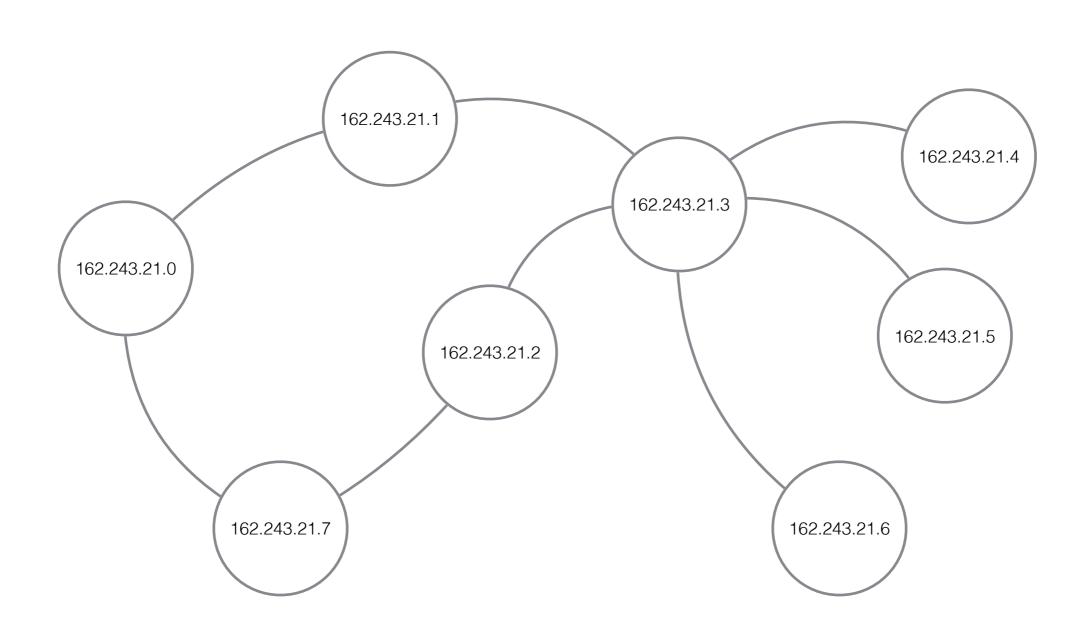
Our Web Application

How do computers talk to each other?

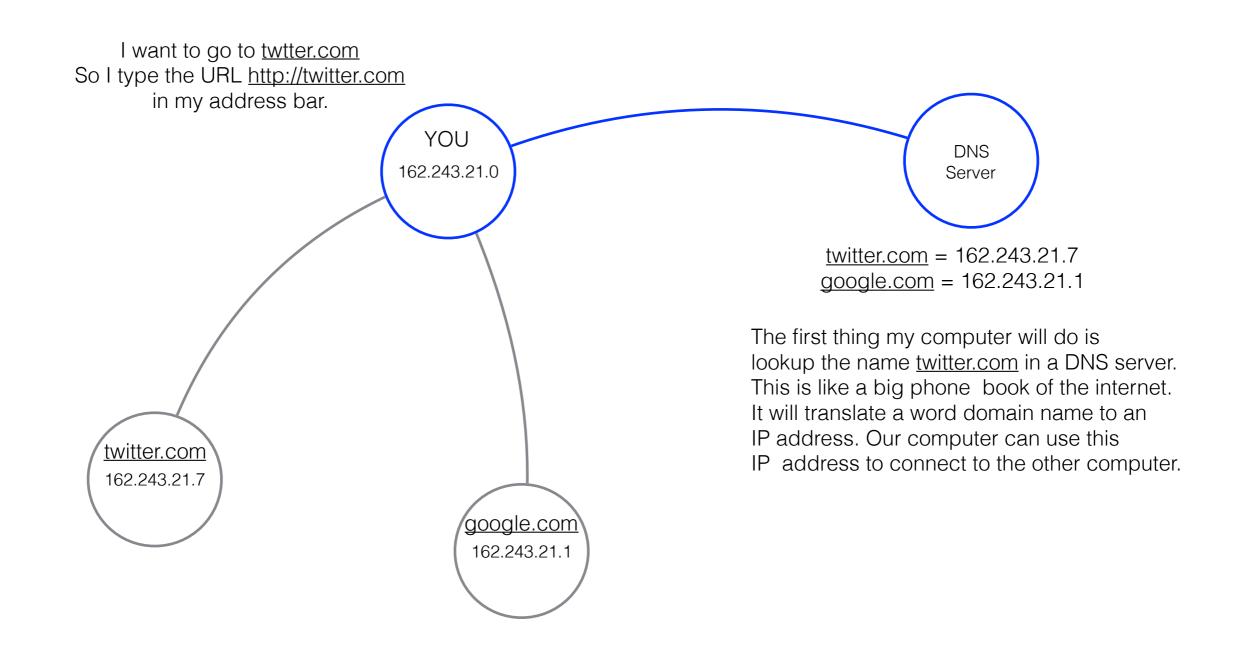


How do computers talk to each other?

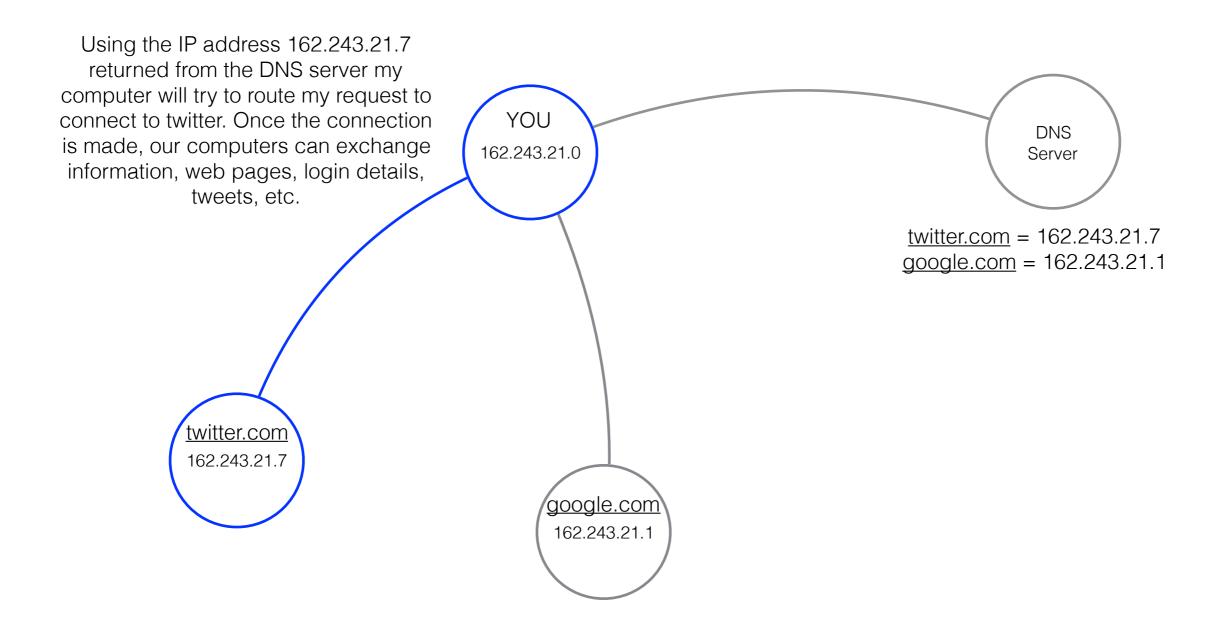


https://youtu.be/C3sr7_0FyPA

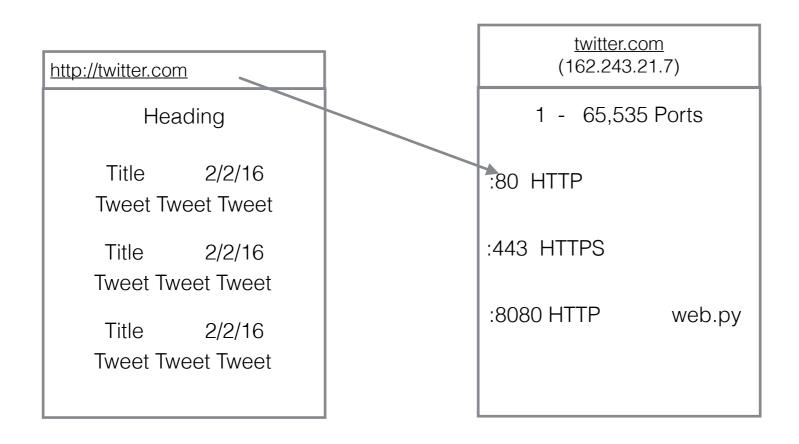
How do we find other computers?



How do we find other computers?



I found and connected to a computer, now what? How do I get a web page?



You can write programs that listen on ports not already being used.

We're going to write a web application that listens in on port 8080.

On every computer you connect to there are a set of ports that programs **listen** on for connections.

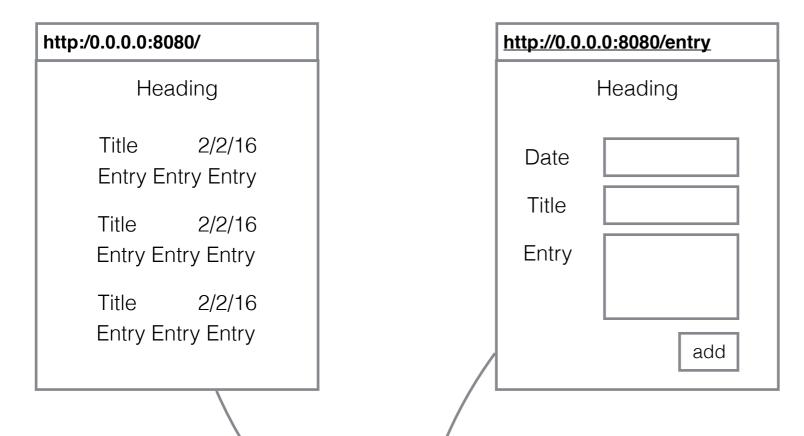
Where an IP address can be thought of as a phone number. A port can be thought of as an office extension.

Some of these ports are predefined for specific types of connections.

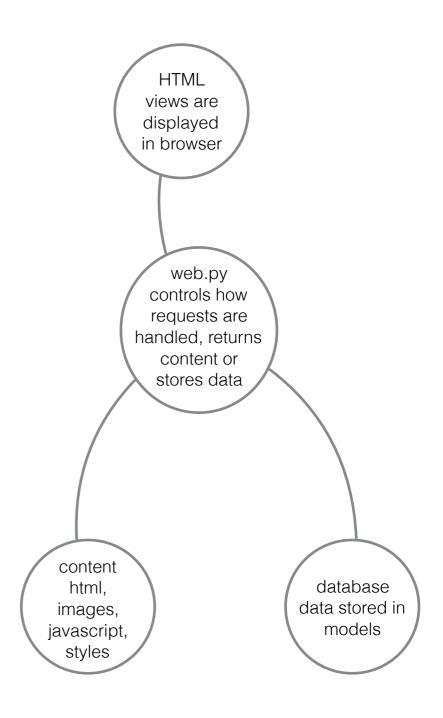
Port 80 is typically used for web pages.
Port 443 is used for secure web pages.
Port 22 is for SSH
/etc/services has a list of common ports

Once your browser connects to a port, the program or web application listening on that port will send you content. Content could be a webpage, images, code, and other things needed to show you a website.

Our Web Application



Packages We Need	Our Web Application	
	/web.py	
bottle		/models.py
sqlalchemy	/index.html /entry.html	/entry.db
	/static/styles /static/images	



The steps we'll take

- 1. Create pages to display and collect entries
 - web.py three routes / and /entry and /static, using bottle
 - create HTML files index.html and entry.html
 - add our /static content
- 2. Store entries in a database
 - create models.py
 - update web.py
 - update entry.html with a new form
- 3. Display all of our entries
 - update web.py
 - update index.html