Welcome!

Intro to Servers

Session 1

Class notes

All class slides are also available on github at https://github.com/westonplatter/gdi-boulder-servers-intro/downloads

Welcome!

Girl Develop It is here to provide affordable and accessible programs to learn software through mentorship and hands-on instruction.

Some "rules"

- We are here for you!
- Every question is important
- Help each other
- Have fun

Thanks to our sponsor

About your instructor

Weston Platter

- Found software through friends
- Work
  - Co-Founder @ Venture IO
  - GridKick - databases on demand
- Twitter: @westonplatter
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GridKick
databases on demand

Why are you teaching?

College friends showed me how to dream with software

I want to inspire the
next generation of software engineers

Teaching Assistants

Jenn

Phoneix

Welcome!

Tell us about yourself.

- Who are you?
- What do you hope to get out of the class?
- Favorite chartoon character?

4 sessions

Session 1 - What are servers? What is the internet?

Session 2 - How to interact with servers

Session 3 - How to setup a website

Session 4 - How to use Vagrant

Real Question

What am I going to understand?

We want you to feel comfortable:

- Talking about servers
- Using SSH to interact with servers
- Setting up real HTML and Javascript websites
- Dreaming about servers

What is a server?

Server rack at Google datacenter

Server Rack

Server

Server is an "industrian" version of a Desktop

More practically

a server:

- is computer in a datacenter
- has an IP address
- can be virtualized

What do severs do?

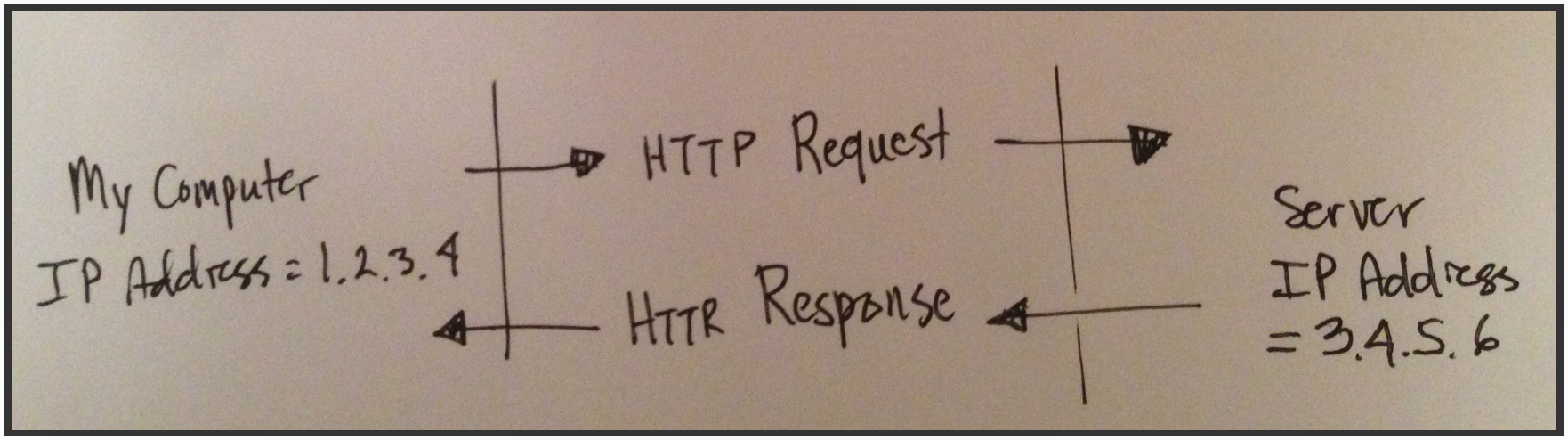
First, we need to ask ...

How does the internet work?

How does the internet work?

Send and Reveive information over HTTP

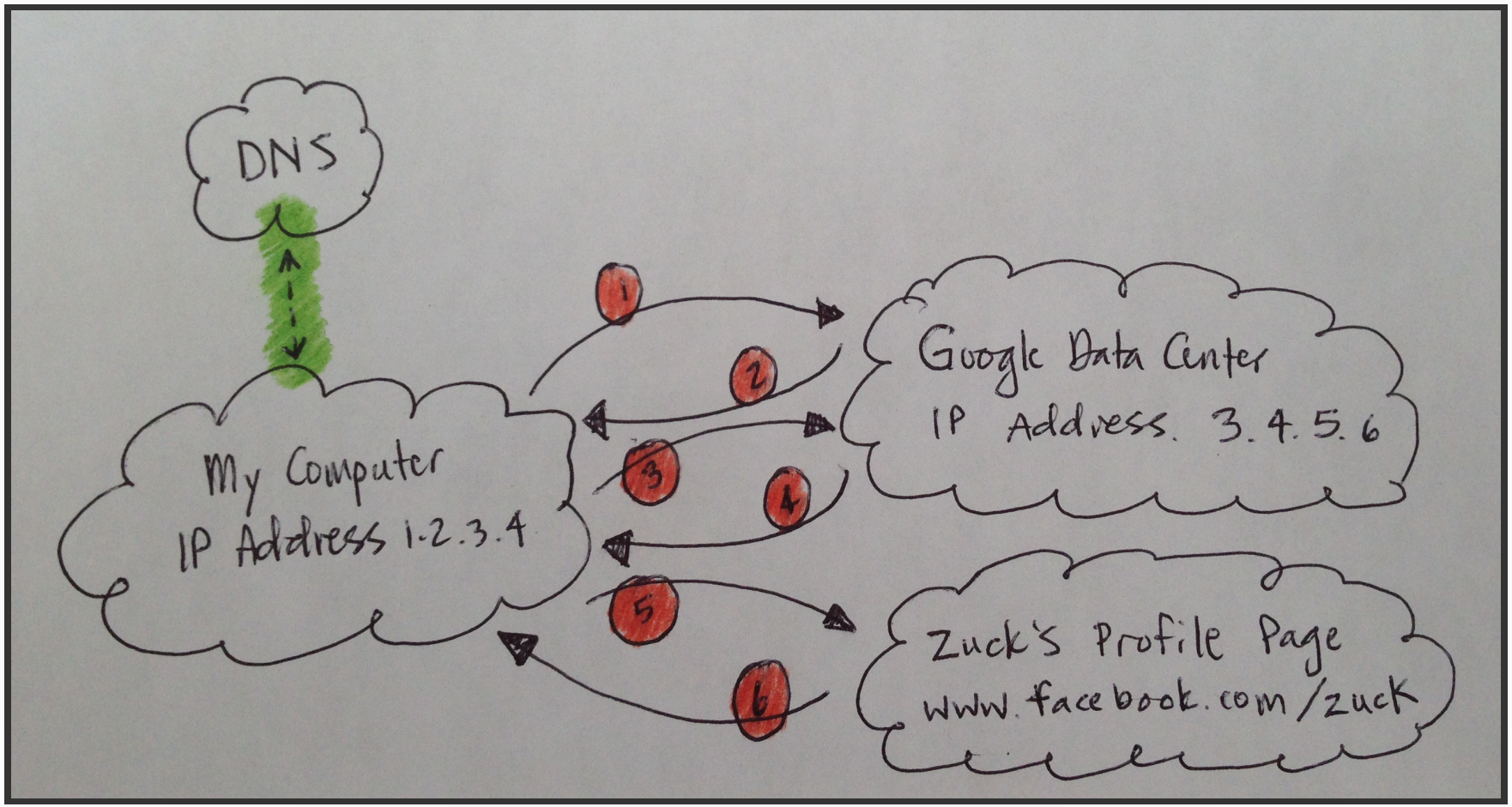
HTTP = Hyper Text Transfer Protocol



But much bigger

search on google for "mark zukerberg

click on Mark's facebook page



Opeations in order

1. HTTP Request. google.com
2. HTTP Response. google.com
3. HTTP Request. Search for "Zukerberg profile page"
4. HTTP Response. Search results. Click on 1st result
5. HTTP Request. facebook.com/zuck
6. HTTP Response. Mark's profile page

DNS - domain name server

translates URLs (facebook.com) into IP addresses (1.2.3.4)

What do servers do?

Servers and programs running on them
receive HTTP requests and
send back HTTP responses