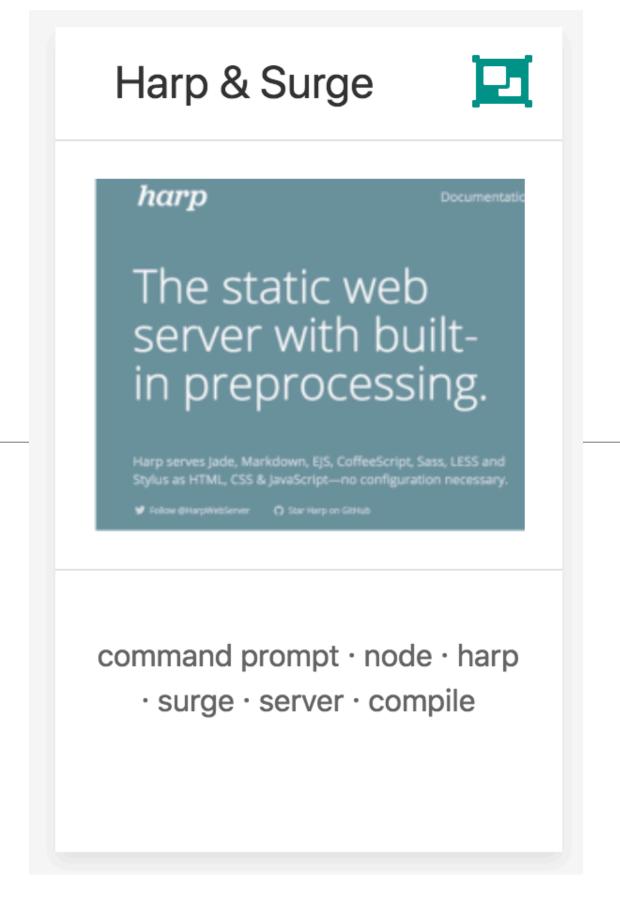
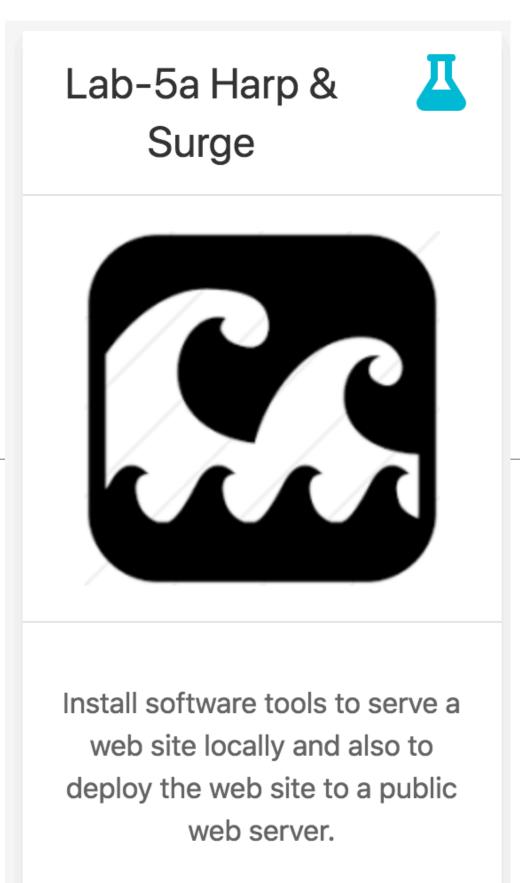
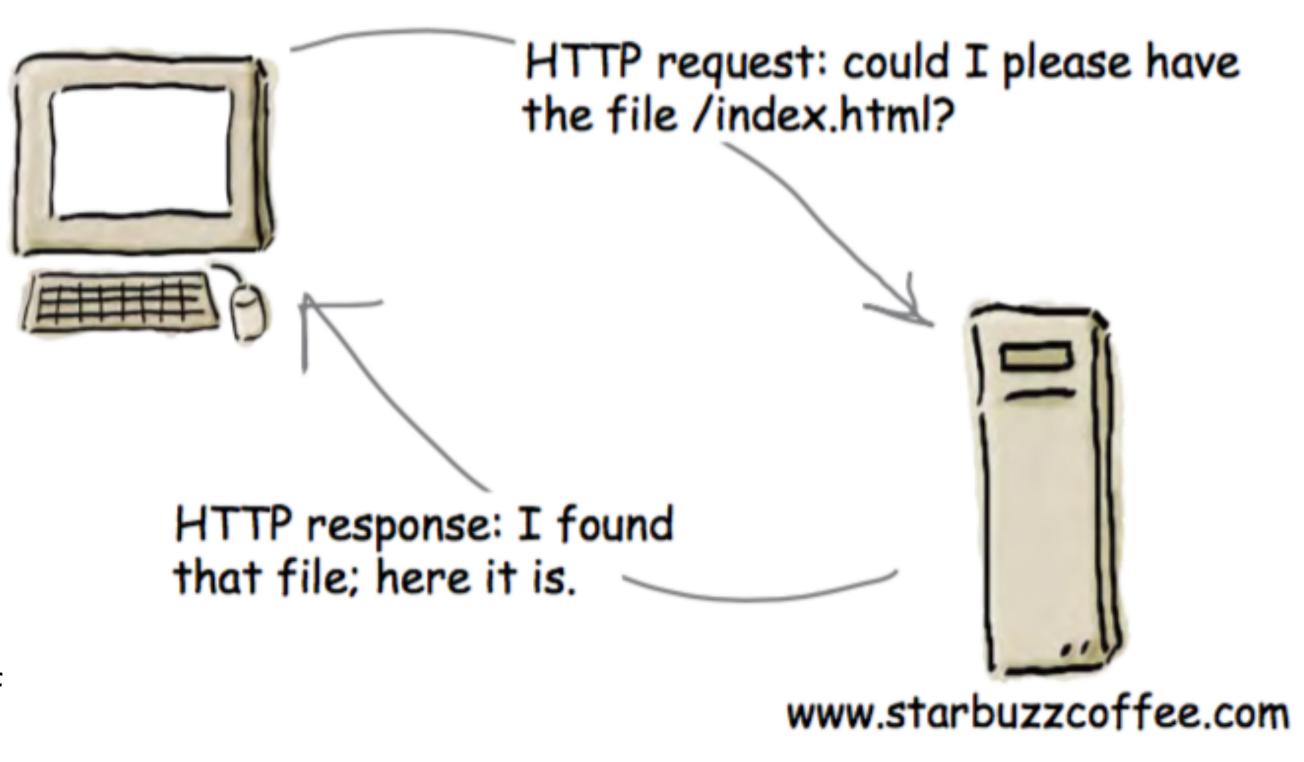
Harp.js & Surge



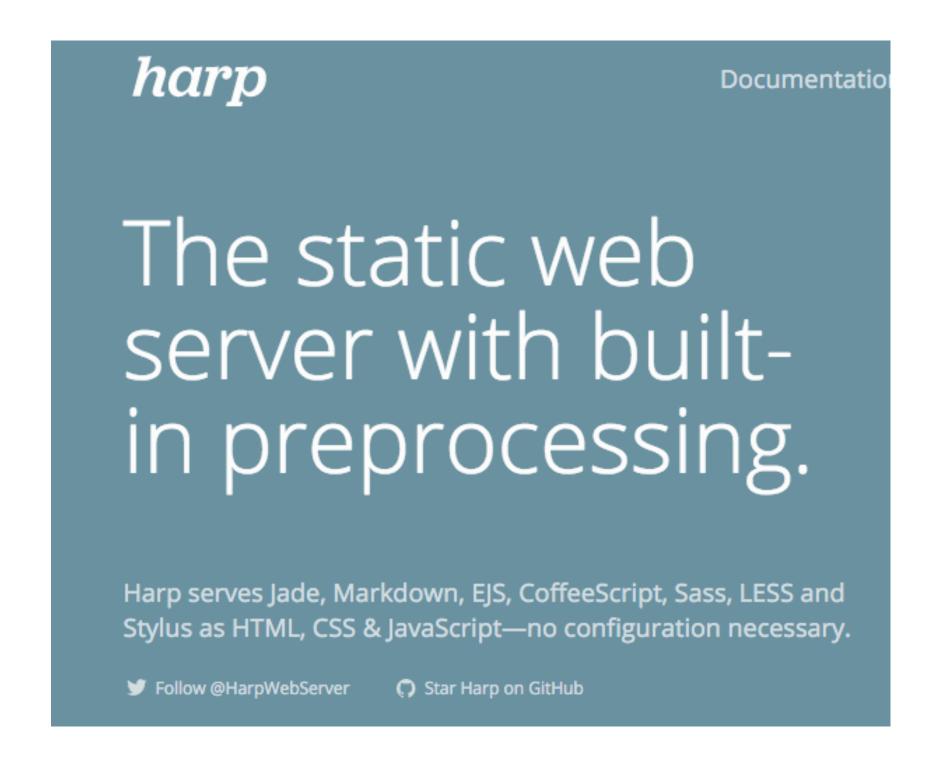


The Role of a Web Server

- A Web Server is a program which is 'listening' on a particular 'Port' for HTTP Requests
- When a requests is received, the server determines if the request can be 'served'
- If it can, then the server packages up a response and sends it
- Requests are generated by browsers (usually), either by:
 - The user entering a url in the address bar of the browser
 - Or the user clicking on a link on a page



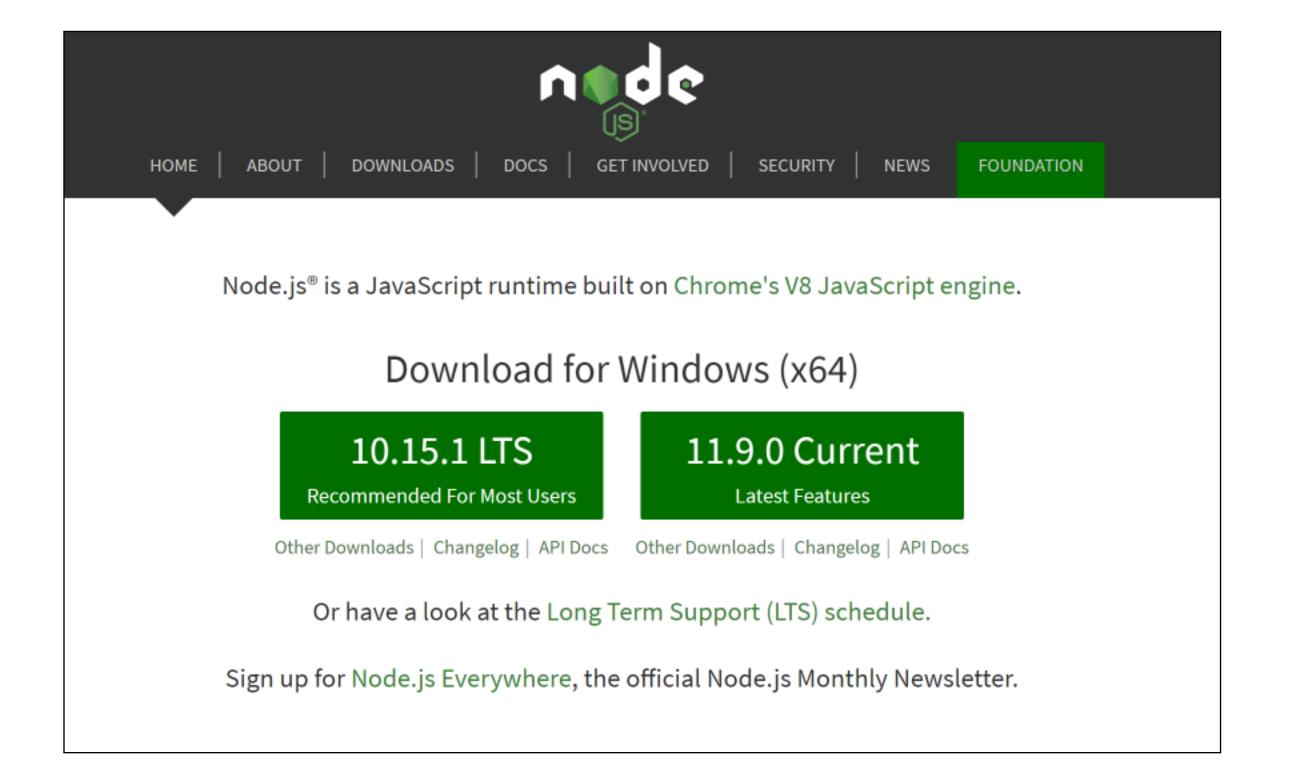
Harp.js

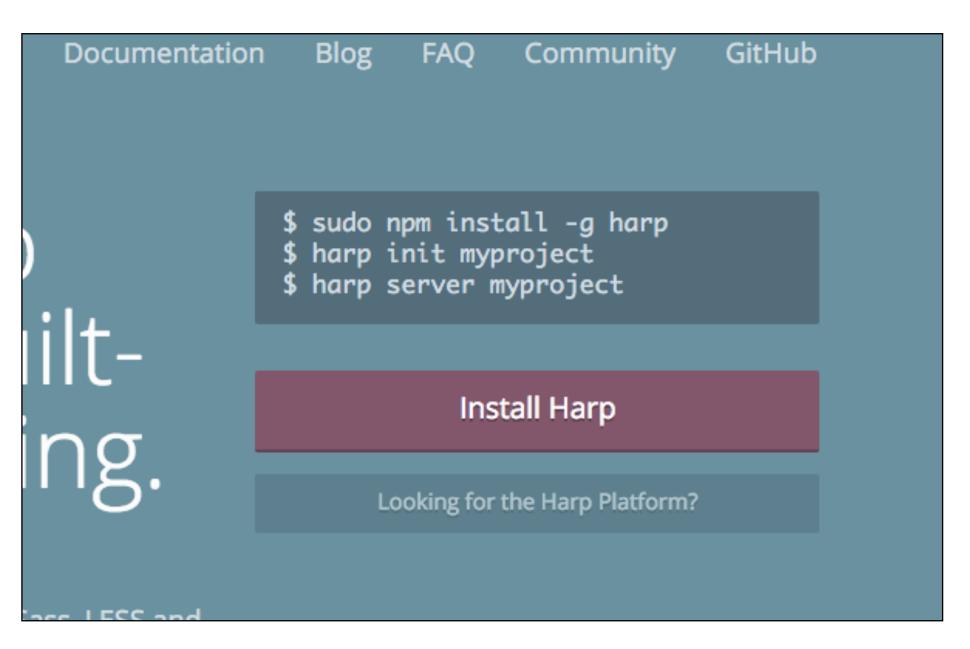


- For professional web site development, you need a local web server. Otherwise, the site you develop will not be sufficiently tested.
- Harp.js is a web server you can run on your own computer.
- It behaves exactly like a web server used by a hosting company
- You can use it to simulate how your page will behave when it is eventually deployed to a server
- Additionally the web server can provide a range of additional features you can use in your web development

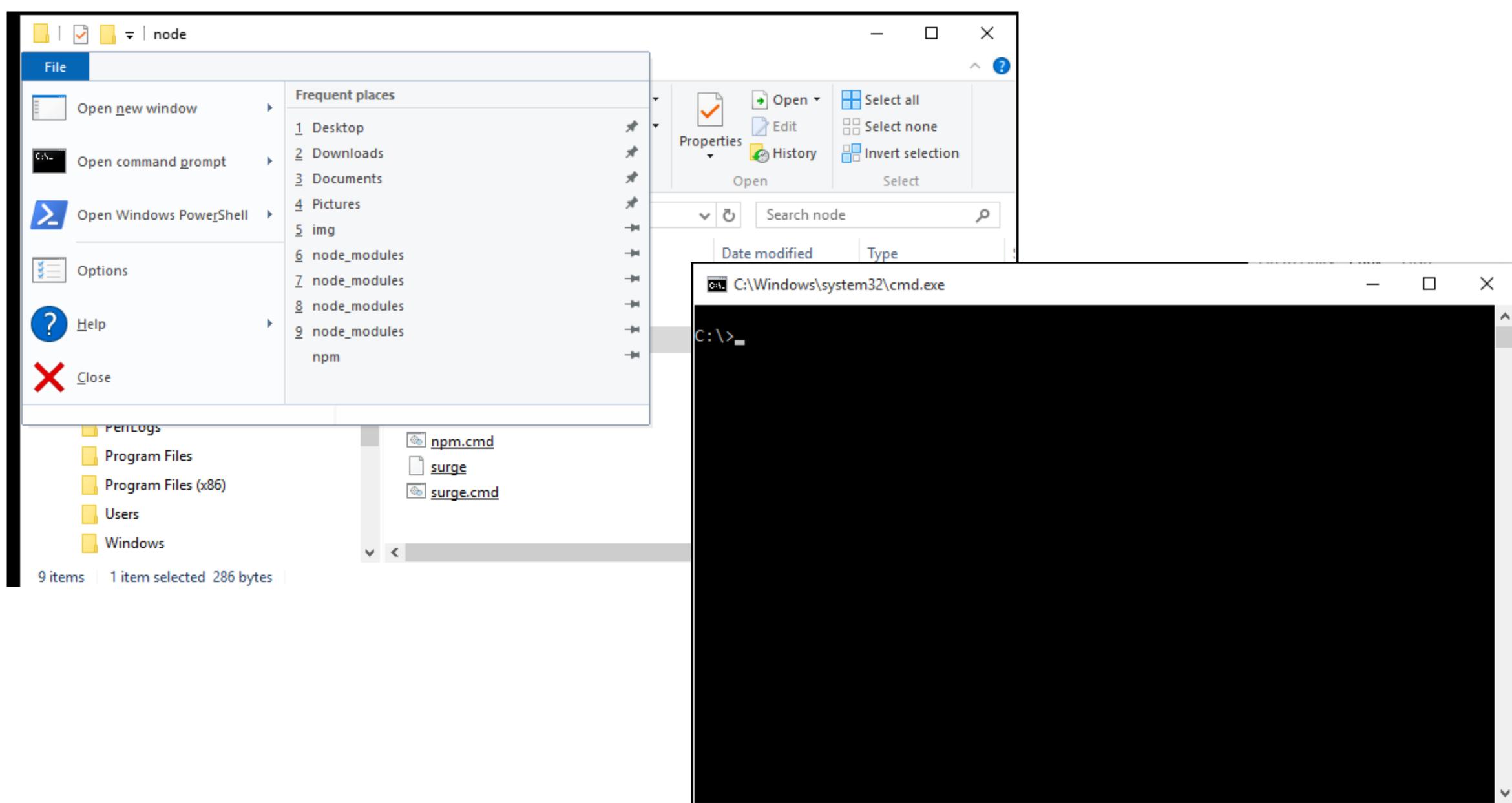
Installing Harp

- On your own machine:
 - First install Node.js
 - Then Install Harp





Run a Command Prompt



Create a test Project

```
C:\Windows\system32\cmd.exe
C:\>\node\init
C:\>
C:\>
Downloading boilerplate: https://github.com/harp-boilerplates/default
Initialized project at C:\demo
C:\>
```

harp init demo

Launch the Web Server for this demo project

```
C:\>harp init demo
Downloading boilerplate: https://github.com/harp-boilerplates/default
Initialized project at C:\demo

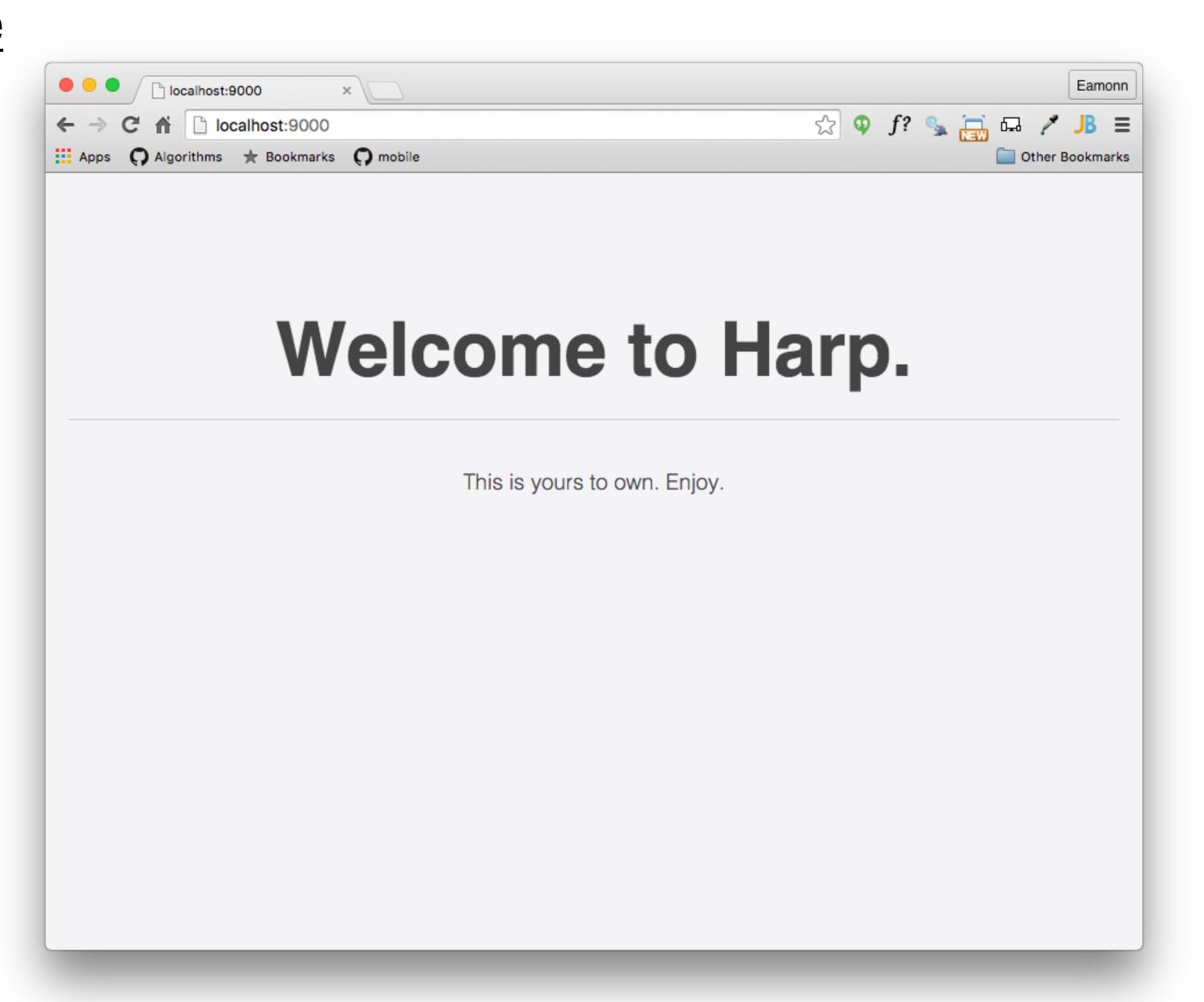
C:\>cd demo

C:\demo>harp server
-------
Harp v0.19.0 - Chloi Inc. 2012-2015
Your server is listening at http://localhost:9000/
Press Ctl+C to stop the server
```

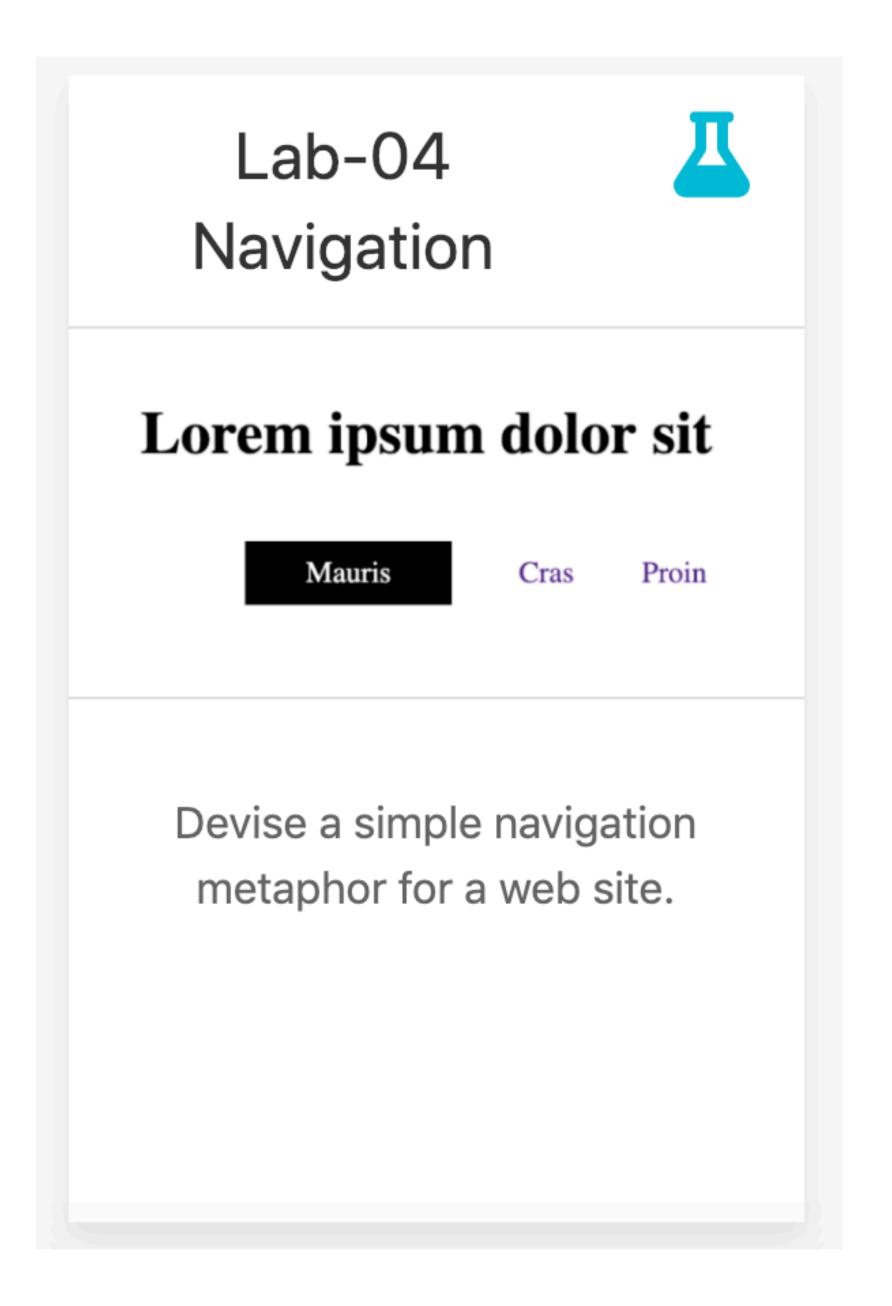
cd demo

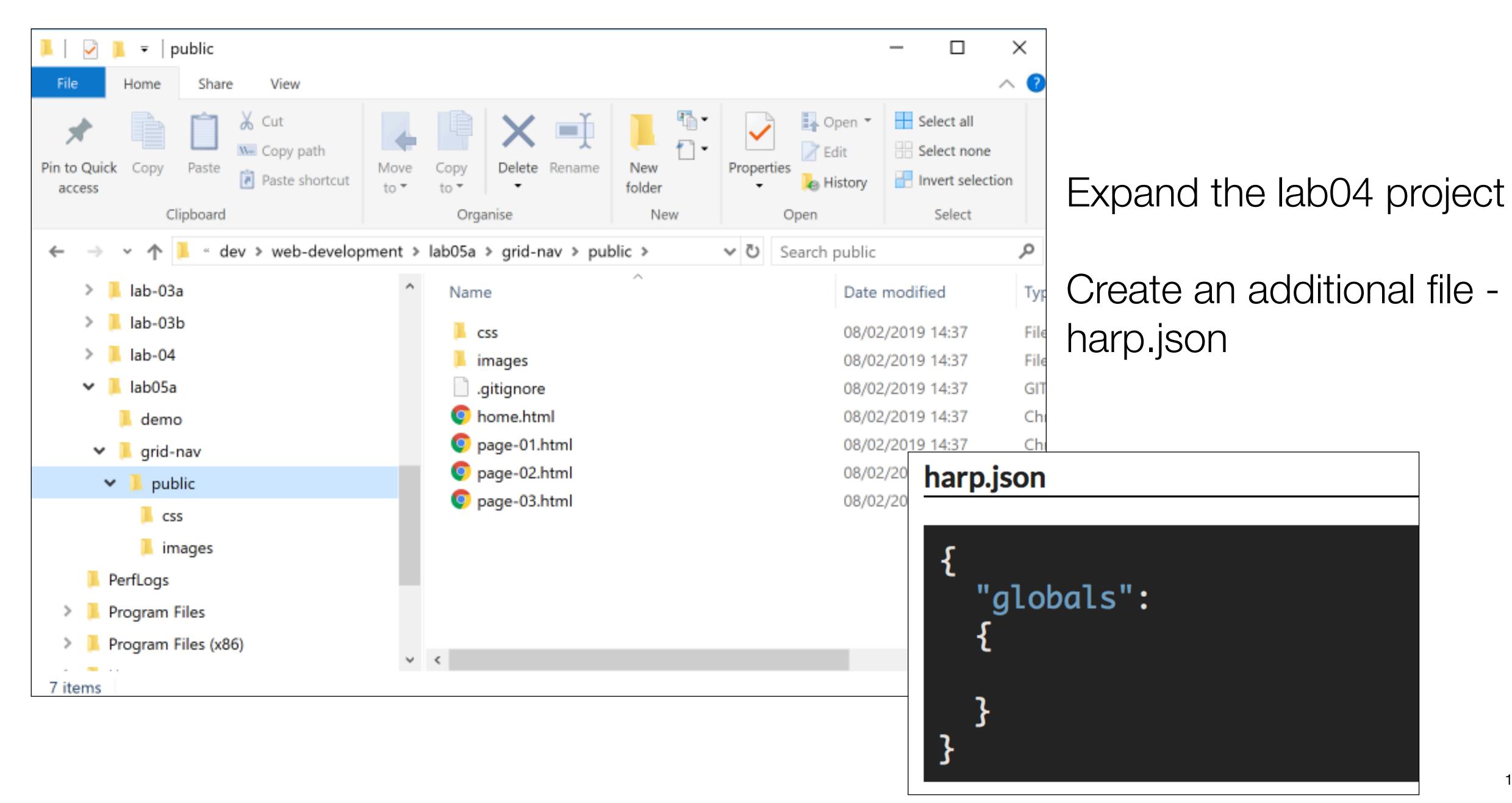
harp server

Visit the Site



Serve the site from Lab-04 Navigation





Run the harp server again

- harp server

Browse to localhost:9000

The site is "served" here and can be browsed as expected



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C:\dev\web-development\lab0-5a\grid-nav>harp server
Your server is listening at http://localhost:9000/
Press Ctl+C to stop the server

Deployment - Surge.sh



Pricing Tour Help Blog @surge_sh

Static web publishing for Front-End Developers

Simple, single-command web publishing. Publish HTML, css, and Js for free, without leaving the command line.

3,664,196 40.18 TB 493,529

deployments

published

projects

```
$ npm install --global surge
# In your project directory, just run...
$ surge
```

One Command!

- surge
- Will create an account on first run (remember password) and deploy all files
- Subsequently, will just update site changes.
- Also generates a Domain Name

```
C:\Windows\system32\cmd.exe
`CTerminate batch job (Y/N)? y
:\demo>harp server
Harp v0.19.0 - Chloi Inc. 2012-2015
Your server is listening at http://localhost:9000/
Press Ctl+C to stop the server
`CTerminate batch job (Y/N)? y
:\demo>surge
             email: edeleastar@gmail.com
             token:
      project path: C:\demo\
              size: 34 files, 2.3 MB
            domain: ceaseless-anger.surge.sh
            upload: [==========] 100%, eta: 0.0s
                                         14% /assets/images/iot/data/data-1.
  propagate on CDN: [===
                                          28% /assets/images/iot/devices/devi
  propagate on CDN: [=====
                                          47% /assets/images/iot/devices/devi
  propagate on CDN: [======
                                          57% /assets/images/iot/networks/net
  propagate on CDN: [=======
                                          70% /assets/images/iot/programming/
  propagate on CDN: [========
                                          85% /assets/images/iot/project/proj
  propagate on CDN: [==========
  propagate on CDN: [==========] 100%
              plan: Free
             users: edeleastar@gmail.com
        IP address: 192.241.214.148
   Success! Project is published and running at ceaseless-anger.surge.sh
C:\demo>_
```

Dommain Name

- You can change part of the domain name before publishing
- Must end in surge.sh (for free service)

Pricing

Surge is free to use.

Upgrade your account to bolster it with server-side features.

Surge

For publishing any folder easily

Free

Unlimited publishing
Custom domain
Basic SSL

Get started for free

Surge Professional

For unlimited production-ready projects

only \$30_{/MO}.

Unlimited projects
Unlimited publishing
Custom domain
Custom SSL
Force http to https
Cross-Origin Resource Sharing
Custom redirects
Password protection