

INTERNET AND NETWORKING BASICS

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WELCOME TO THE WEB!

The internet is a giant "invisible neighborhood" where every computer is connected.

Did you know that when you click a button, your message might travel under the ocean or through a satellite in space to get where it's going?



THE TEAM



Howard Ong
Project manager



Connor Hamilton
Project lead



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Community lead

THE WIRES AND THE WAVES (HARDWARE)



How does the "internet juice" get into your house?

Underground & Underwater: Huge pipes at the bottom of the ocean carry the internet between continents.

In Your House: * The Router: It's the "Translator." It takes the internet from the wire and turns it into Wi-Fi waves.

THE MAILMAN & THE ADDRESS (IP ADDRESSES)

The Problem:

If I want to send a picture to you, how does the internet know not to send it to the fridge instead?

The Solution:

The IP Address. It's a string of numbers that acts like your house's street address.

The DNS (The Phonebook):

- We type google.com, but the computer looks up the number (like 142.250.190.46). It's the internet's giant contact list!

SERVERS: THE DIGITAL LIBRARIES



Where do YouTube videos live when you aren't watching them?



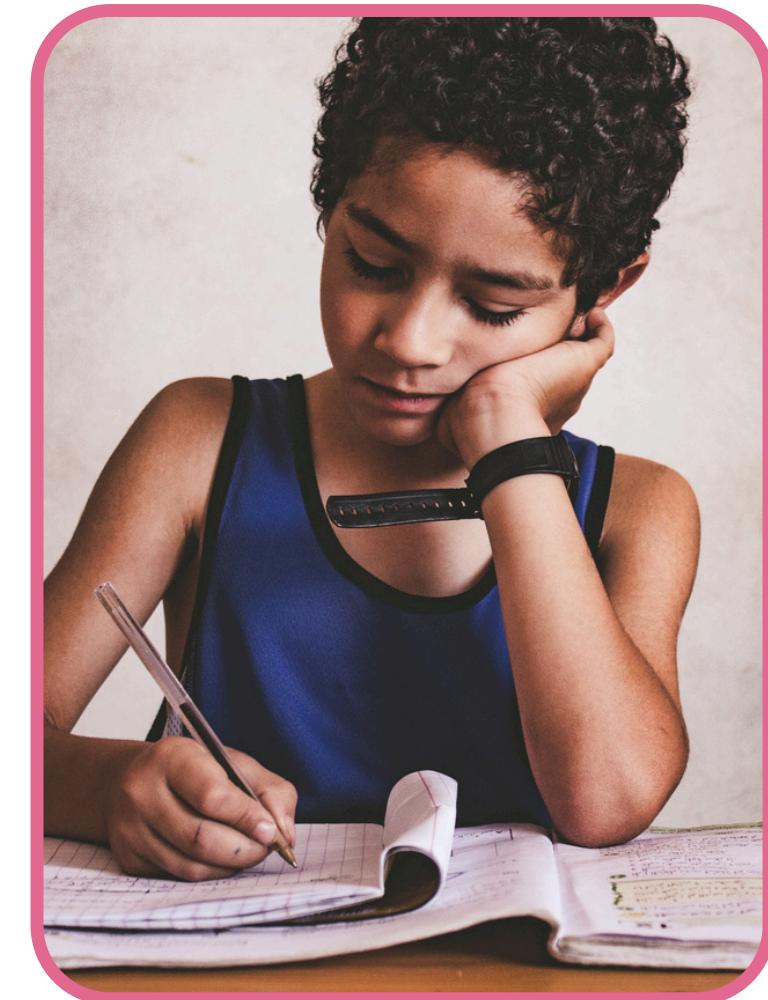
They live on Servers.



A server is just a powerful computer that stays "awake" 24/7 in a very cold room.



When you want to watch a video, your computer "knocks on the door" of a server far away and says, "Can I see that Minecraft video, please?" The server says "Sure!" and sends it back in little pieces.



STAY SAFE IN THE DIGITAL PARK!

THE RULE OF THREES:

- Private info stays private (Don't give out your real address)
- Ask a grown-up
- Be kind