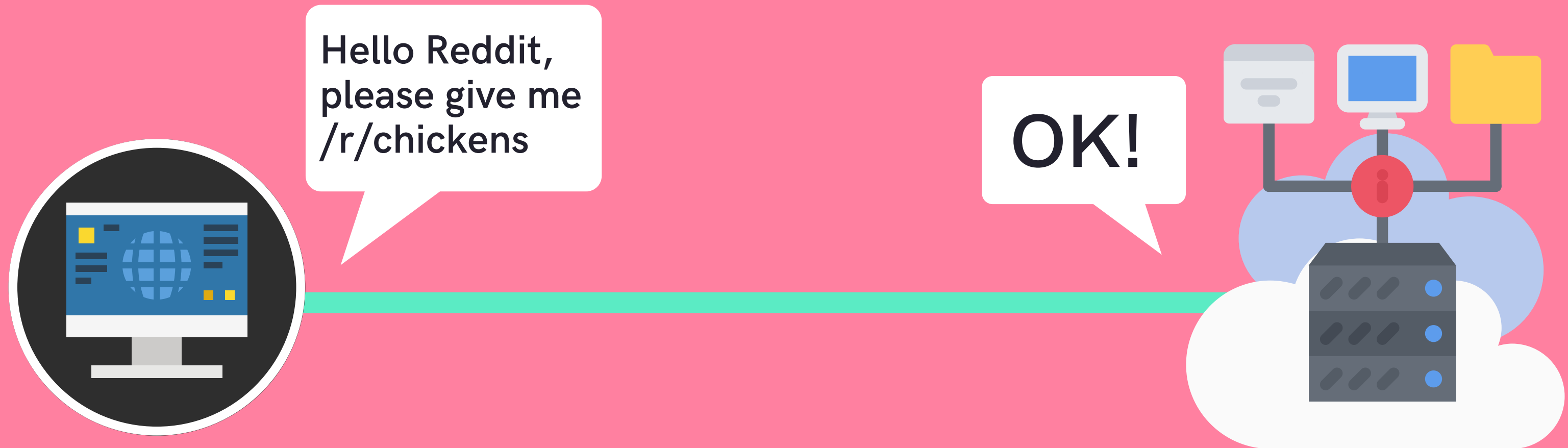
- Foundation of communication on the World Wide Web
- "Hyper Text Transfer Protocol"
- Request -> *I would like this information please*
- Response -> *Ok, here you go!*



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

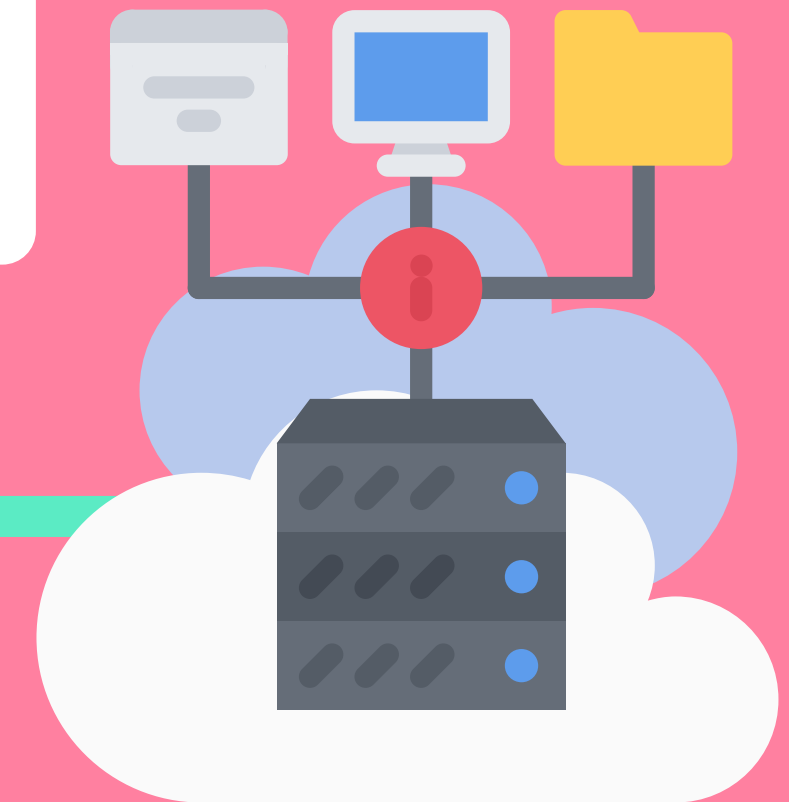
A computer* that can satisfy requests on the Web.

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



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

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



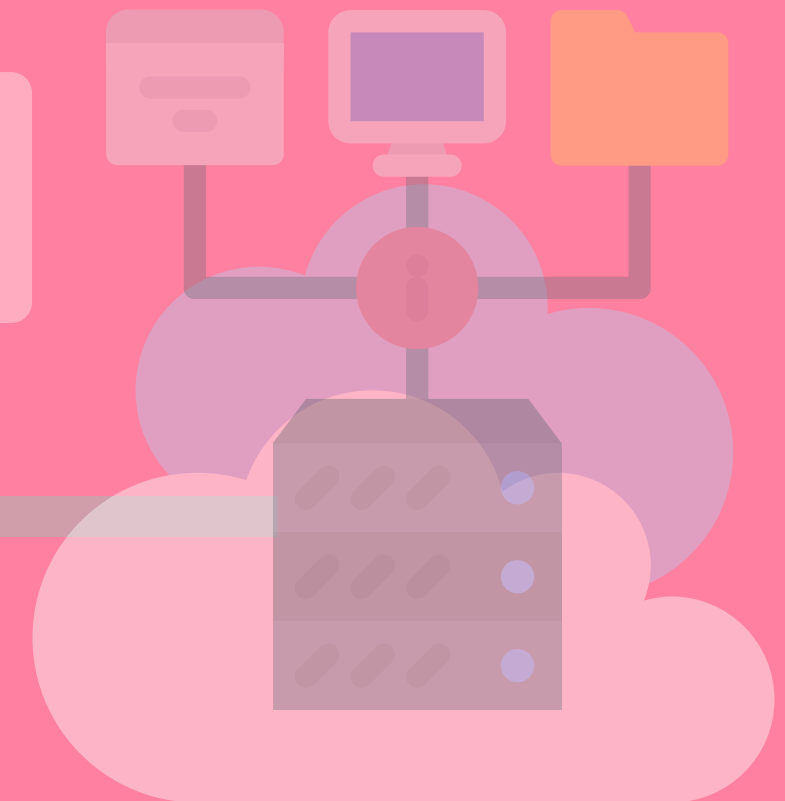
CLIENT

The computer that accesses a server

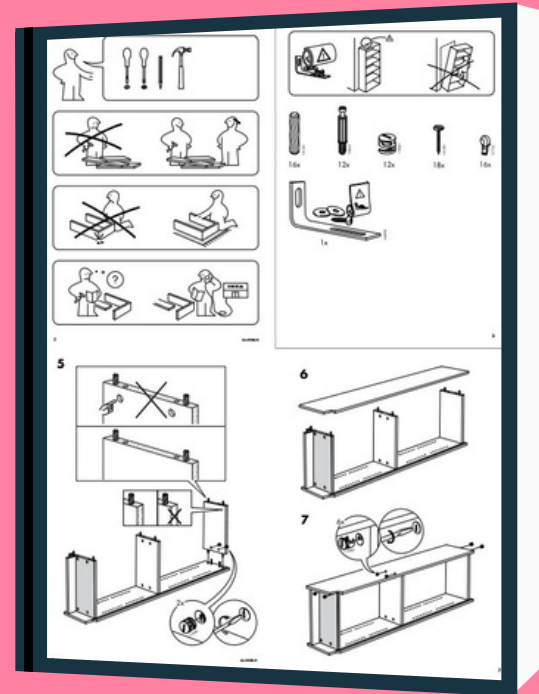
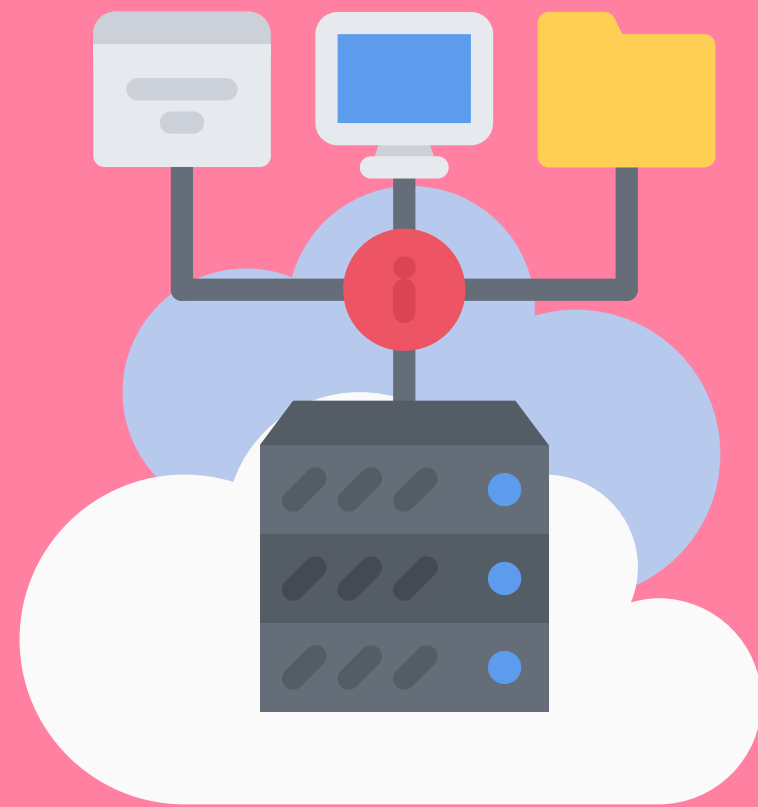


Hello Reddit,
please give me
/r/chickens

OK!



A SERVER SOMEWHERE

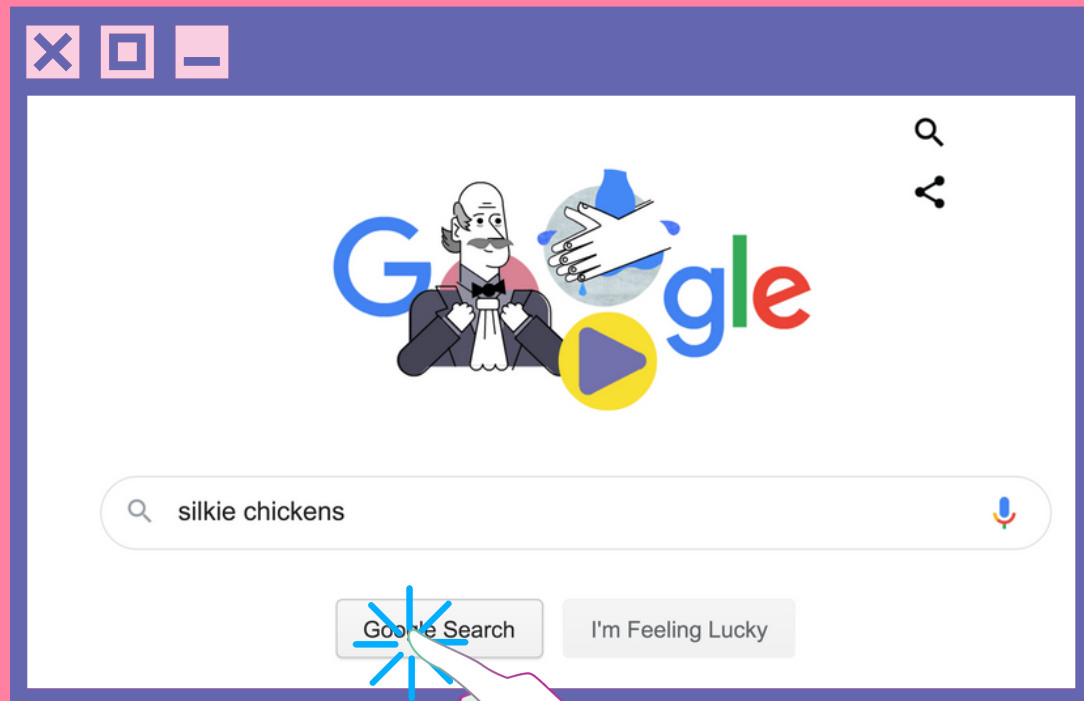


YOUR BROWSER

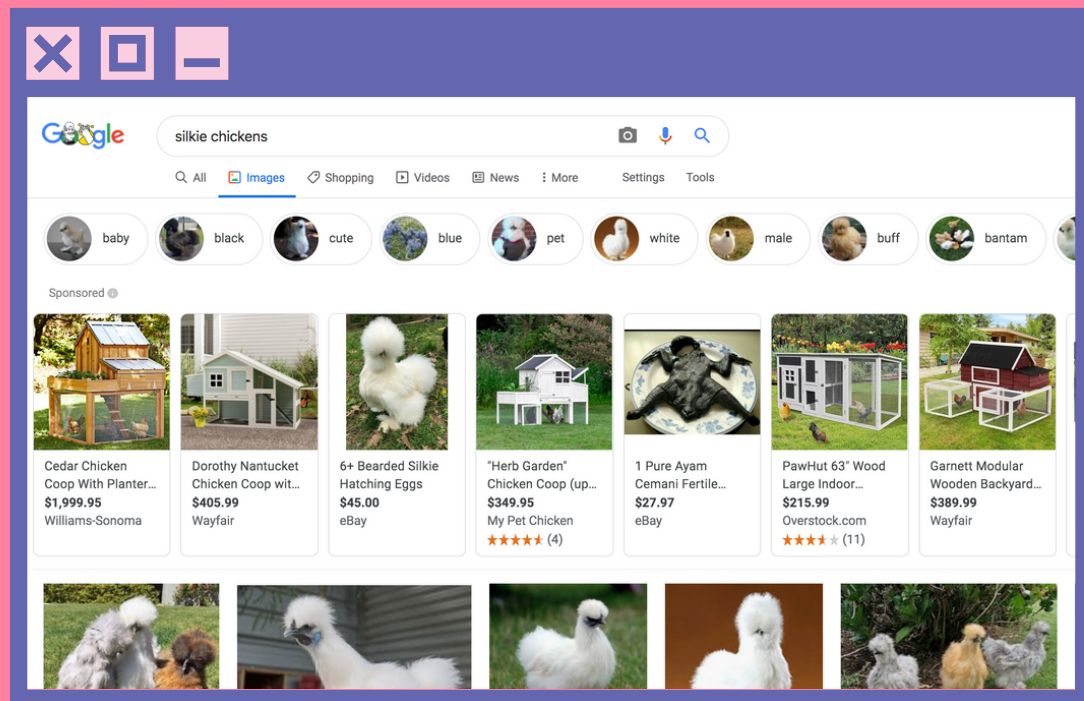


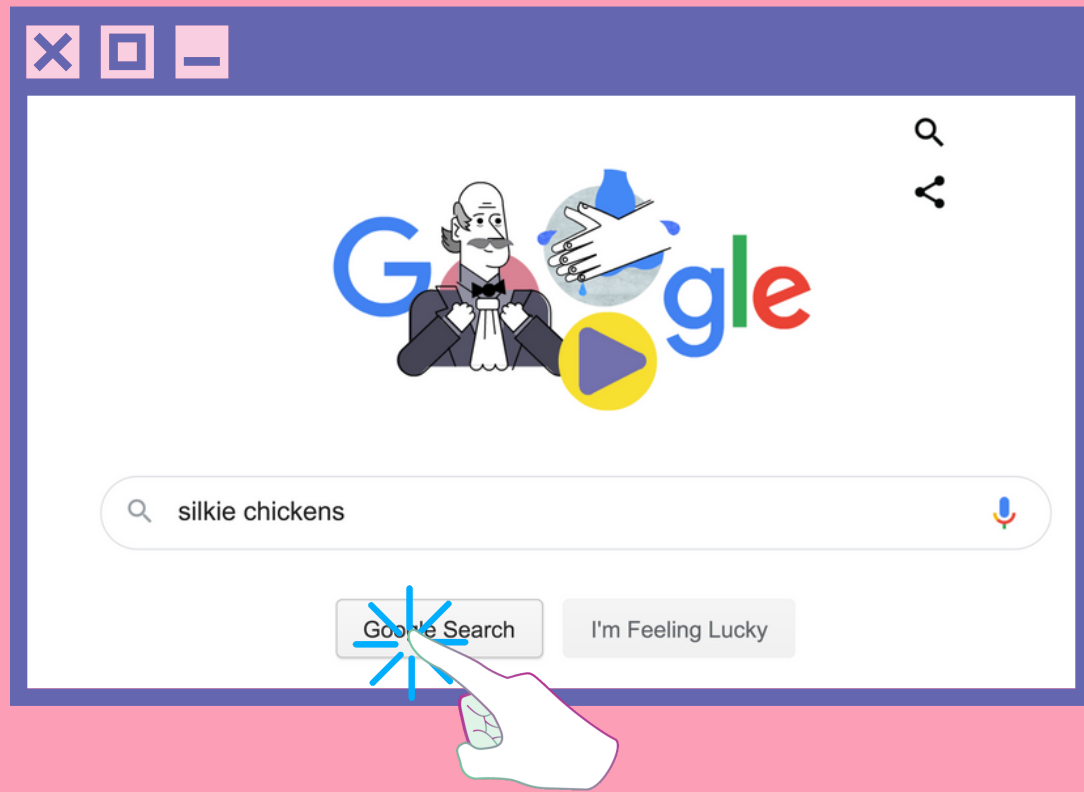
Here are the instructions!

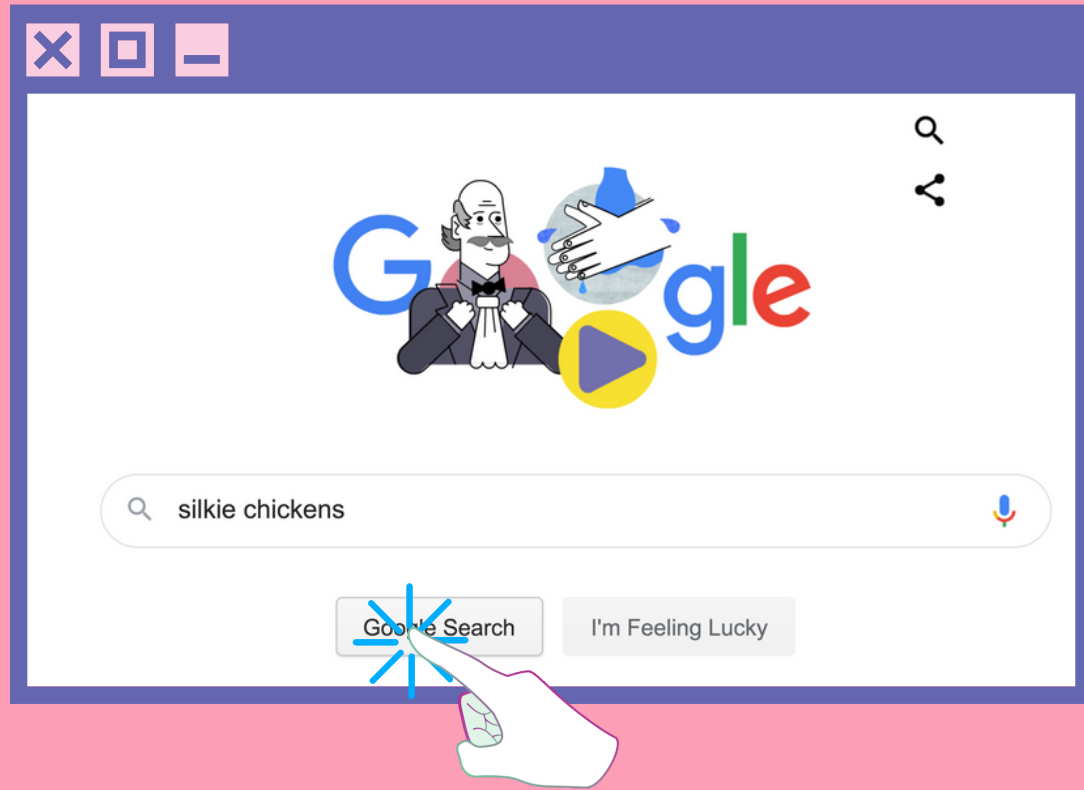
Look What I Made!



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

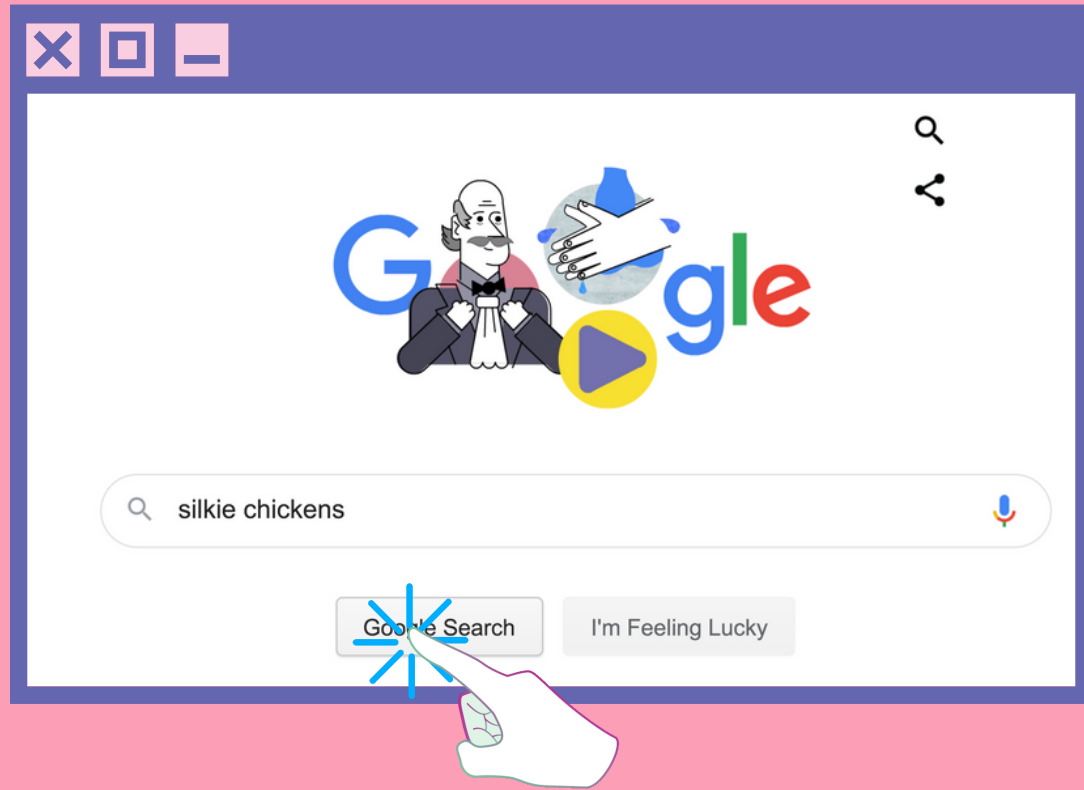






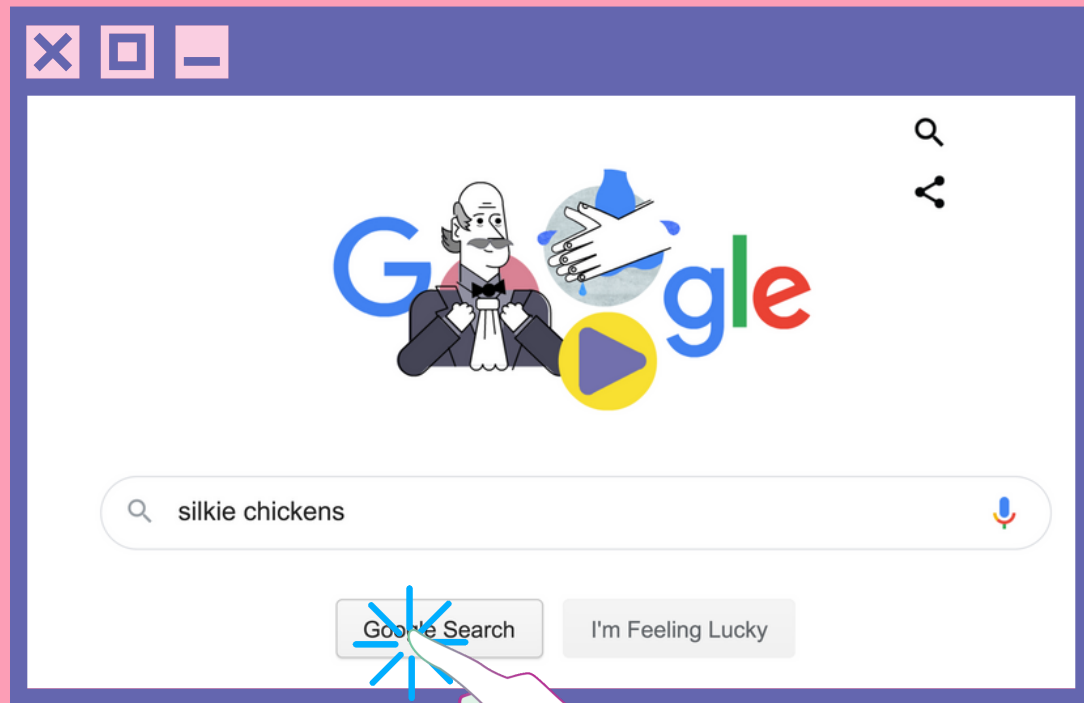
PLEASE GIVE ME
GOOGLE.COM/SEARCH?Q=CHICKENS



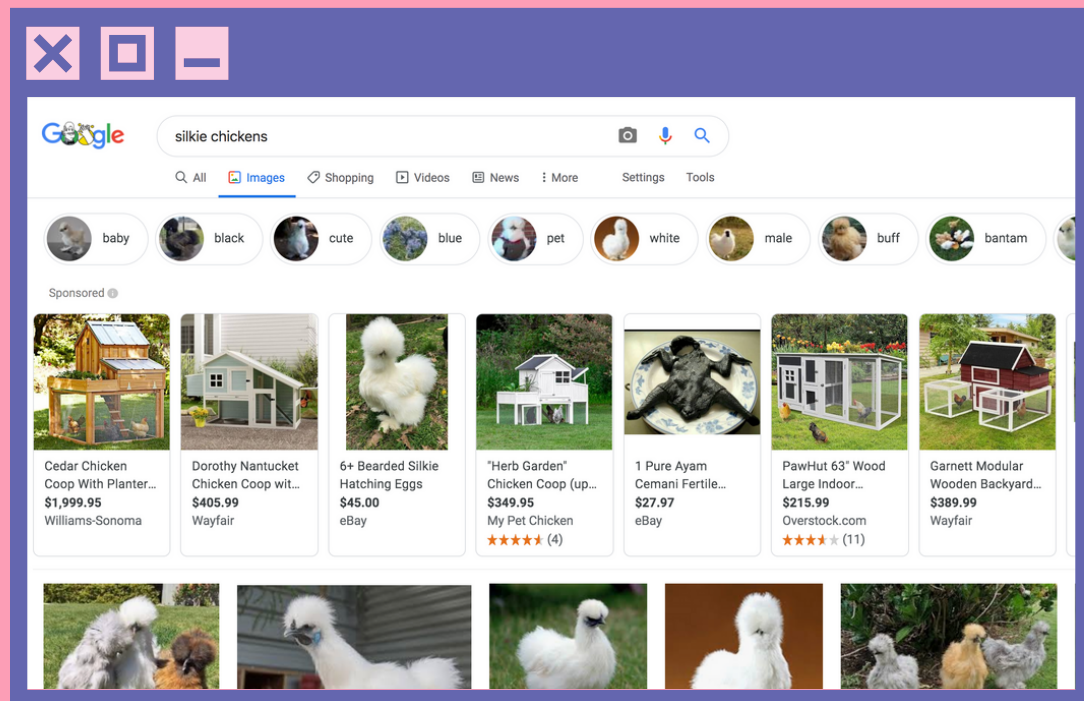


PLEASE GIVE ME
GOOGLE.COM/SEARCH?Q=CHICKENS

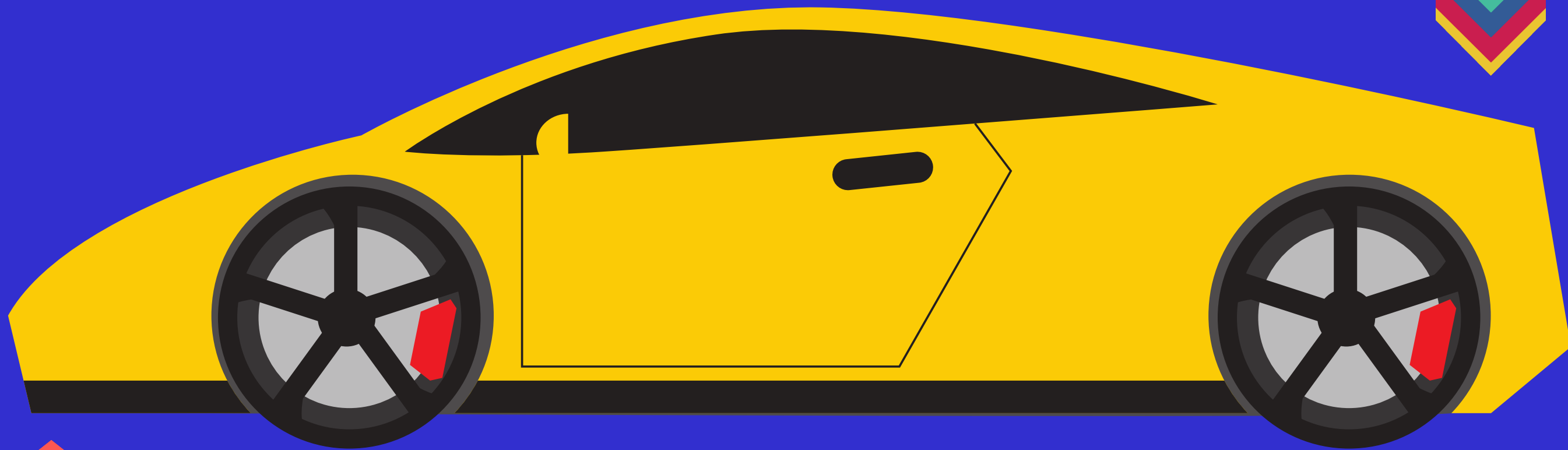




PLEASE GIVE ME
GOOGLE.COM/SEARCH?Q=CHICKENS



BACK END



FRONT END



BACK END



FRONT END

BACK END

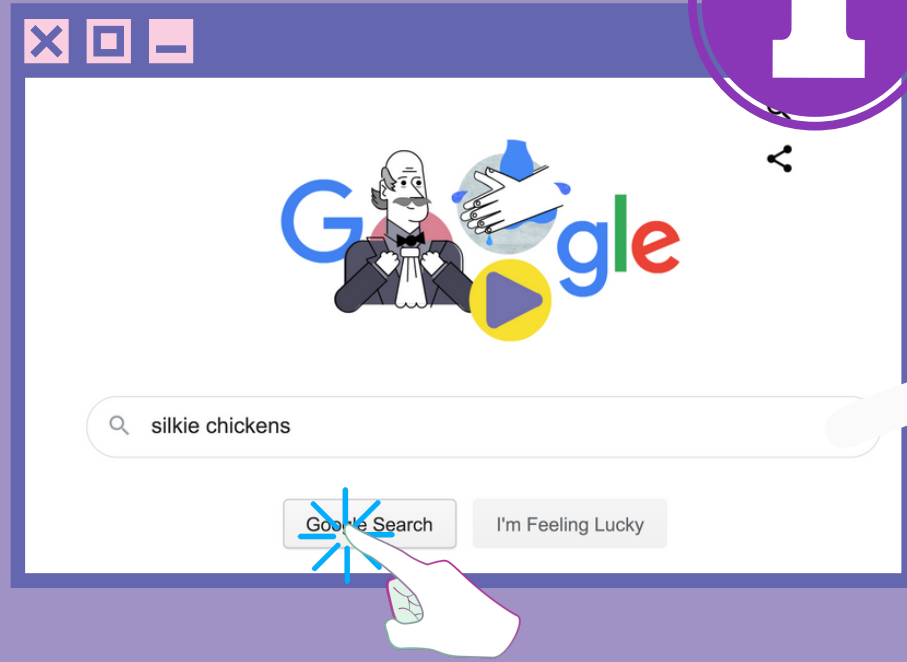


RECEIVES THE ORDER AND
ASSEMBLES THE PIZZA

FRONT END



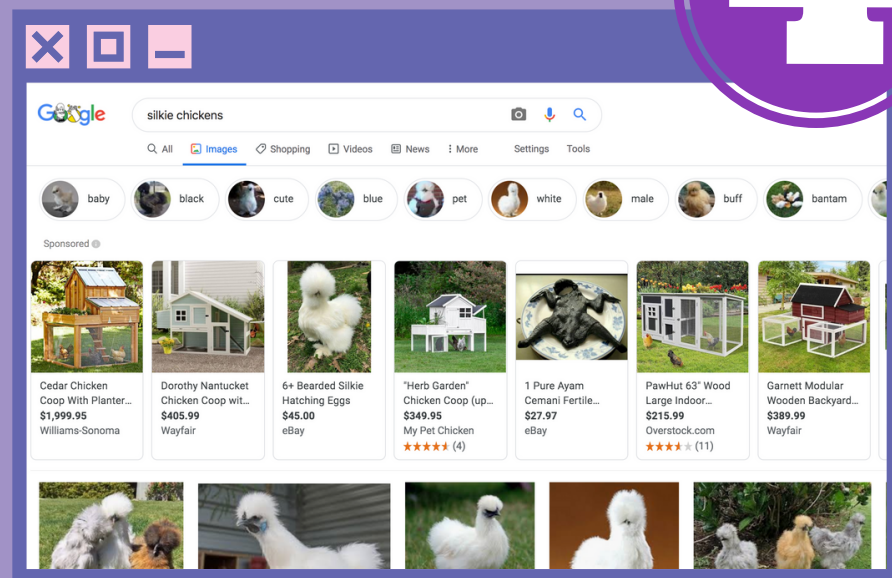
YOU STILL NEED TO BAKE IT
AT HOME! (THE BROWSER)



1

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

4



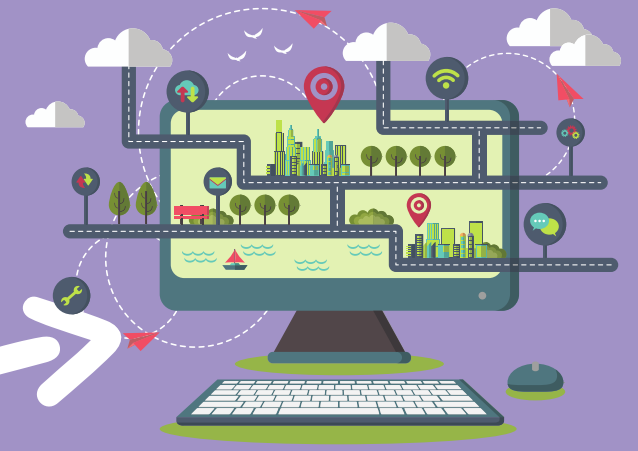
2

HANG ON,



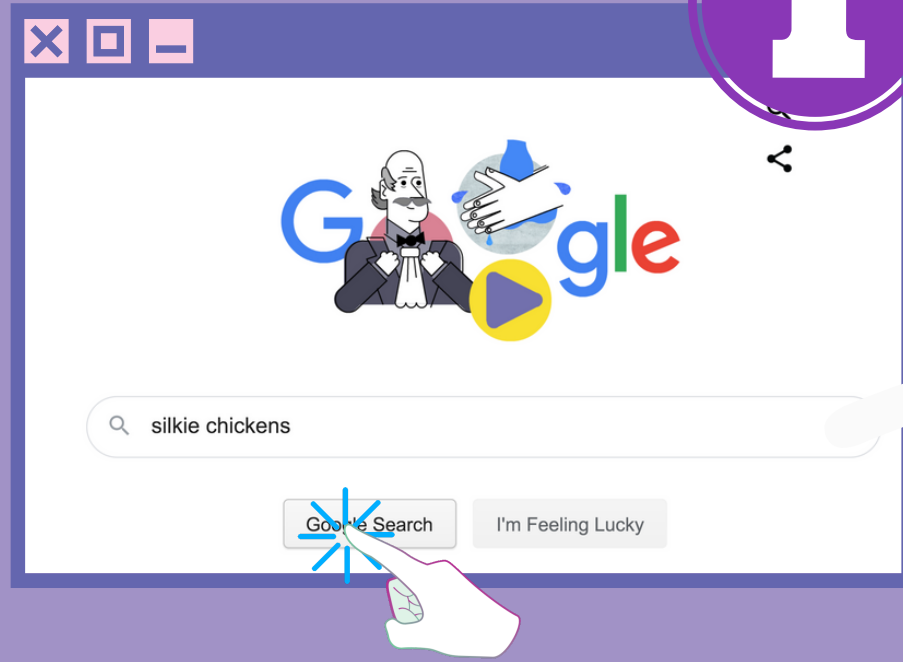
3

HERE YOU GO!



FRONT END

BACK END



1

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

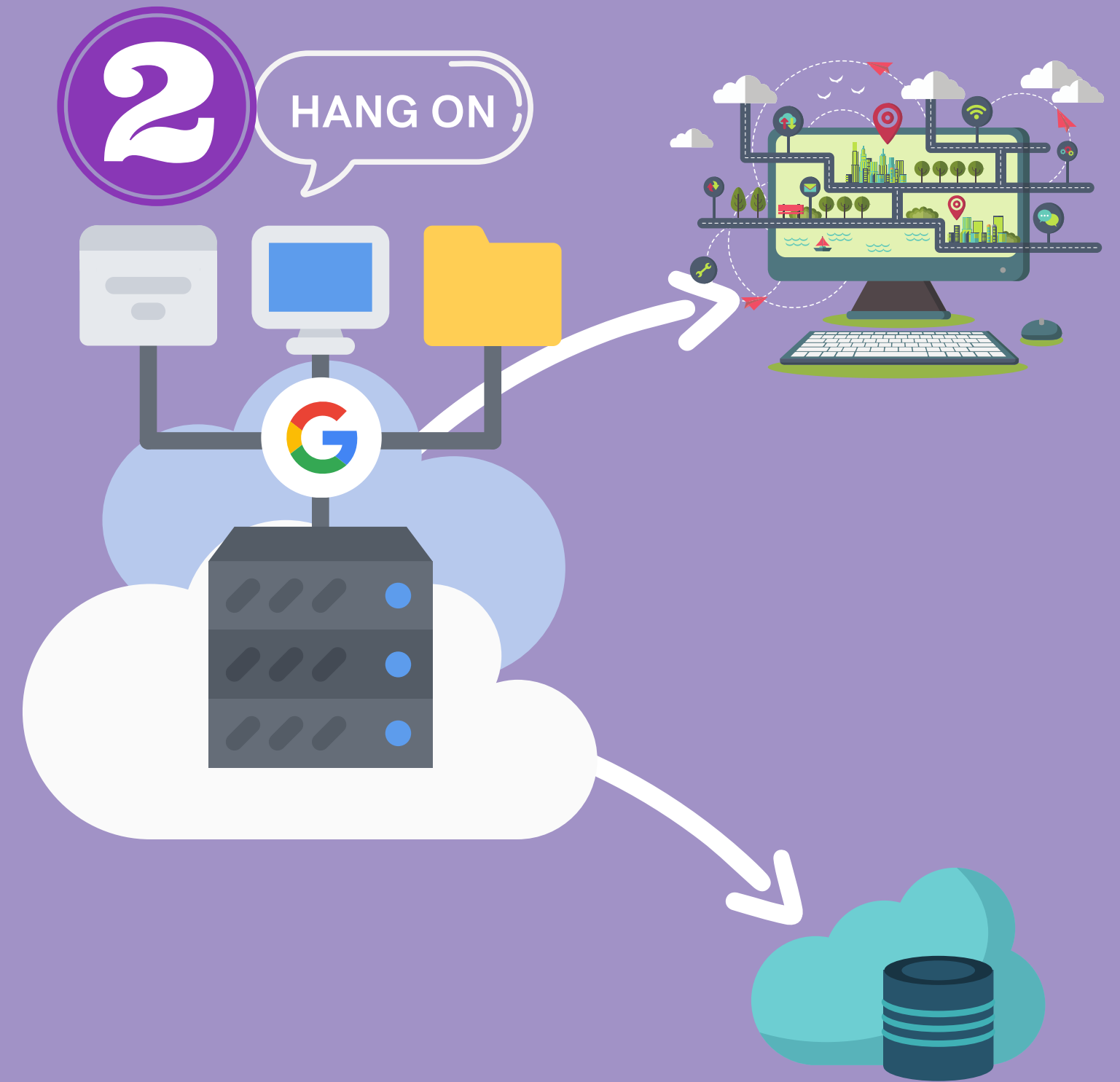


FRONT END

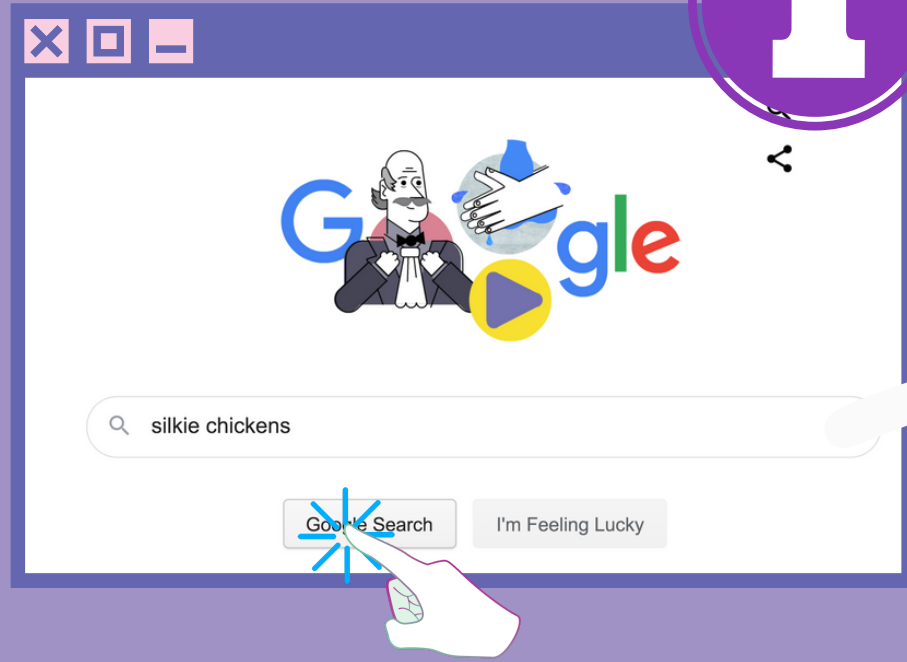
BACK END



FRONT END



BACK END



1

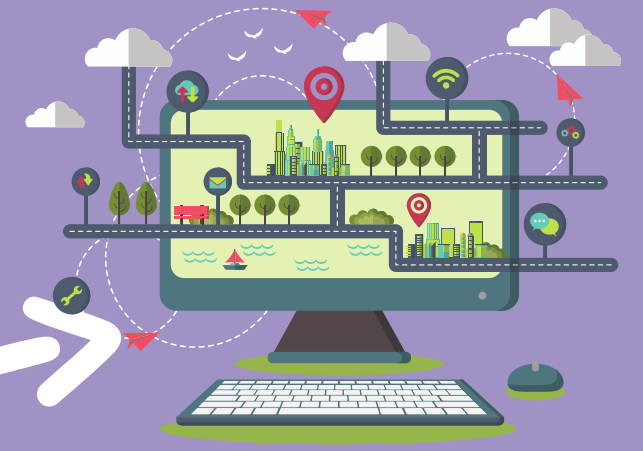
PLEASE GIVE ME
GOOGLE.COM/SEARCH?Q=CHICKENS



FRONT END

2

HANG ON,

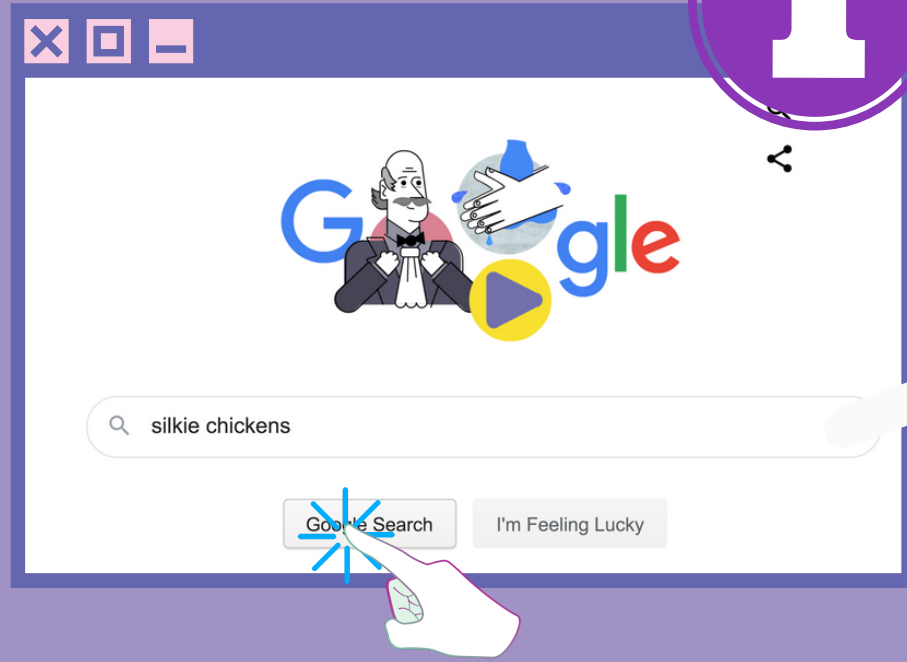


3

HERE YOU GO!



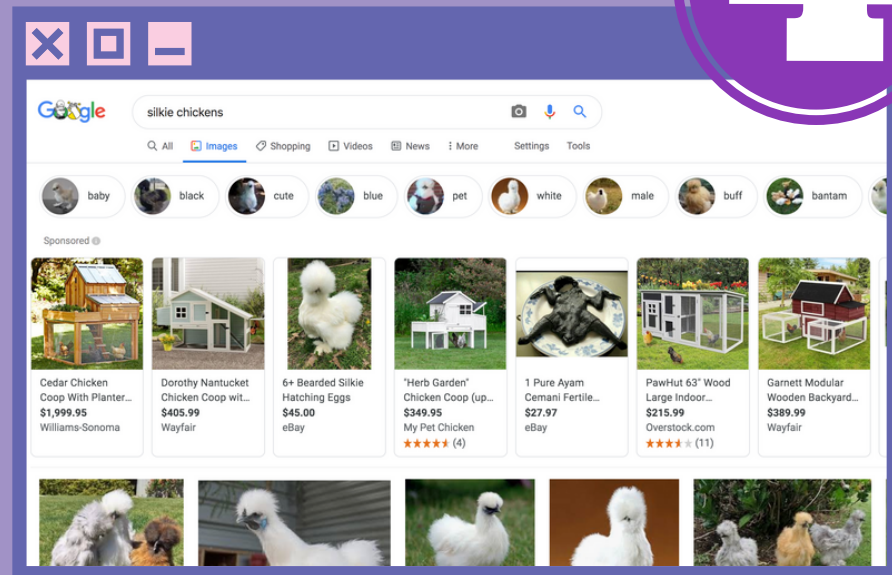
BACK END



1

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

4



2

HANG ON,



3

HERE YOU GO!



FRONT END

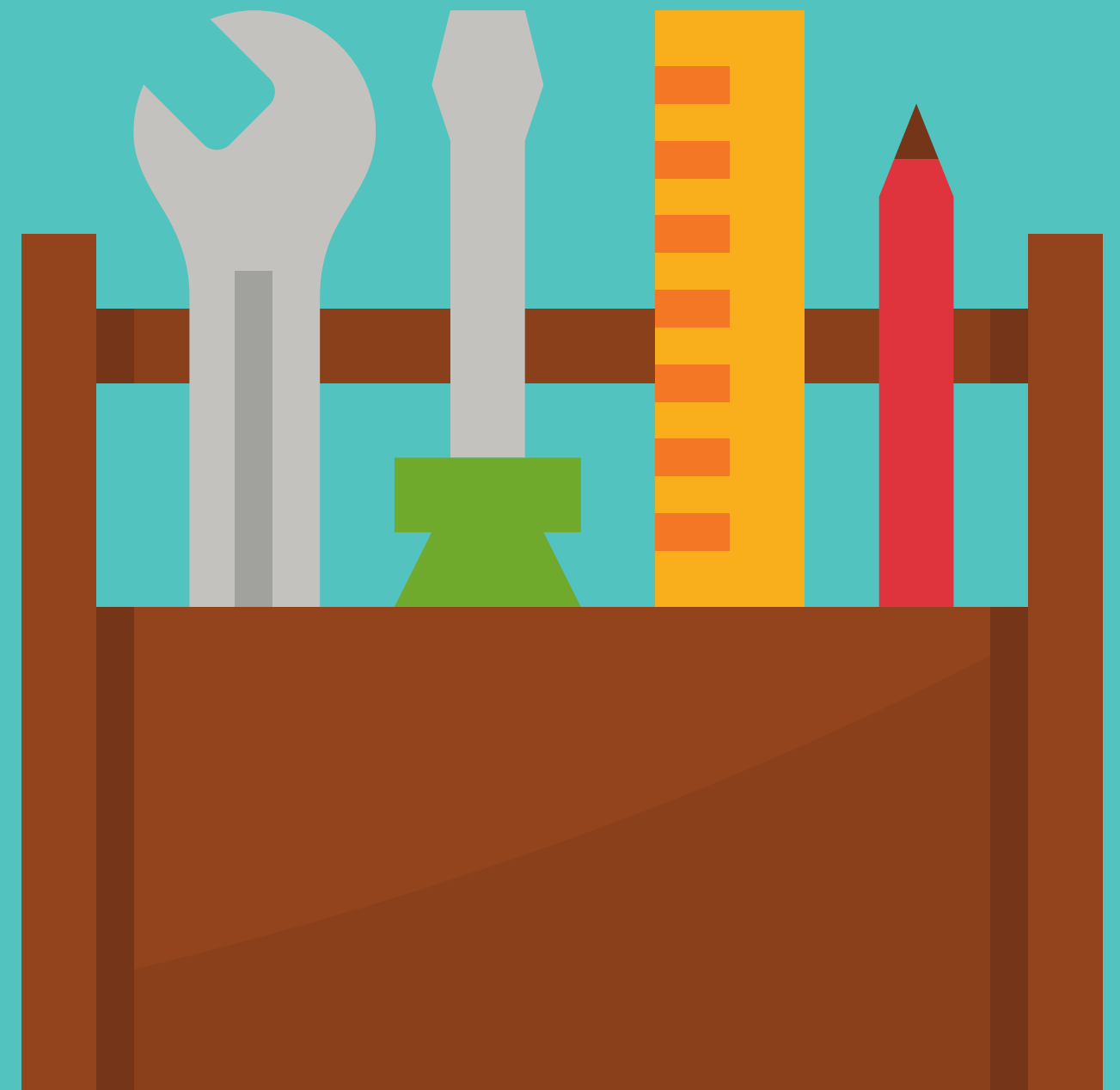
BACK END



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



THE TOOLS
WE NEED



CHROME

Web Browser



VSCODE

Text Editor



SPECTACLE

