Game Project

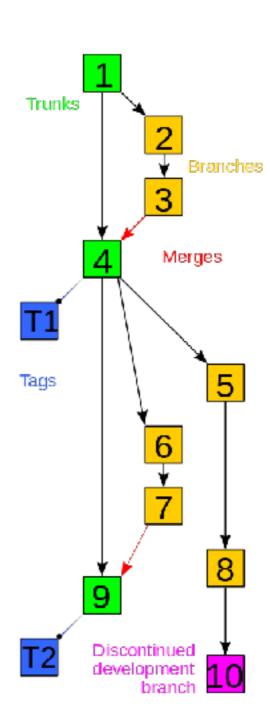
Week 2

Agenda

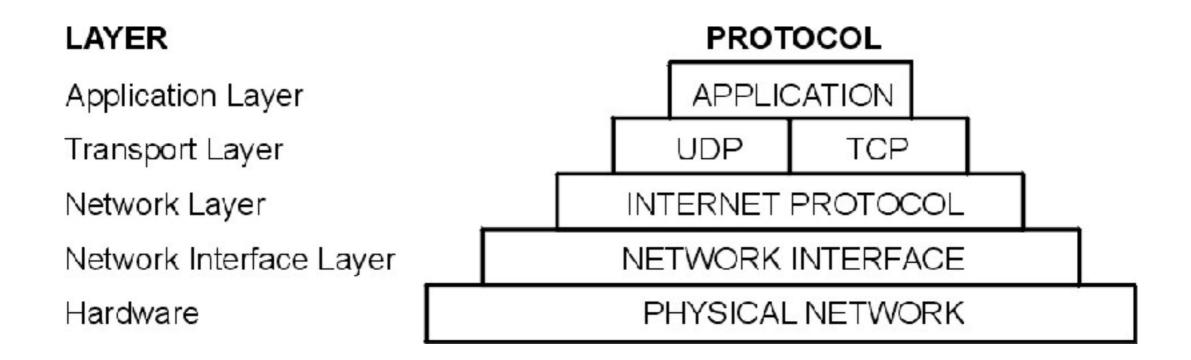
- HTTP basics
- API basics
- HTML basics
- Build crawler in Python
- Advanced topics

Version Control

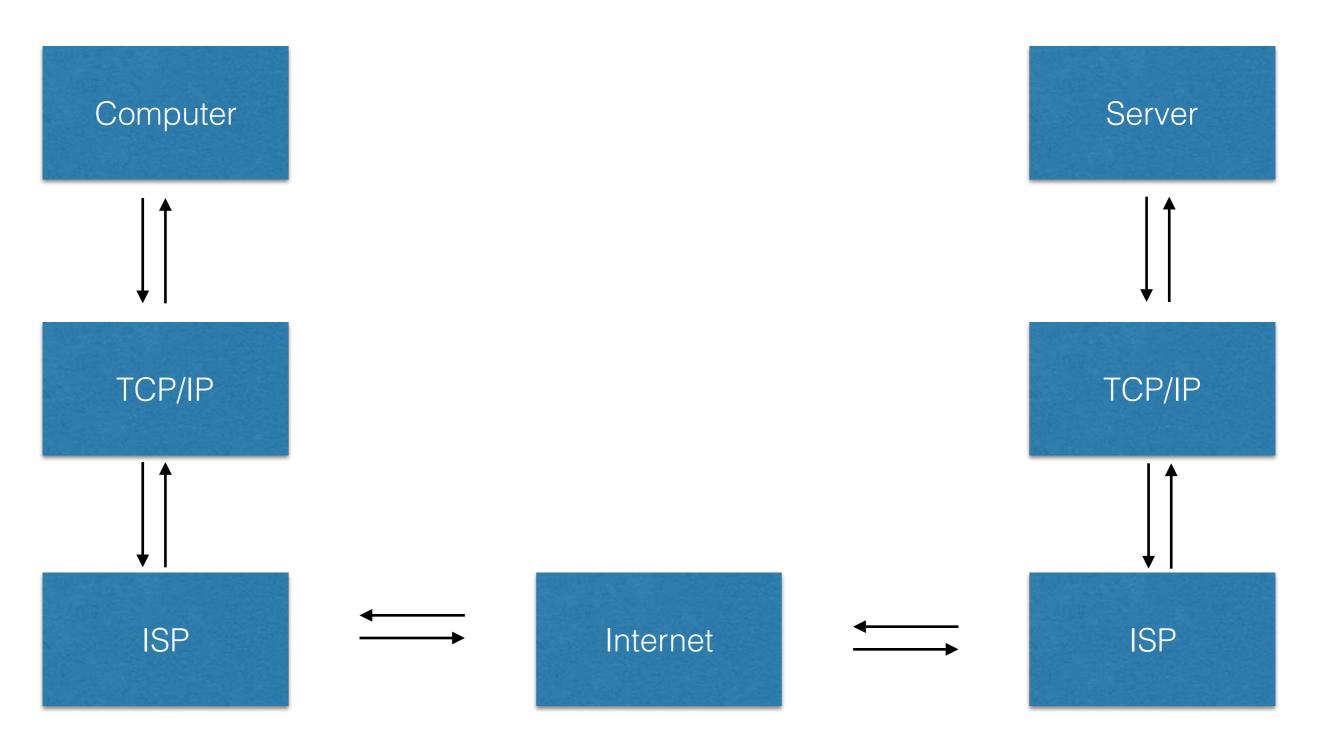
- Best practice
- Lab



Hypertext Transfer Protocol (Secure)



https://en.wikipedia.org/wiki/Hypertext_Transfer_Protocol



- Methods:
 - GET requests a representation of the specified resource.
 - POST requests that the server accept the entity enclosed in the request
 - PUT
 - DELETE
 - etc.

```
▼ Response Headers
   alt-svc: quic=":443"; ma=2592000; v="36,35,34,33,32"
   cache-control: private, max-age=0
   content-encoding: gzip
   content-type: text/html; charset=UTF-8
   date: Fri, 23 Sep 2016 22:53:15 GMT
   expires: -1
   server: gws
   set-cookje: DV=; expires=Mon, 01-Jan-1990 00:00:00 GMT; path=/; domain=www.google.com
   set-cookje: DV=; expires=Mon, 01-Jan-1990 00:00:00 GMT; path=/; domain=.www.google.com
   set-cookje: DV=; expires=Mon, 01-Jan-1990 00:00:00 GMT; path=/; domain=google.com
   set-cookie: DV=; expires=Mon, 01-Jan-1990 00:00:00 GMT; path=/; domain=.google.com
   status: 200
   strict-transport-security: max-age=86400
   x-frame-options: SAMEORIGIN
   x-xss-protection: 1; mode=block
▼ Request Headers
   :authority: www.google.com
   :method: GET
   :path: /
   :scheme: https
   accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
   accept-encoding: gzip, deflate, sdch, br
   accept-language: en-US, en; q=0.8
   cache-control: max-age=0
   cookje: NID=87=tjwyEVryOpOys9FVnzDatnDSrwoCtKifPf9wuw-m3DG4gTTJwV322vv_h2yhmrPHVGF8f8G7sdx_CEKaSOwlvse3g5dLlRneMLaY-TXS9S0j7G9SNHD
   fsmgnkojHBAvZdWDrUhoiaqjmKA; DV=EjUs-kXcKNsaLEWZLaMIXfTLE4GyrgI; OGPC=5062209-5:
   referer: https://www.google.com/
   upgrade-insecure-requests: 1
   user-agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_0) AppteWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.116 Safari/53
   7.36
```

API Basics

- Application Programming Interface
- Request structure:
 - method
 - URL
 - endpoints (optional)
 - auth (optional)

API Basics

- Understand each API
 - auth?
 - quota
 - parameters
- Google YouTube API
 - Get video info
 - Get video stats