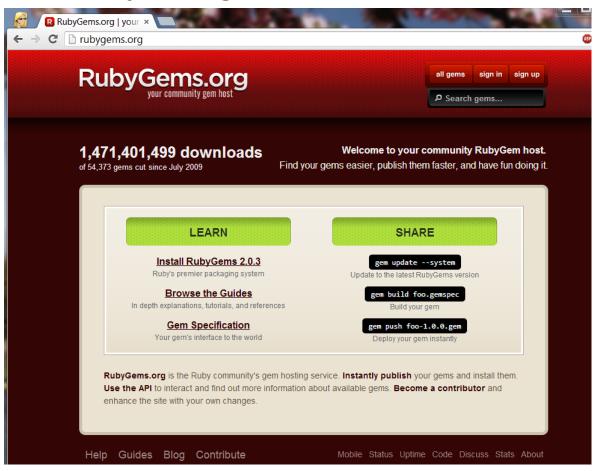
HTTParty

Rubygems

Many plugins/additions to Ruby available



Rubygems

```
Command Prompt
C:\>gem_help
RubyGems is a sophisticated package manager for Ruby. This is a
basic help message containing pointers to more information.
  Usage:
    gem -h/--help
    gem -v/--version
    gem command [arguments...] [options...]
  Examples:
    gem install rake
    gem list --local
    gem build package.gemspec
    gem help install
  Further help:
                                 list all 'gem' commands
    gem help commands
    gem help examples
                                 show some examples of usage
                                 show information about platforms
    gem help platforms
    gem help (COMMAND)
                                 show help on COMMAND
                                   (e.g. 'gem help install')
                                 present a web page at
    gem server
                                 http://localhost:8808/
                                 with info about installed gems
  Further information:
    http://rubygems.rubyforge.org
lC:\>
```

Installing HTTParty

```
C:\>gem list httparty
*** LOCAL GEMS ***
httparty (0.10.0)
C:\>gem uninstall httparty
Remove executables:
        httpartv
in addition to the gem?[Yn] Y
Removing httparty
Successfully uninstalled httparty-0.10.0
C:\>gem install httparty
Fetching: multi_xml-0.5.3.gem (100%)
Fetching: httparty-0.10.2.gem (100%)
When you HTTParty, you must party hard!
Successfully installed multi_xml-0.5.3
Successfully installed httparty-0.10.2
2 gems installed
Installing ri documentation for multi_xml-0.5.3...
Installing ri documentation for httparty-0.10.2...
Installing RDoc documentation for multi_xml-0.5.3...
Installing RDoc documentation for httparty-0.10.2...
```

More details on the gem command

Use -d option to get more details

```
C:\>gem list http -d

*** LOCAL GEMS ***

httparty (0.10.2)
    Authors: John Nunemaker, Sandro Turriate
    Homepage: http://jnunemaker.github.com/httparty
    Installed at: C:/RailsInstaller/Ruby1.9.3/lib/ruby/gems/1.9.1

Makes http fun! Also, makes consuming restful web services dead easy.
```

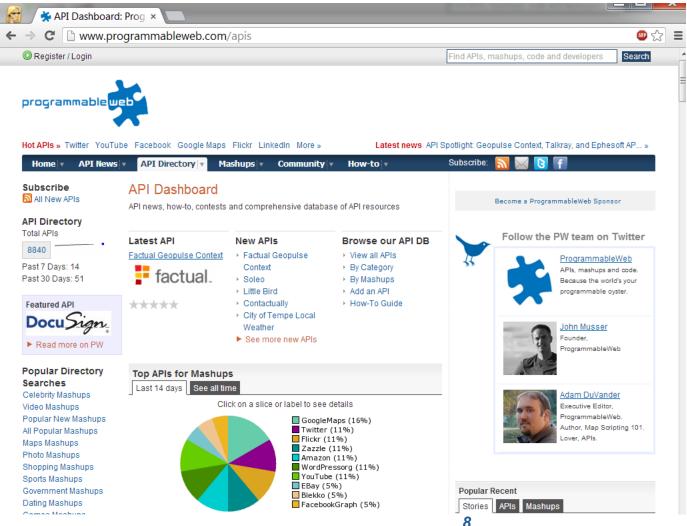
HTTParty gem

- Restful web services client
- Provides support for
 - Basic http authentication
 - Default request query parameters
 - Automatic parsing of JSON and XML into ruby hashes based on response content-type

What are Restful Web Services?

- We'll be taking a closer look at REST later in the semester, but for now...
- Simple web services implemented using HTTP (and principles of REST) that
 - 1. Have a base URI
 - Support a data exchange format like XML or JSON (and possibly others)
 - 3. Support a set of HTTP operations

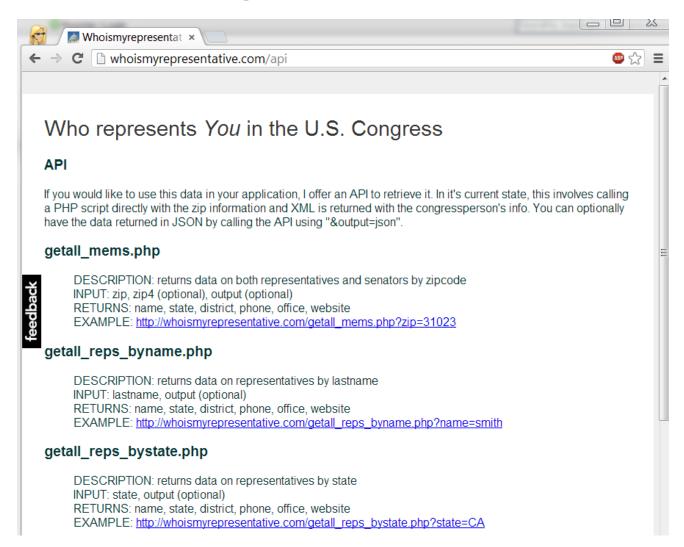
Lots of restful APIs out there...



Httparty usage

- include HTTParty module
 - And you are good to go!
- Can specify
 - -base uri for your requests
 - default_params if same across multiple requests (API developer key for example)
 - format if you know which format the data is in
- DRY principle don't repeat yourself!

Who is my representative?



HTTParty example

```
require 'httparty'
                                                                       Get request
class Representative
  include HTTParty
 base uri 'whoismyrepresentative.com'
 default params output: "json"
 format : json
 def self.get senators by state(state)
   qet("/qetall sens bystate.php", query: {state: state})
                                                                   state request
  end
 def self.get representatives by state(state)
                                                                       parameter
    get("/getall reps bystate.php", query: {state: state})
 end
end
p Representative.get senators by state('MD')
# => #<HTTParty::Response:0x155e908 @parsed response={"results"=>[{"name"=>"Benjamin
Cardin", "party"...
p Representative.get representatives by state('MD')["results"]
# => [{"name"=>"Elijah Cummings", "party"=>"D", "state"=>"MD", "district"=>"7" ...
```