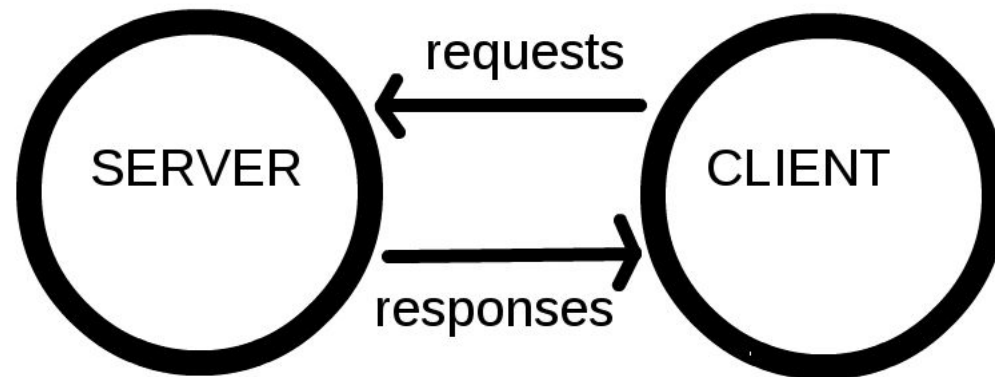


Getting into it!

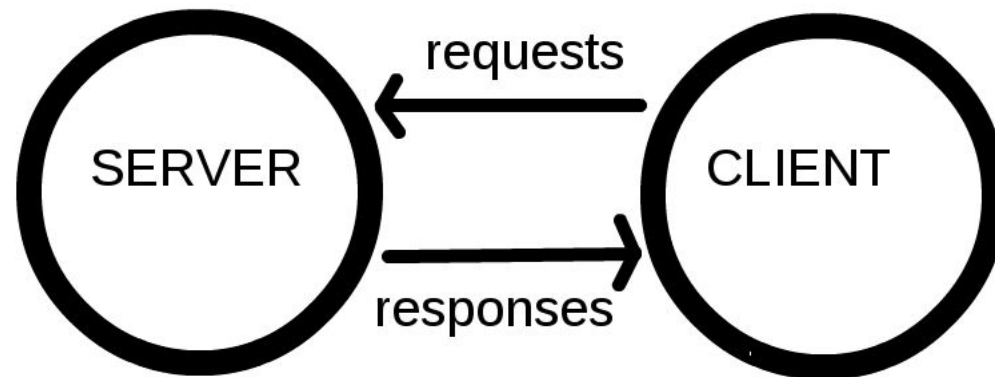
How the web works

- There are two kinds of computers: clients and servers.



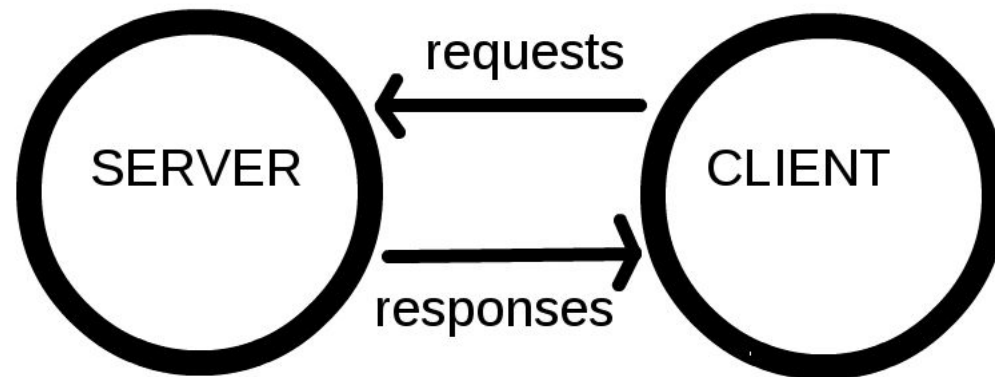
How the web works

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- Clients can be any kind of web-connected computer: your actual computer, your phone, your fancy doorbell, etc.



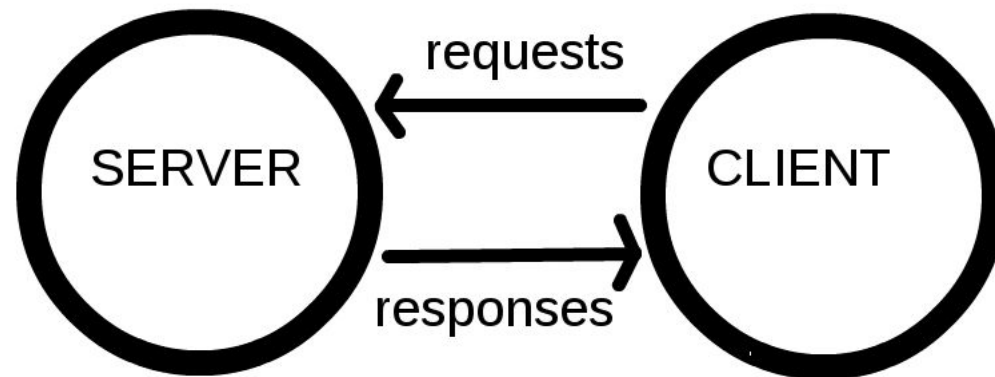
How the web works

- There are two kinds of computers: clients and servers.
- Clients can be any kind of web-connected computer: your actual computer, your phone, your fancy doorbell, etc.
- Servers are the computers that store websites and apps.



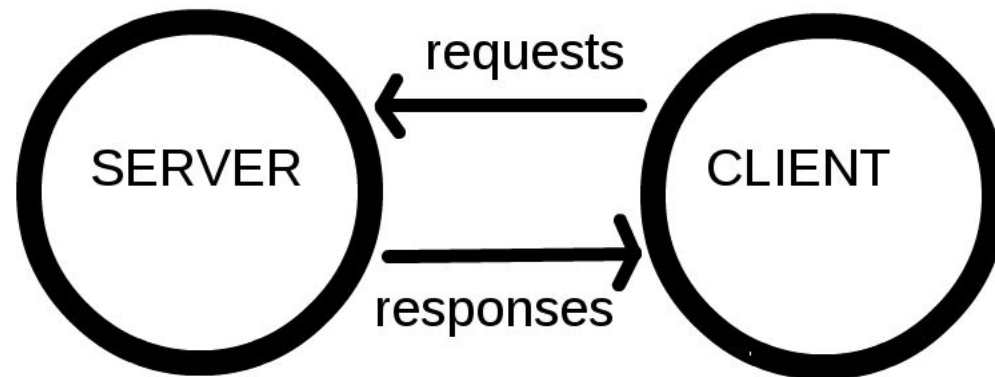
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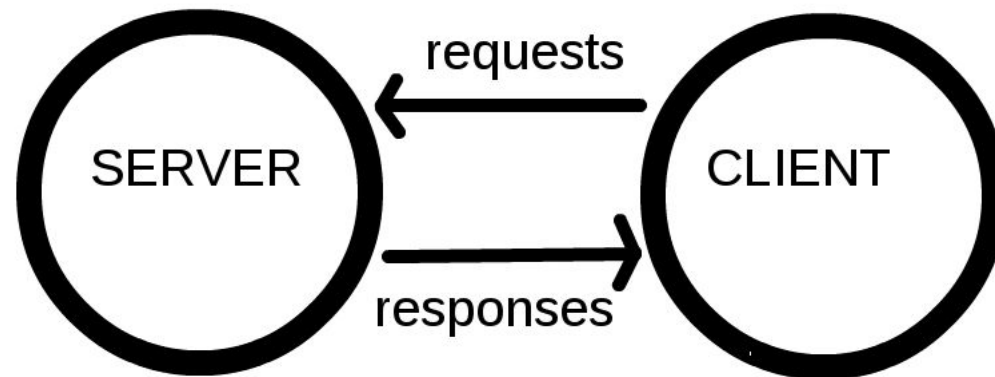
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How the web works

- When you type a URL into your browser, the browser sends an HTTP **request** message to the server, asking to send a copy of the website (or whatever) back to it.
- The server **responds**, and sends back the website's files.
- Your browser assembles the files and renders them.



HTML vs. plain text

- HTML stands for HyperText Markup Language
 - (there are other markup languages)
- It is written in plain text (vs. another file format, like word)

What lies beneath plain text?

- Bits!

What lies beneath plain text?

- Bits!
- There are many different ways to encode letters as bits
 - (that was the point of the reading for today)
 - (the article about the text message talked about encoding too)

The TL;dr version:

- If you open a document and it's garbled; or, crucially for our class,
- If you try to run a Python function and it just doesn't work,
- CHECK THE ENCODING!!!
 - (you might need to convert it)

The first “Discussion” posts!

- Some great projects:
 - Dress Codes: <https://pudding.cool/2019/02/dress-code-sexualization/>
 - Amazon Reviews: https://www.researchgate.net/publication/284188657_Using_Text_Mining_of_Amazon_Reviews_to_Explore_User-Defined_Product_Highlights_and_Issues
 - News Headlines: <https://pudding.cool/2018/12/brief-history/>

Now, on to web-scraping and BeautifulSoup!