

Server Basics



No Capital Corp | Poly Team

What is a Server?

What is a Server?



A Computer

[https://www.britannica.com/
technology/computer](https://www.britannica.com/technology/computer)

What is a Server?



A Computer, Seriously!

[https://www.britannica.com/
technology/computer](https://www.britannica.com/technology/computer)

Computers Are Everywhere...



Images from internet. Used for educational purposes only.

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Computers Are Everywhere...

Maybe...



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That was a joke

When You Visit a Website...

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 - DNS server: A computer storing ip addresses associating with domain names (a “phone book”)

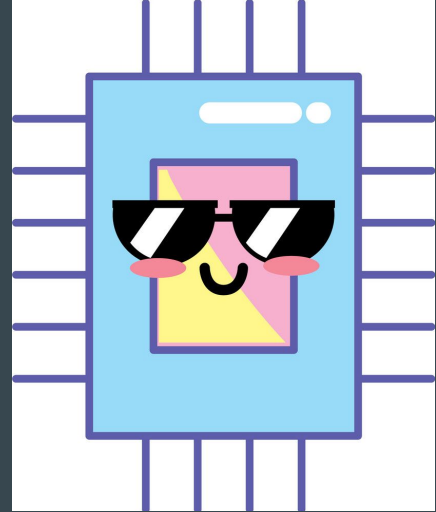
When You Visit a Website...

- Type in “www.thepolyteam.com” into the browser
- Browser sends a request to **DNS** server
 - DNS server: A computer storing ip addresses associating with domain names (a “phone book”)
- “www.thepolyteam.com” resolves to **69.163.226.68** (the “**A**” record of www.thepolyteam.com)

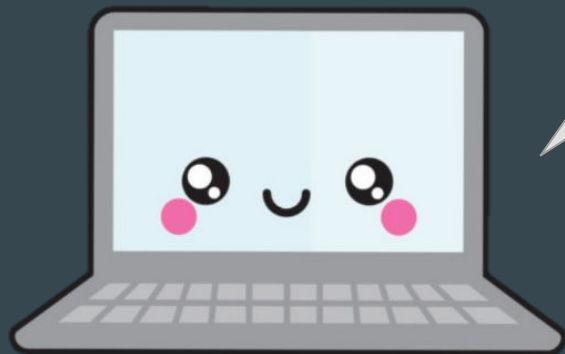
When You Visit a Website...

- Type in “www.thepolyteam.com” into the browser
- Browser sends a request to **DNS** server
 - DNS server: A computer storing ip addresses associating with domain names (a “phone book”)
- “www.thepolyteam.com” resolves to 69.163.226.68 (the **A** record of www.thepolyteam.com)
- Your browser starts communicating with 69.163.226.68.

Communicating to Server

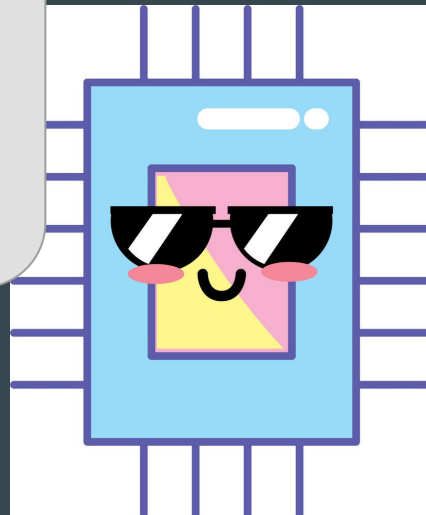


Communicating to Server



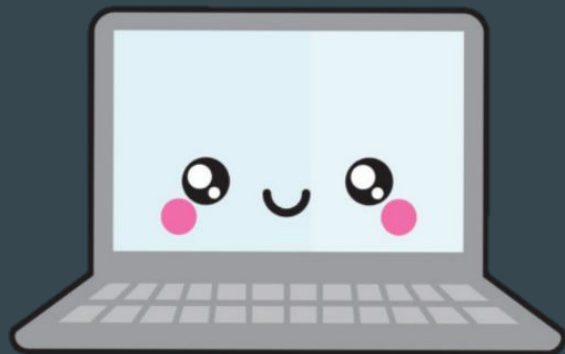
208.97.163.77

Hello,
69.163.226.68!
Look at how
cute I am!



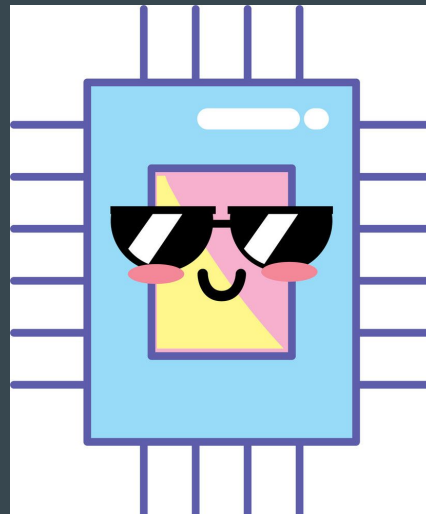
69.163.226.68

Communicating to Server



208.97.163.77

Hi,
208.97.163.77,
what do you
want today?



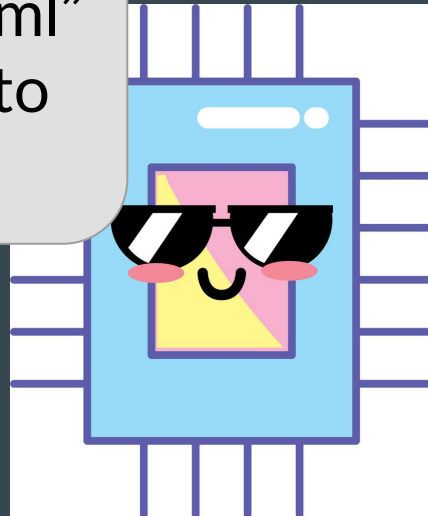
69.163.226.68

Communicating to Se

I heard about the
“JimmyIsSoCool.html”
, can you send that to
me?

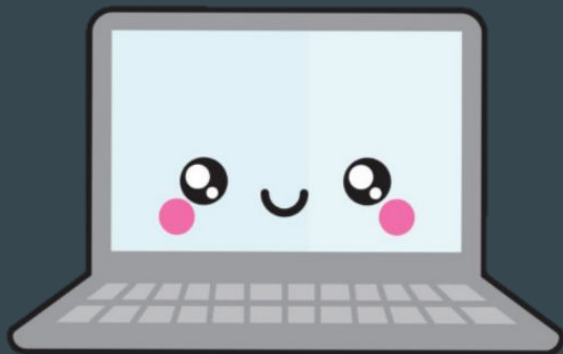


208.97.163.77

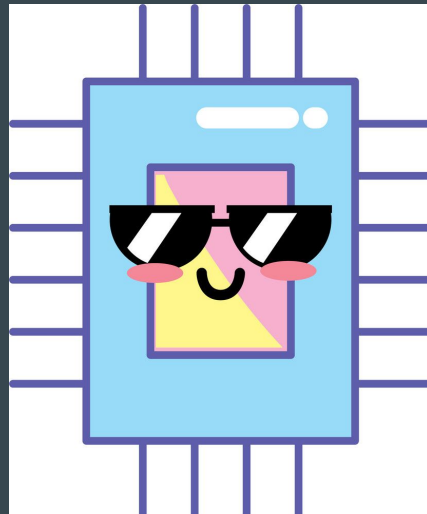


69.163.226.68

Communicating to Server

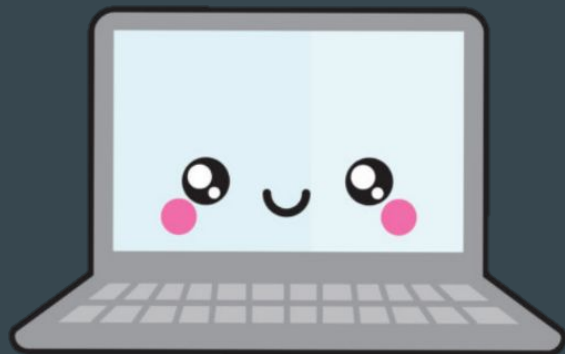


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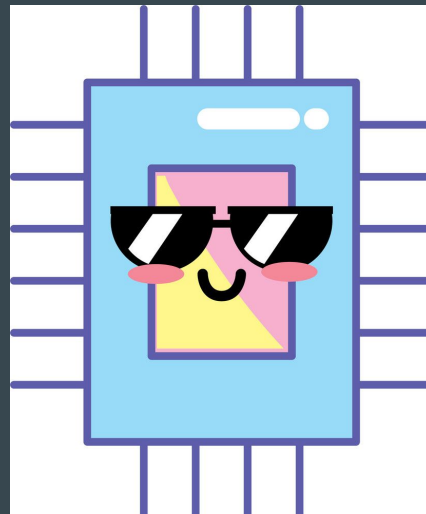
69.163.226.68

Communicating to Server



208.97.163.77

By the way, I
think Jimmy is
cool, too!



69.163.226.68



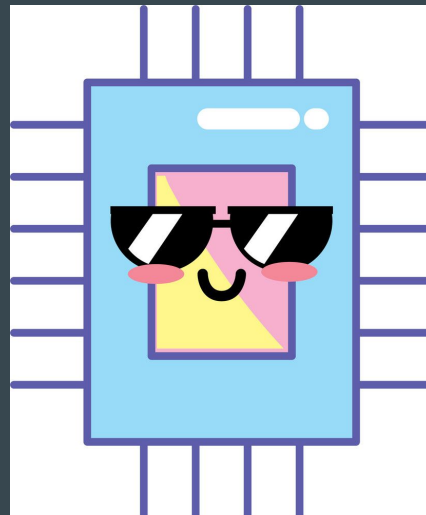
Communicating to Server



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Thank you very much, but let's continue the show!

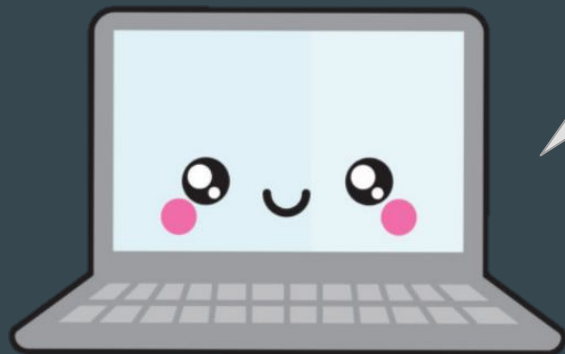


69.163.226.68



Jimmy and his friends

Communicating to Server



208.97.163.77

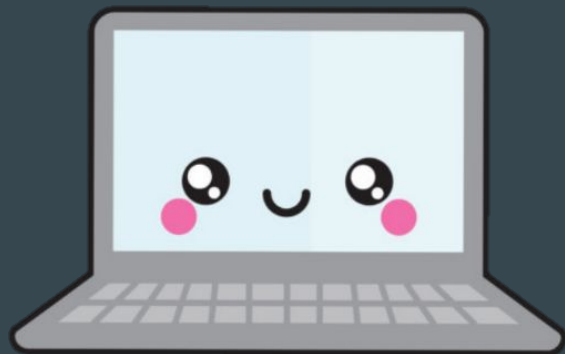
Wait a second...
I found this in
the html!

```
<link rel="stylesheet"  
src="./style.css" />
```

69.163.226.68

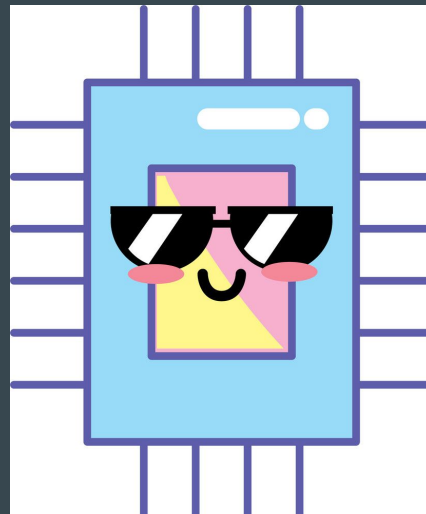


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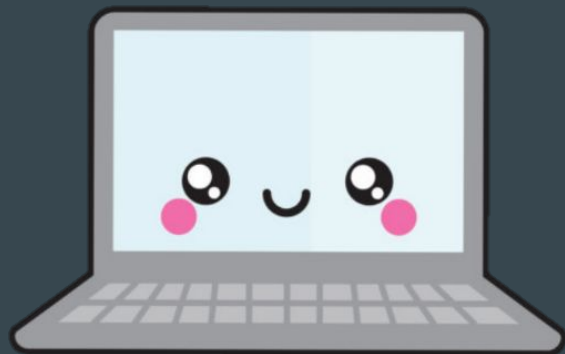
No worries! I've got you covered!



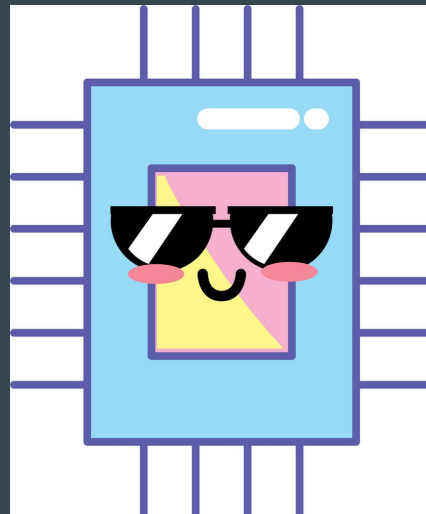
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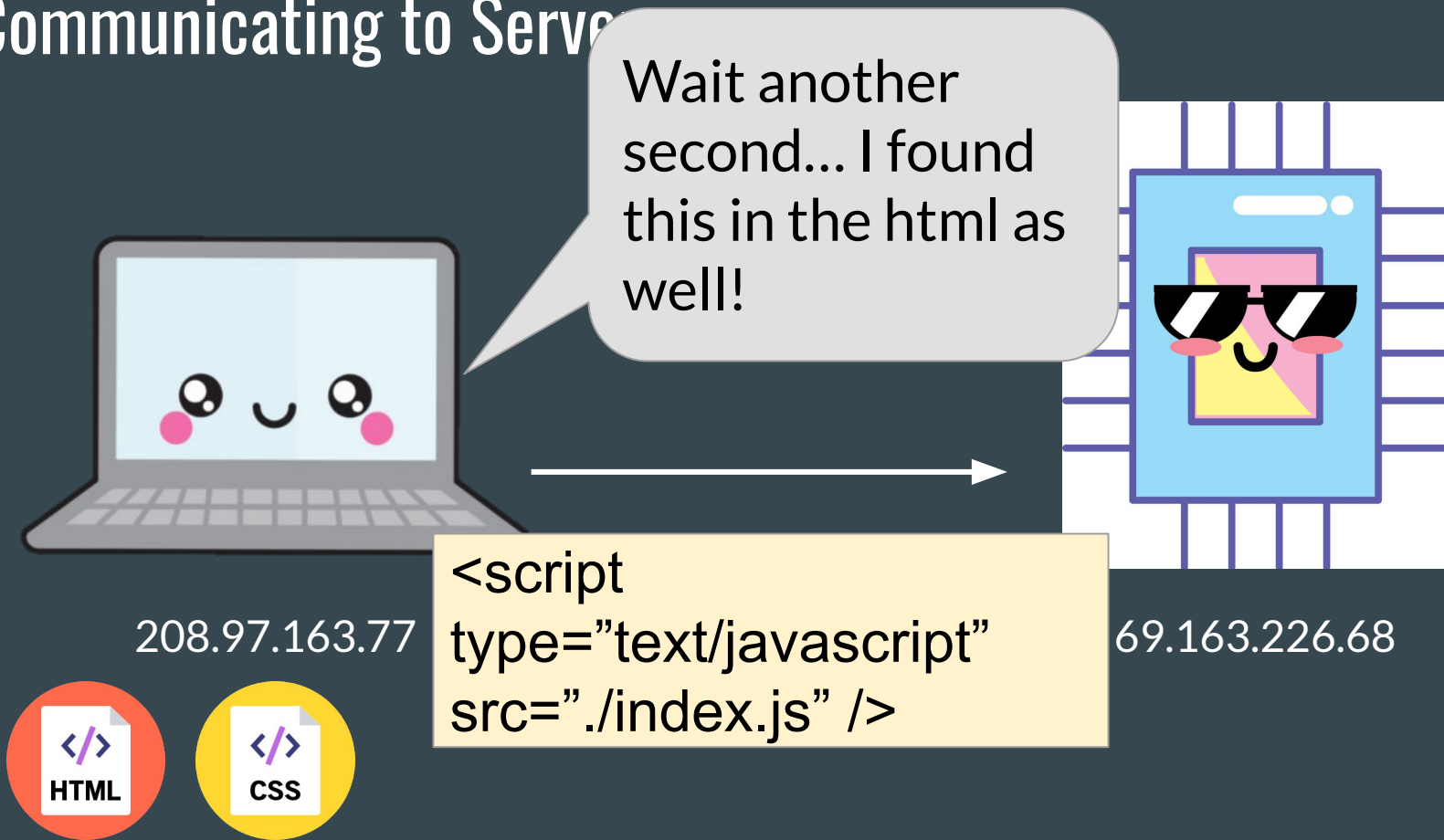
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69.163.226.68



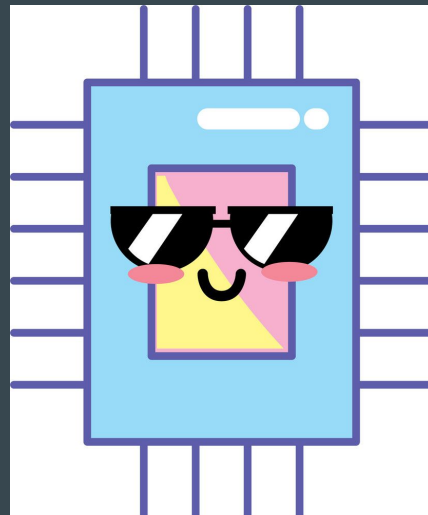
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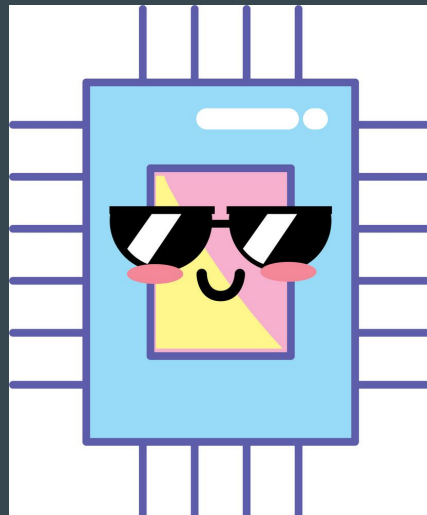
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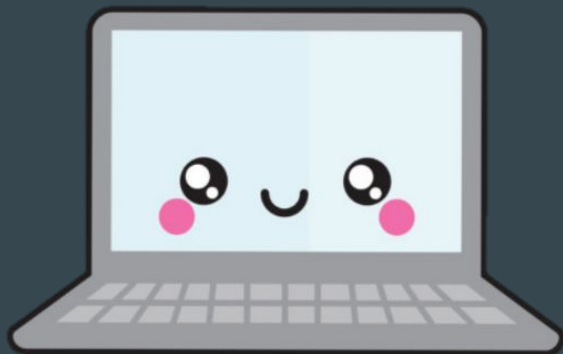


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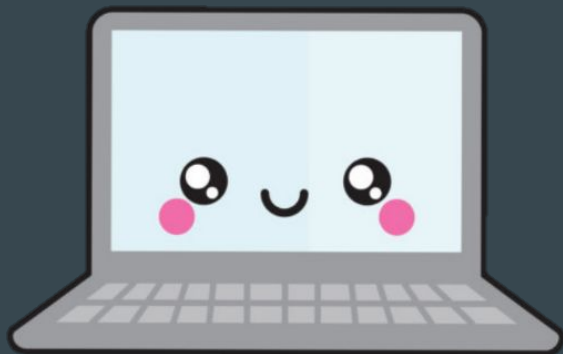


Build /
Render



Compile
/ Run

Communicating to Server



208.97.163.77



Build /
Render



Compile
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More on this in optimization strategy (if we have time)

HTTP Methods

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- GET, POST, PUT, HEAD, DELETE, PATCH, OPTIONS

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- GET, POST, PUT, HEAD, DELETE, PATCH, OPTIONS (not the options you buy)

GET

- Used to request data from source
- Your browser sends GET requests when you visit a web address
- Usually no custom request body (additional information about request)

POST

- Used to send data to a server to create/update a resource
- Usually contains custom request body (additional information about request)

Creating a Node Server

Demo

Code along if you can!

Development Console