

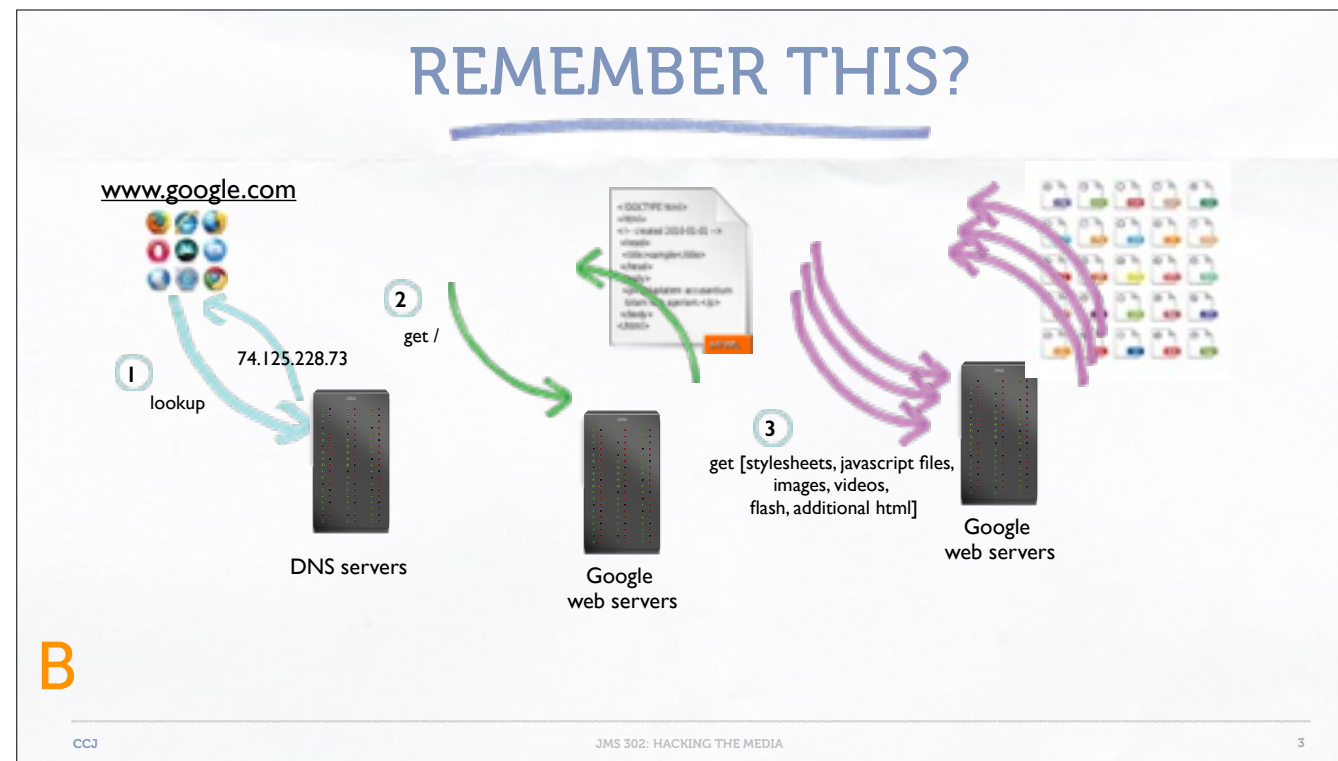
JMS 302: HACKING THE MEDIA

CLASS 21: 10/30/2014

TODAY'S TASKS



- Review basic Sinatra app
- RPS on the web



Now, we're going to dig into what happens on the web server. Actually, multiple servers.

SINATRA: HELLO, WORLD

```
1 require 'sinatra'      #! thing
2
3 get '/' do             # route (method), we'll use get or post mostly.
4   "Hello, world!"      # look at your high grade here
5 end
6
7 get '/me/:cname' do    # named parameter (you'll look at query string params later)
8   @name = params[:cname] # @ - instance variable (you read in class)
9   "erb:me"             # params look
10 end
11                         # erb tells sinatra to use ERB to render template
12                         # me -- erb file, name of template
13 __END__
14
15 @@me                   # @@ - class variable
16                         # me - name of template (no erb)
17 <!DOCTYPE html>
18 <html>
19   <head><title><%= @name %></title></head>
20   <body>
21     <h1>Hello, <%= @name %></h1>
22   </body>
23 </html>                 #! %> - sinatra Ruby code, %> - tells ERB to display
24
25 @@me_page
```

gem install

Each sinatra app we wish to publish will get its own repository. We'll come to that.

RPS

```
8 #puts beats
9 #puts "keys = #{beats.keys}"
10
11 # get a random choice for the computer
12 computer = beats.keys[rand(beats.keys.size)]
13 # puts "Computer rolls a #{ beats.keys[computer] }"
14
15 # give the user instructions
16 puts "
17 Welcome to Rock, Paper, Scissors!
18 You will pick Rock, Paper or Scissors.
19 The computer will randomly pick one of those choices.
20 Rock beats Scissors. Scissors beat Paper, Paper beats Rock.
21 Enter your choice."
22
23 player = gets.chomp
24
25 # make sure the player enters a valid choice
26 # TODO: add some methods so we can easily ask the user to enter again
27 # (and let the game continue indefinitely)
28 if !beats.keys.include?(player.capitalize)
29   puts "Please choose a correct choice."
30   exit
31 end
32
33 # tied
34 if player.capitalize == computer
35   puts "You tied the computer. Try again."
```

SEE GITHUB

NOTE THE CORE LOGIC

https://github.com/timreganporter/JMS-302/blob/master/exercises/class_19/rps.rb

SINATRA: RPS (URL)

- Try to make RPS in a web app.
- For this first version, we'll just use the URL (no form, no instructions). Users will append their choice to /throw and you will tell the user if he/she won, lost or tied.

SINATRA: RPS (FORM)

- Now, let' do it as a form.

MORE INFO ON SINATRA

- <http://code.tutsplus.com/tutorials/singing-with-sinatra--net-18965>
- <http://www.sinatrarb.com/>
- Jump Start Sinatra by Darren Jones
- Sinatra: Up and Running by Harris & Haase

The books (especially the last one) are a bit dated, but you shouldn't have any problems. If you want a slow build, they are good options. The books aren't free, however.