

Harp.js & Surge

Harp & Surge



command prompt · node · harp
· surge · server · compile

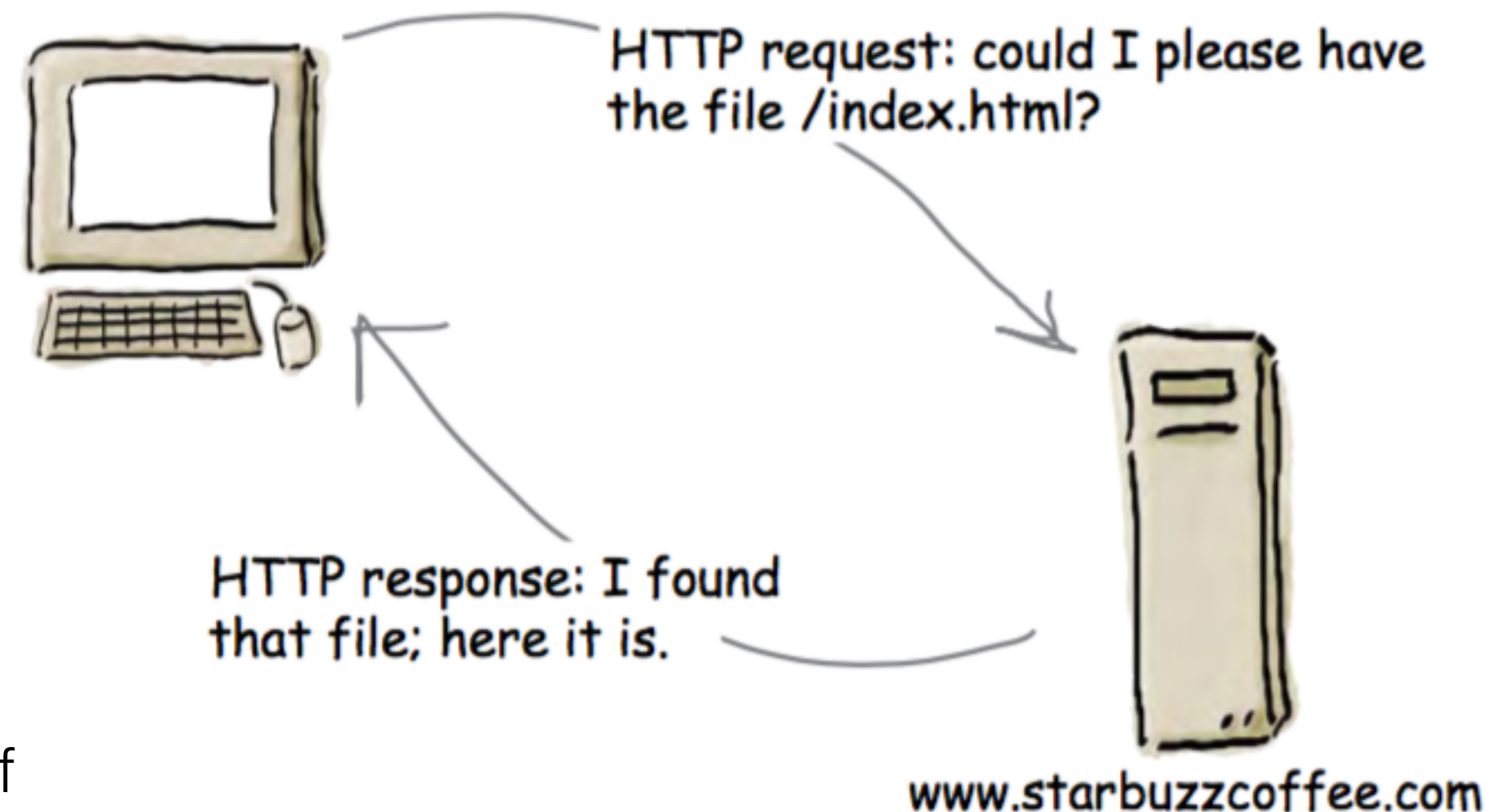
Lab-5a Harp & Surge



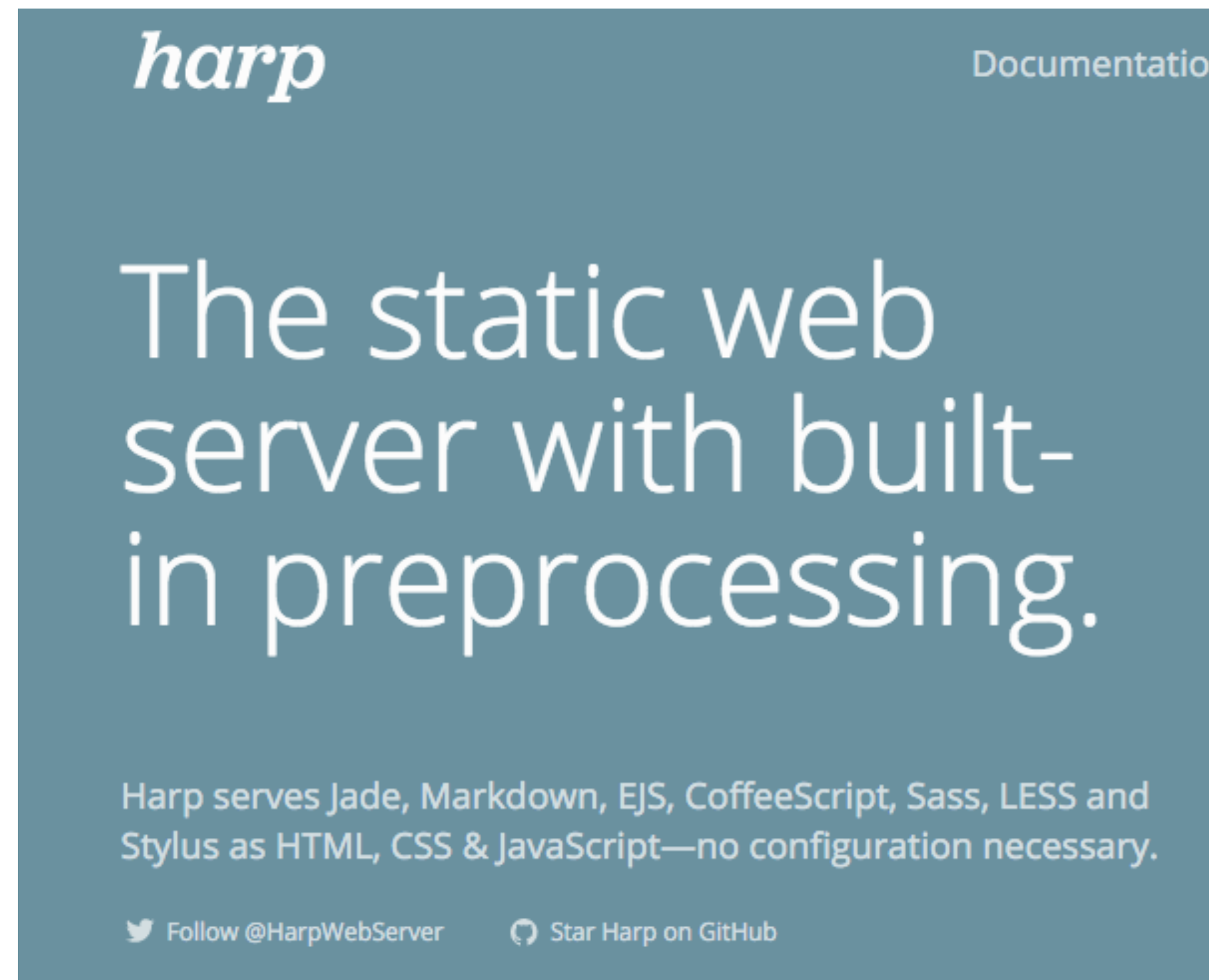
Install software tools to serve a
web site locally and also to
deploy the web site to a public
web server.

The Role of a Web Server

- A Web Server is a program which is 'listening' on a particular 'Port' for HTTP Requests
- When a request 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

Node.js® is a JavaScript runtime built on [Chrome's V8 JavaScript engine](#).

New security releases now available for all release lines

Download for macOS (x64)

12.16.0 LTS	13.8.0 Current
Recommended For Most Users	Latest Features

[Other Downloads](#) | [Changelog](#) | [API Docs](#) [Other Downloads](#) | [Changelog](#) | [API Docs](#)

Or have a look at the [Long Term Support \(LTS\) schedule](#).

Sign up for [Node.js Everywhere](#), the official Node.js Monthly Newsletter.

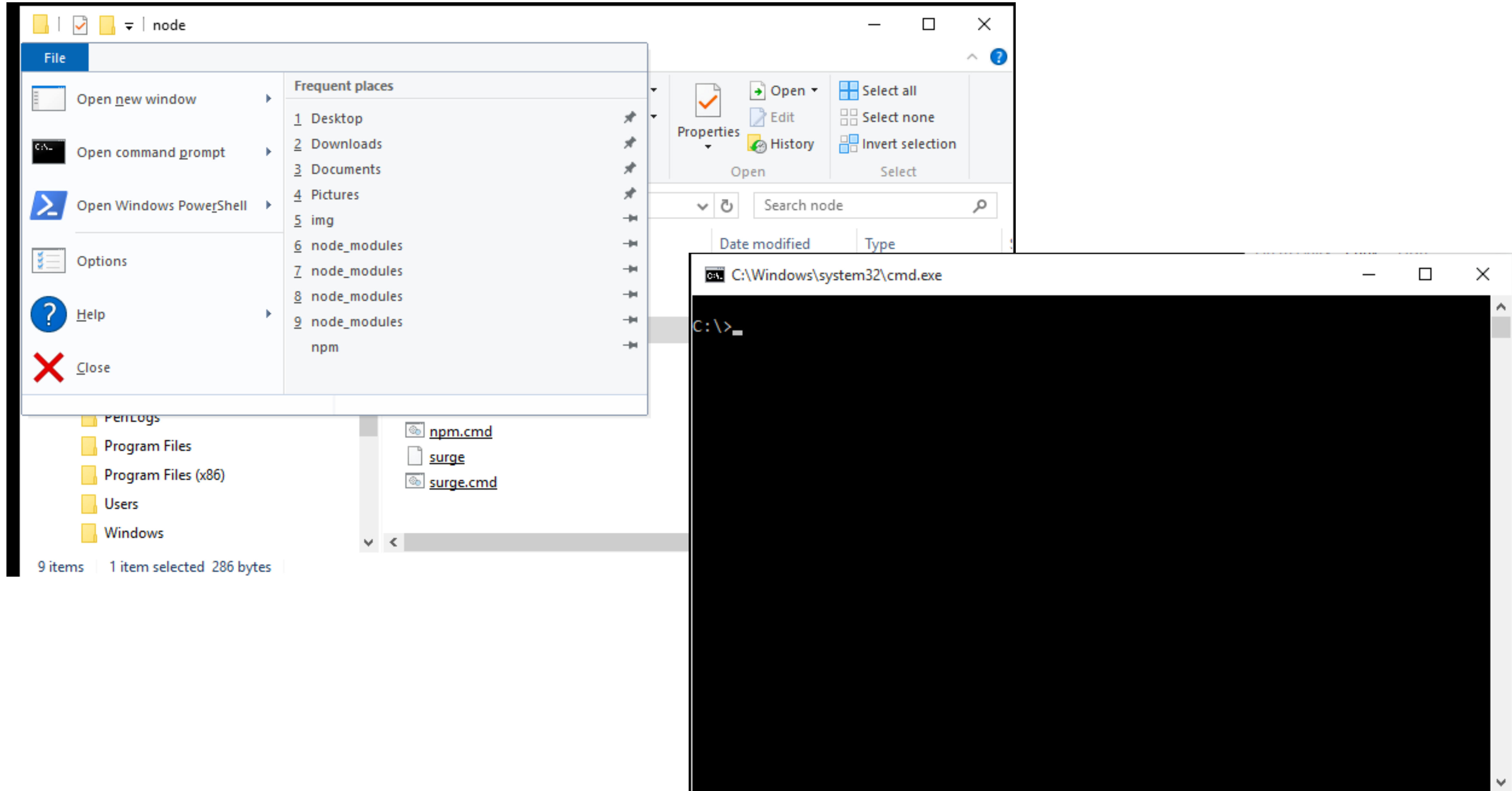
[Documentation](#) [Blog](#) [FAQ](#) [Community](#) [GitHub](#)

```
$ sudo npm install -g harp
$ harp init myproject
$ harp server myproject
```

Install Harp

[Looking for the Harp Platform?](#)

Run a Command Prompt



Creating & Serving a demo project

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

C:\>cd demo

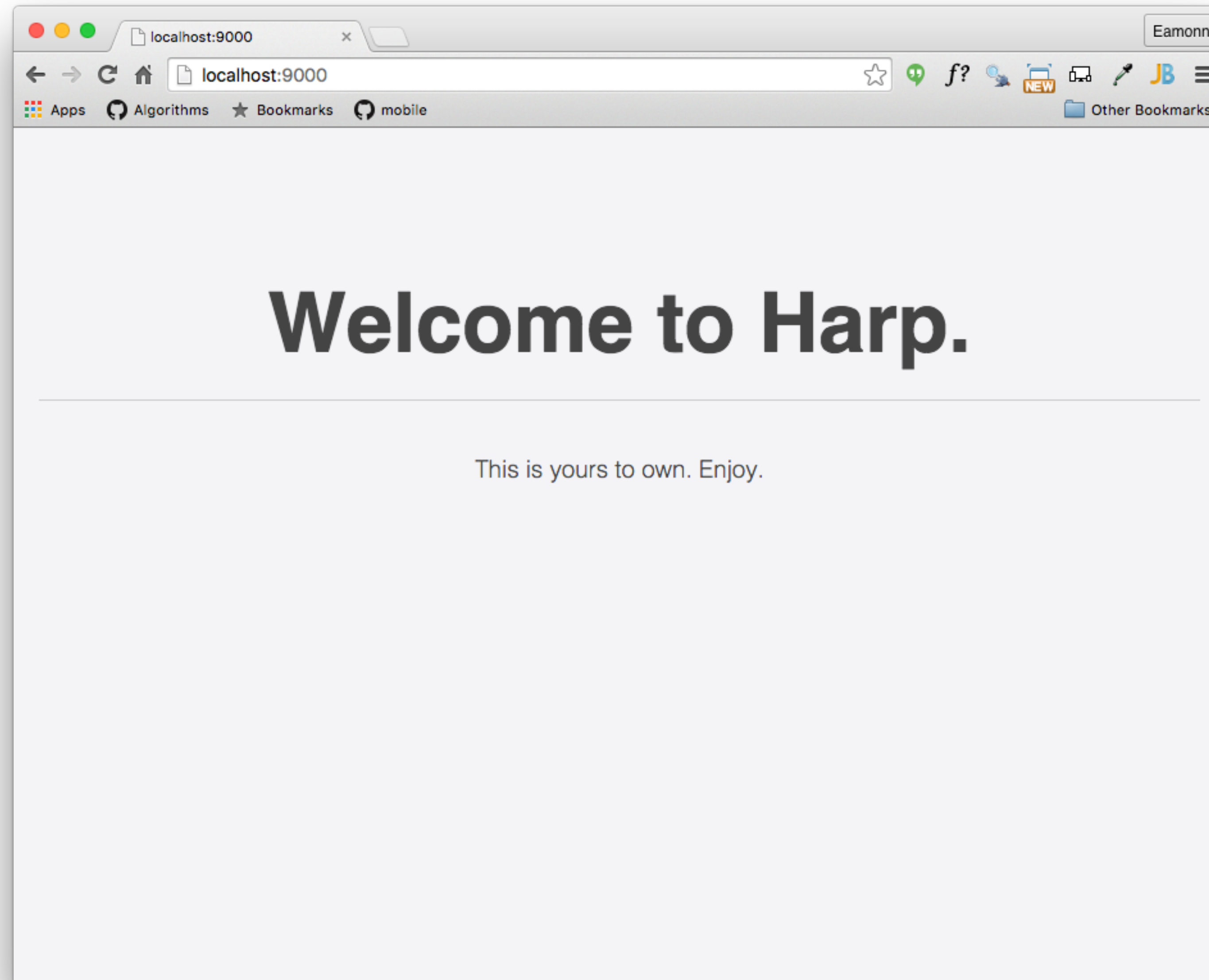
C:\demo>harp server
-----
Harp v0.19.0 - Chloi Inc. 2012-2015
Your server is listening at http://localhost:9000/
Press Ctl+C to stop the server
-----
```

harp init demo

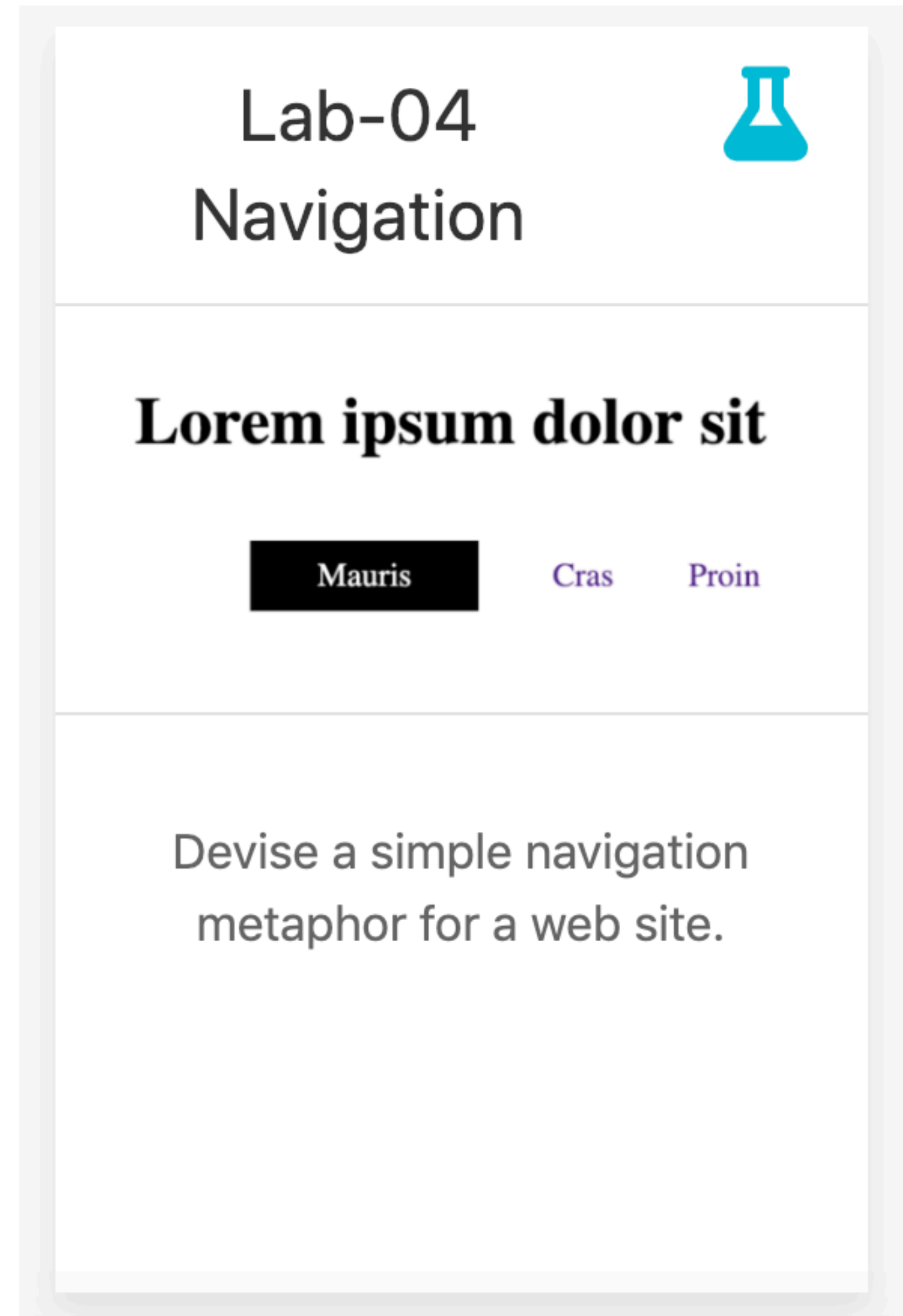
cd demo

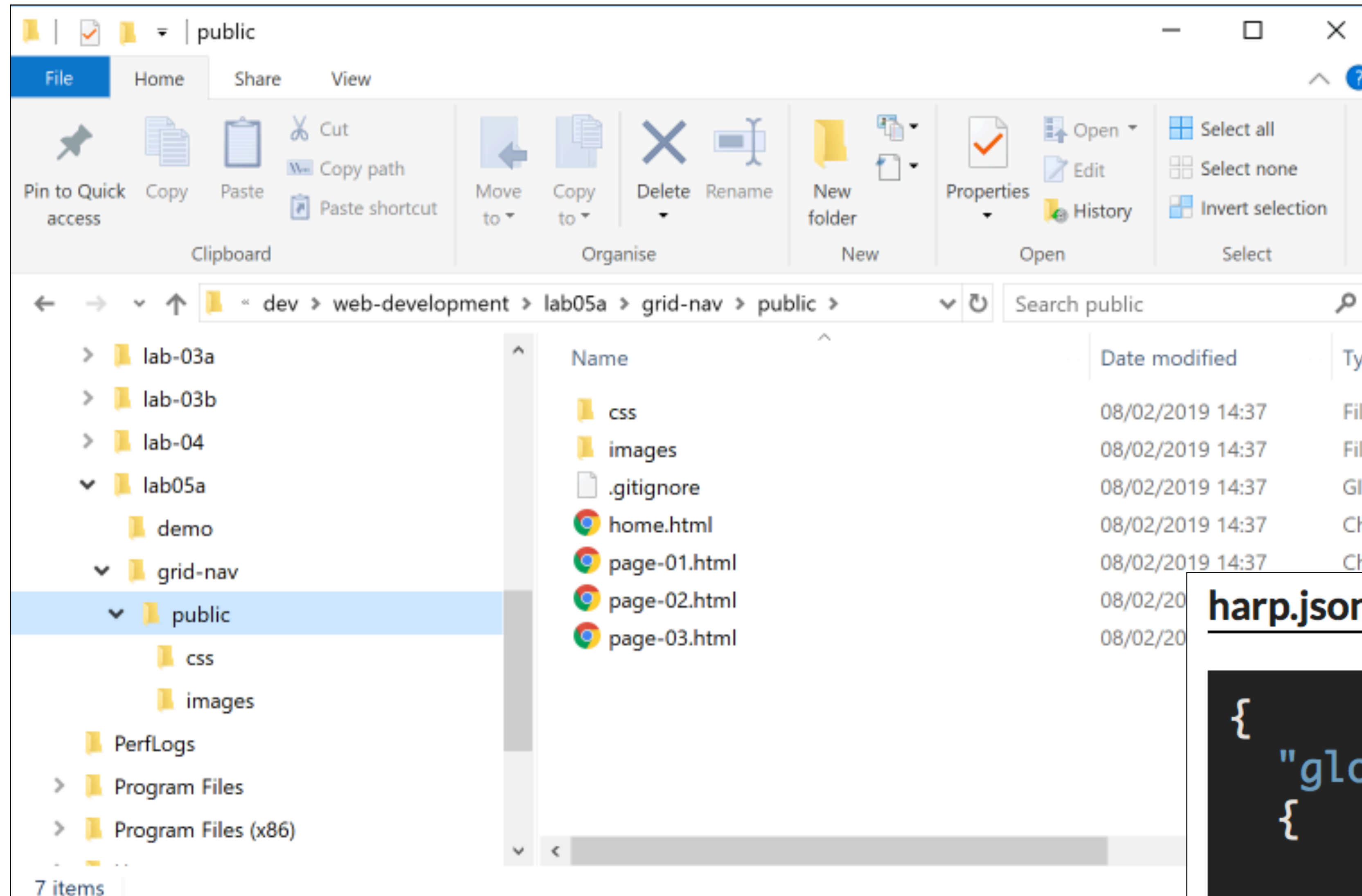
harp server

Visit the Site



Serve the site from Lab-04 Navigation





Expand the lab04 project

Create an additional file - harp.json

harp.json

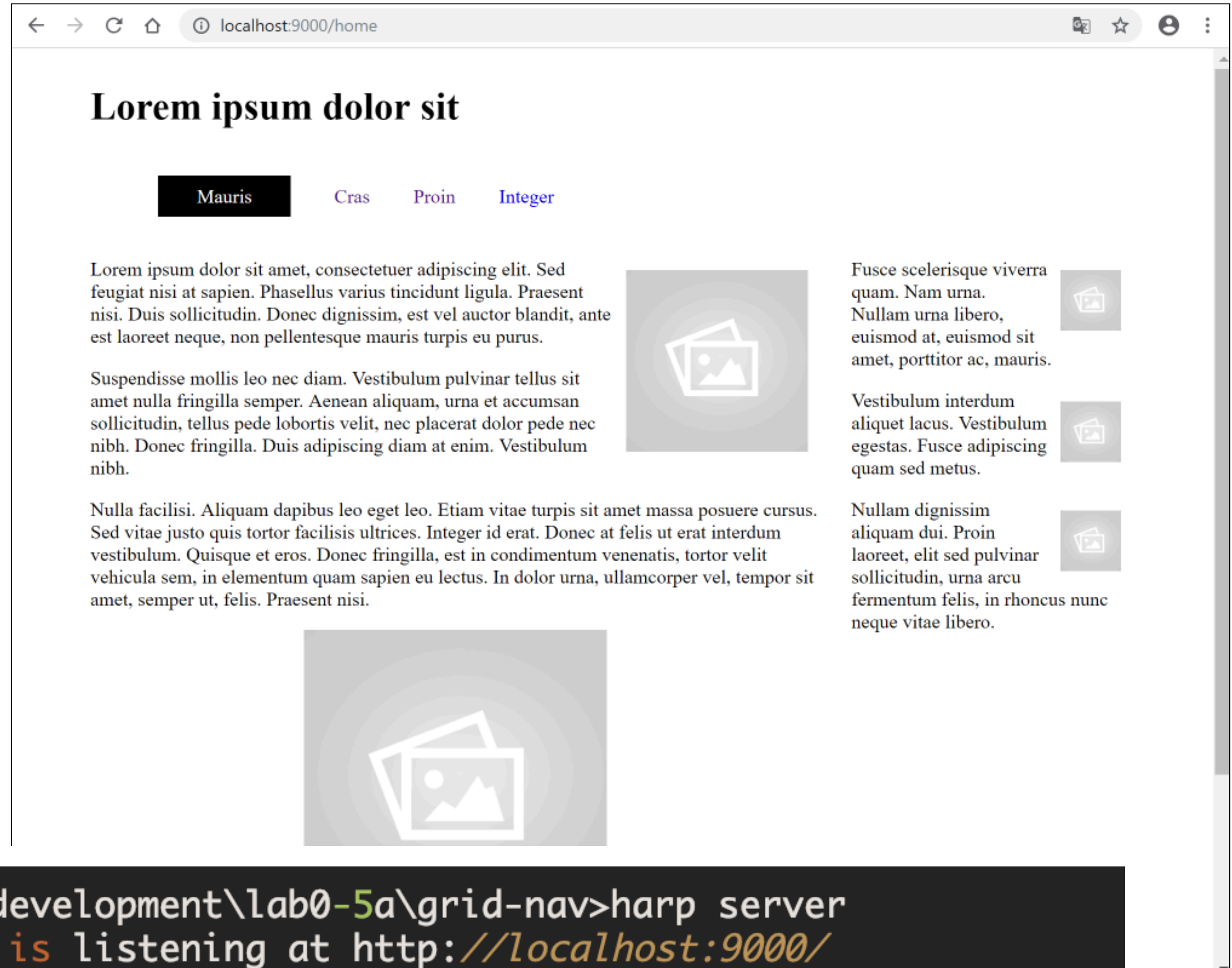
```
{  
  "globals":  
    {  
    }  
}
```

Run the harp server again

- harp server

Browse to localhost:9000

The site is “served” here
and can be browsed as
expected



```
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



surge

[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.

5,781,055

deployments

54.20 TB

published

817,425

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

C:\demo>harp server
-----
Harp v0.19.0 - Chloi Inc. 2012-2015
Your server is listening at http://localhost:9000/
Press Ctrl+C to stop the server
-----
^CTerminate batch job (Y/N)? y

C:\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
propagate on CDN: [===] 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: [=====] 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>
```

Domain Name

```
project path: C:\dev\web-development\lab0-5a\grid-nav>
  size: 34 files, 2.3 MB
  domain: dull-pet.surge.sh
  upload: [=====] 100%, eta: 0.0s
propagate on CDN: [=====] 100%
  plan: Free
  users: youremail@domain.com
  IP address: 192.241.214.148

Success! Project is published and running at dull-pet.surge.sh
```

- 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