Harp.js & Surge

Harp & Surge

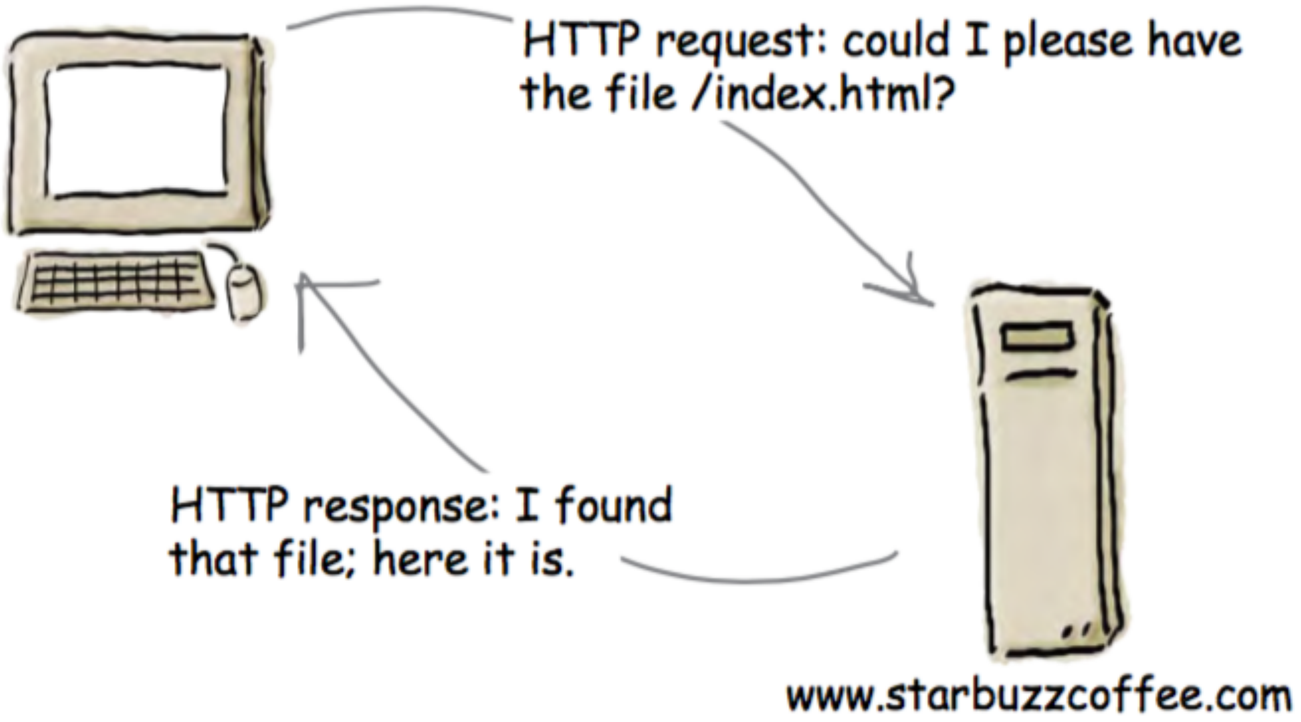
command prompt · node · harp · surge · server · compile

Lab-5a Harp & Surge

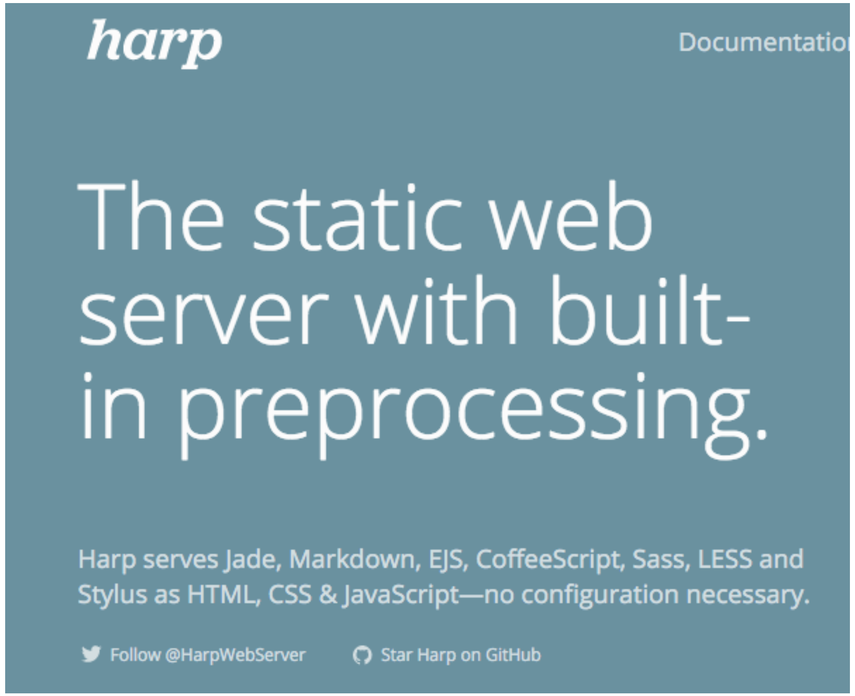
Install software tools to serve a web site locally and also to deploy the web site to a public web server.

The Role of a Web Server

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



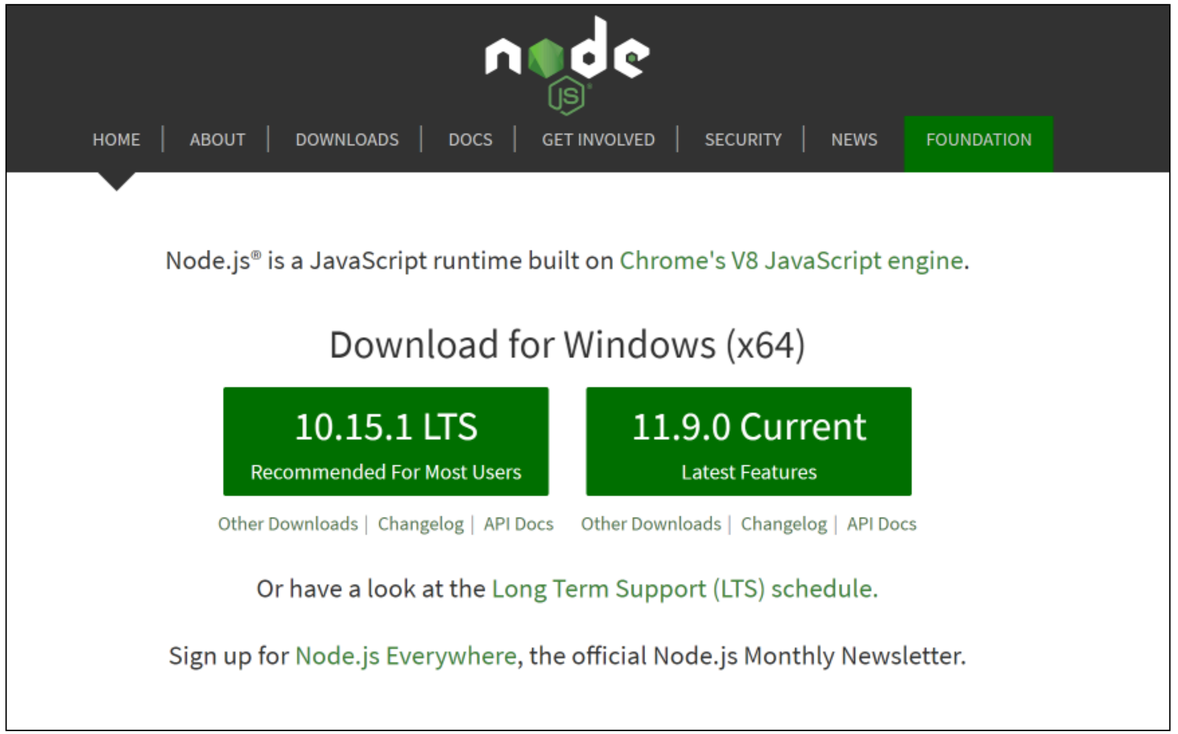
Harp.js

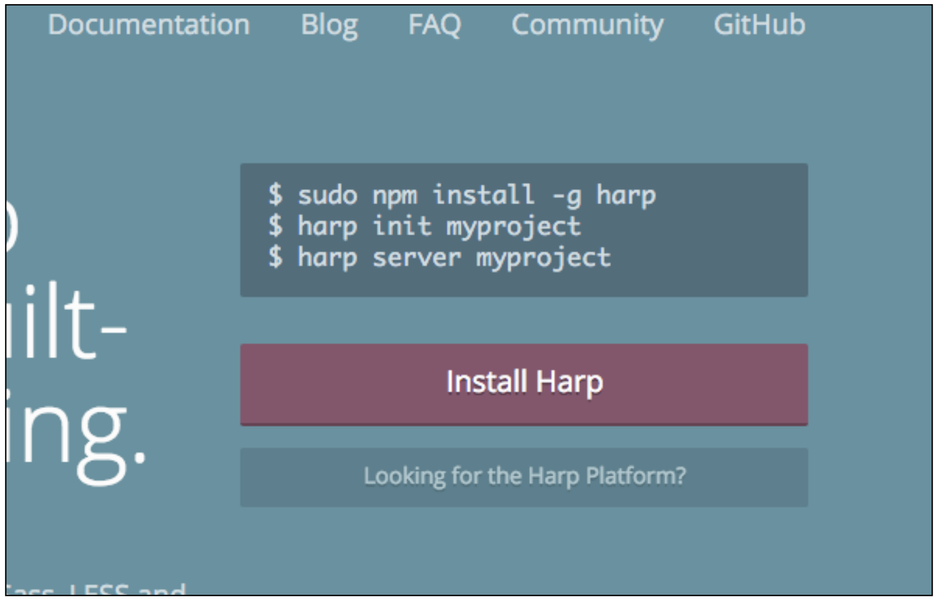


- For professional web site development, you need a local web server. Otherwise, the site you develop will not be sufficiently tested.
- Harp.js is a web server you can run on your own computer.
- It behaves exactly like a web server used by a hosting company
- You can use it to simulate how your page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

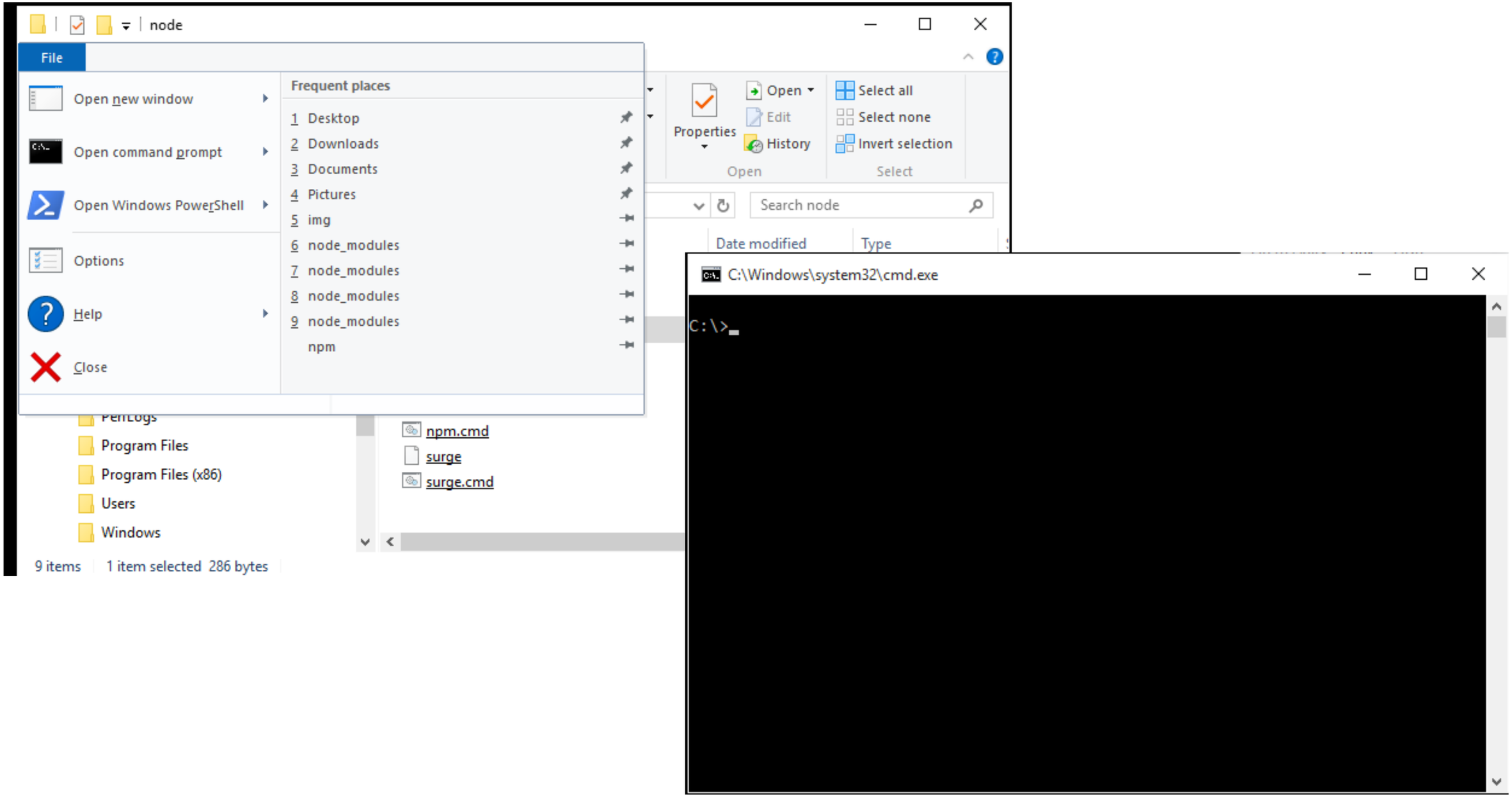
Installing Harp

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

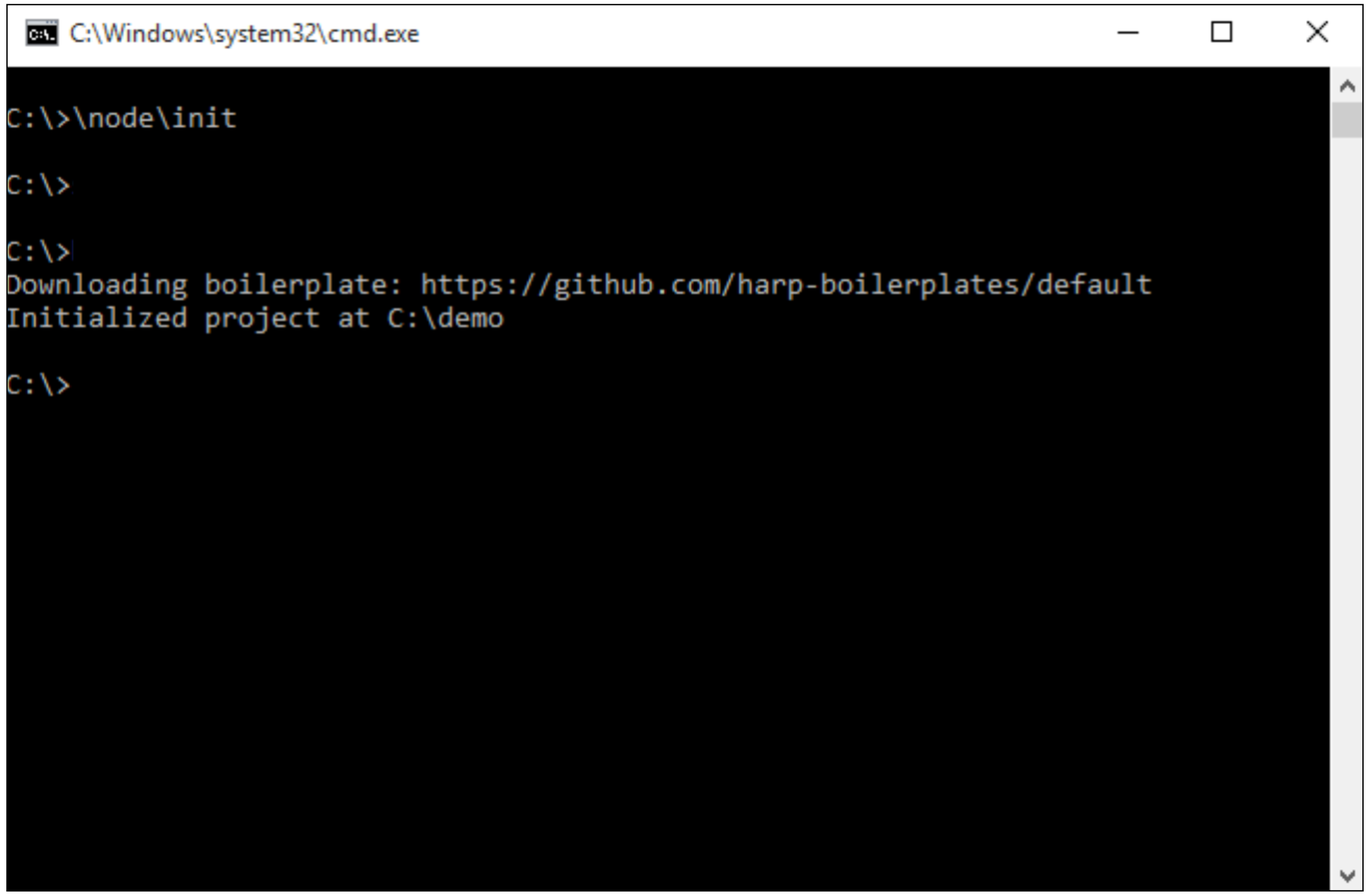




Run a Command Prompt



Create a test Project



harp init demo

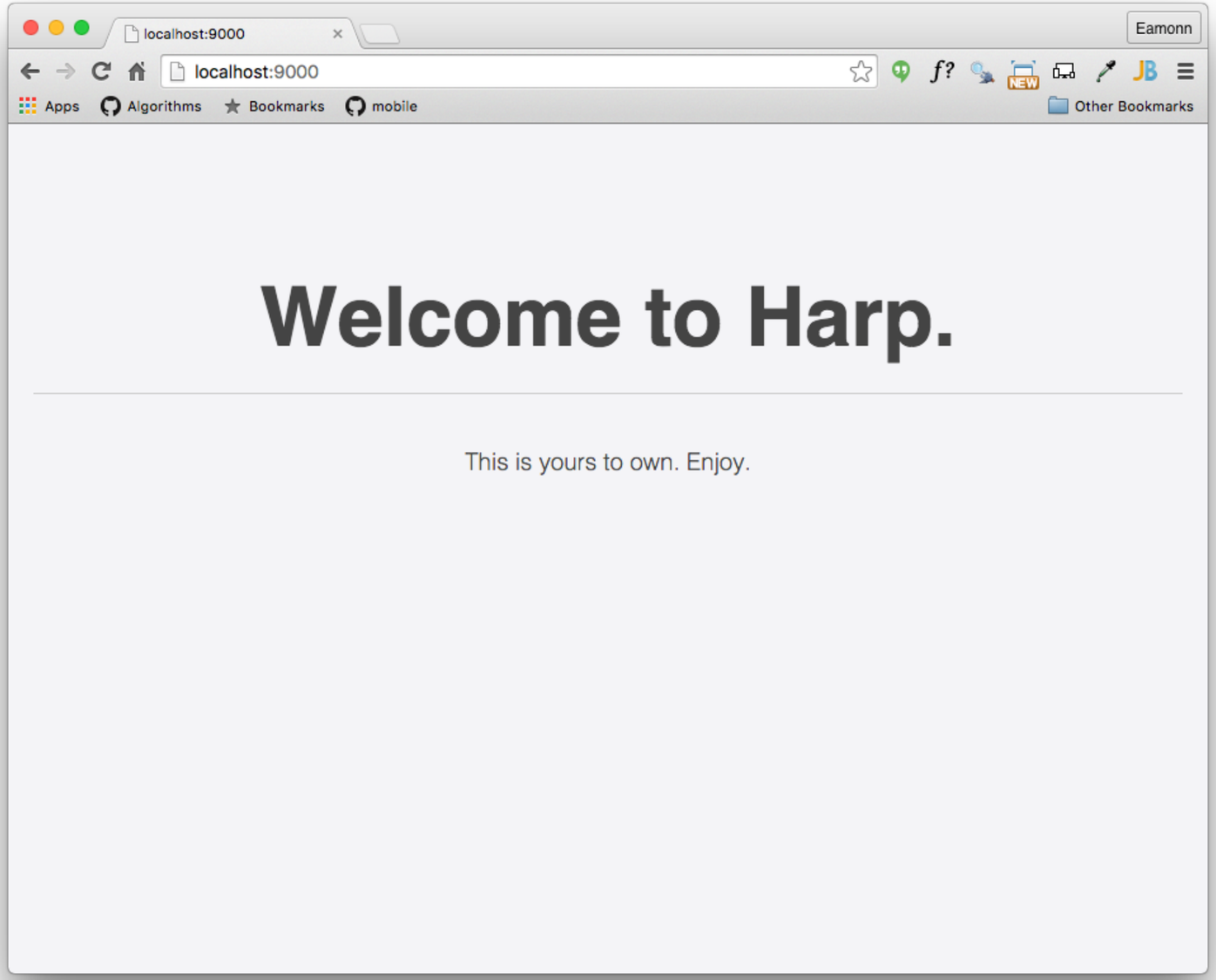
Launch the Web Server for this demo project

```
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
------------
```

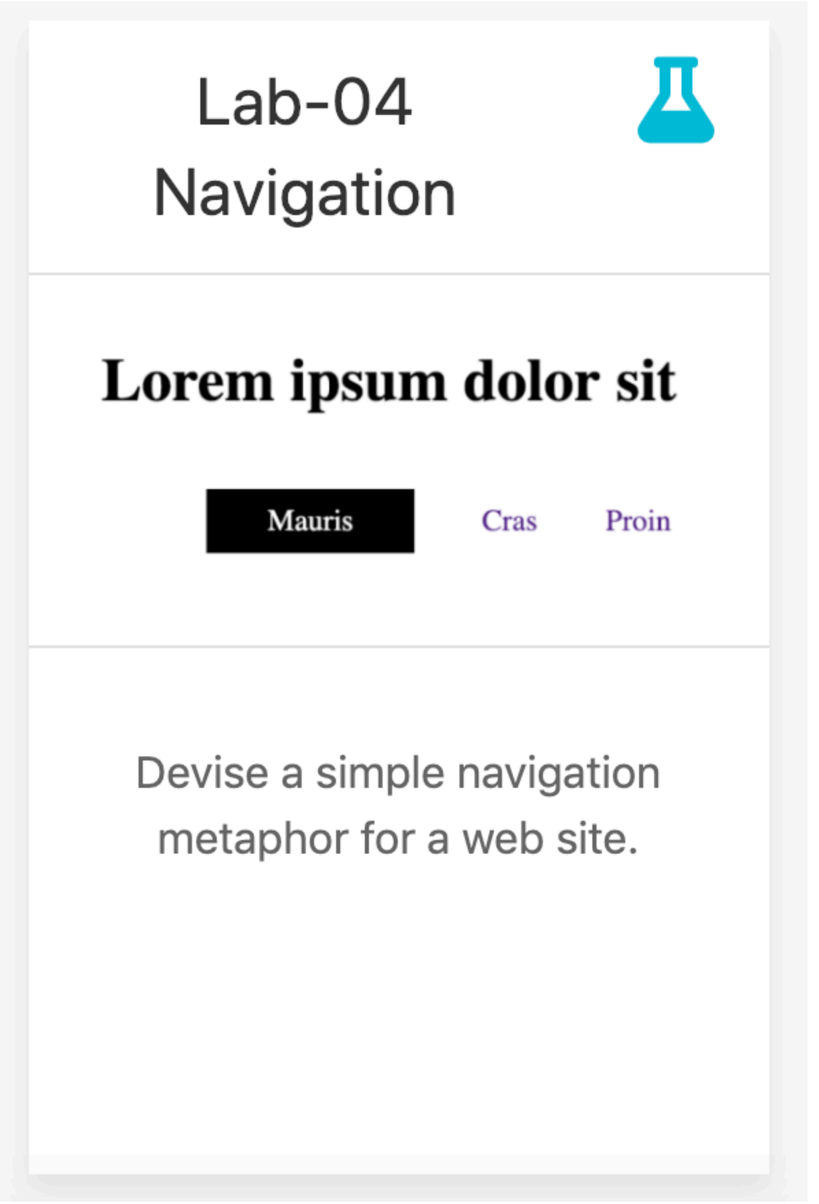
cd demo

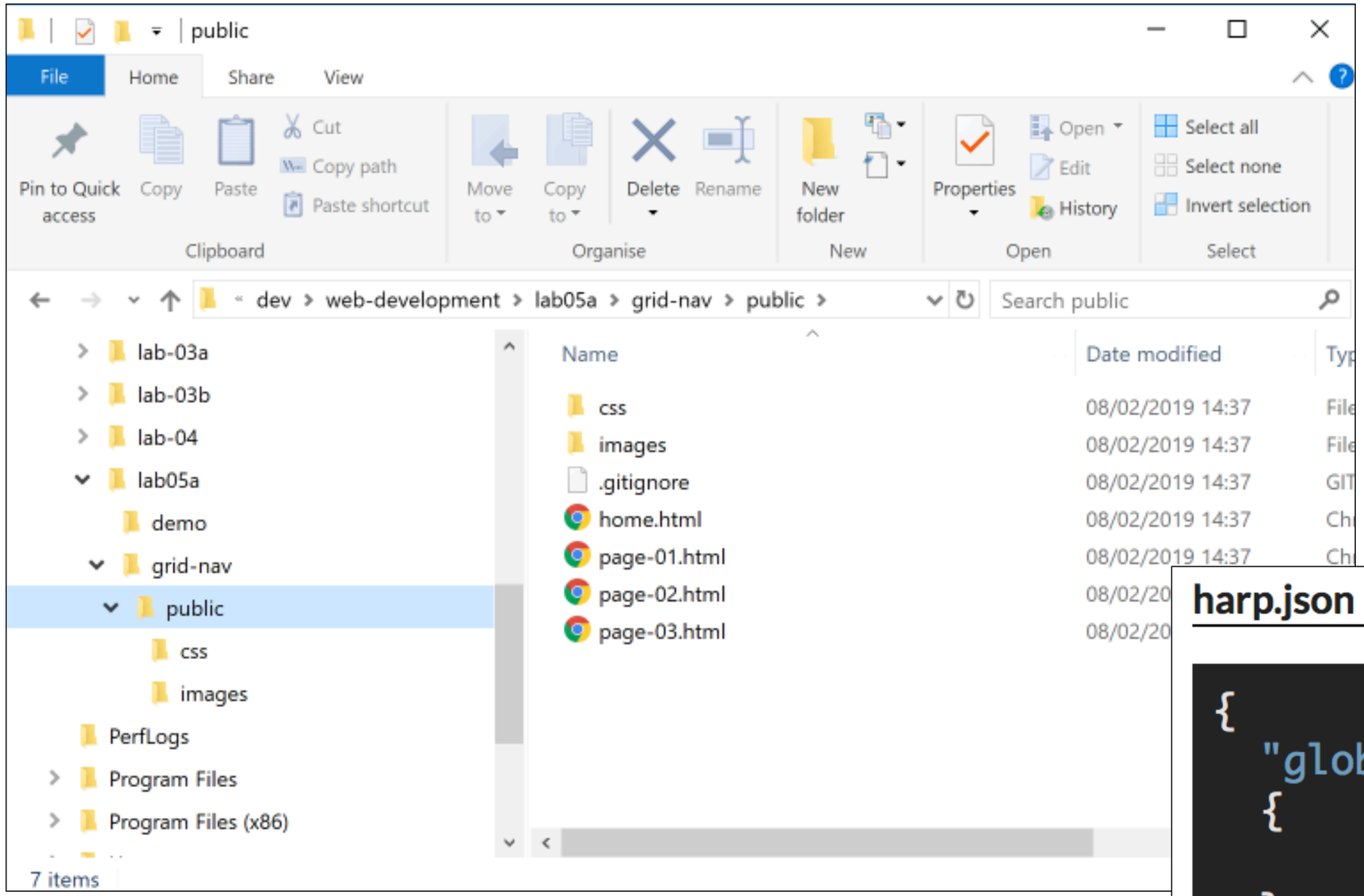
harp server

Visit the Site



Serve the site from Lab-04 Navigation





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.

3,664,196 deployments

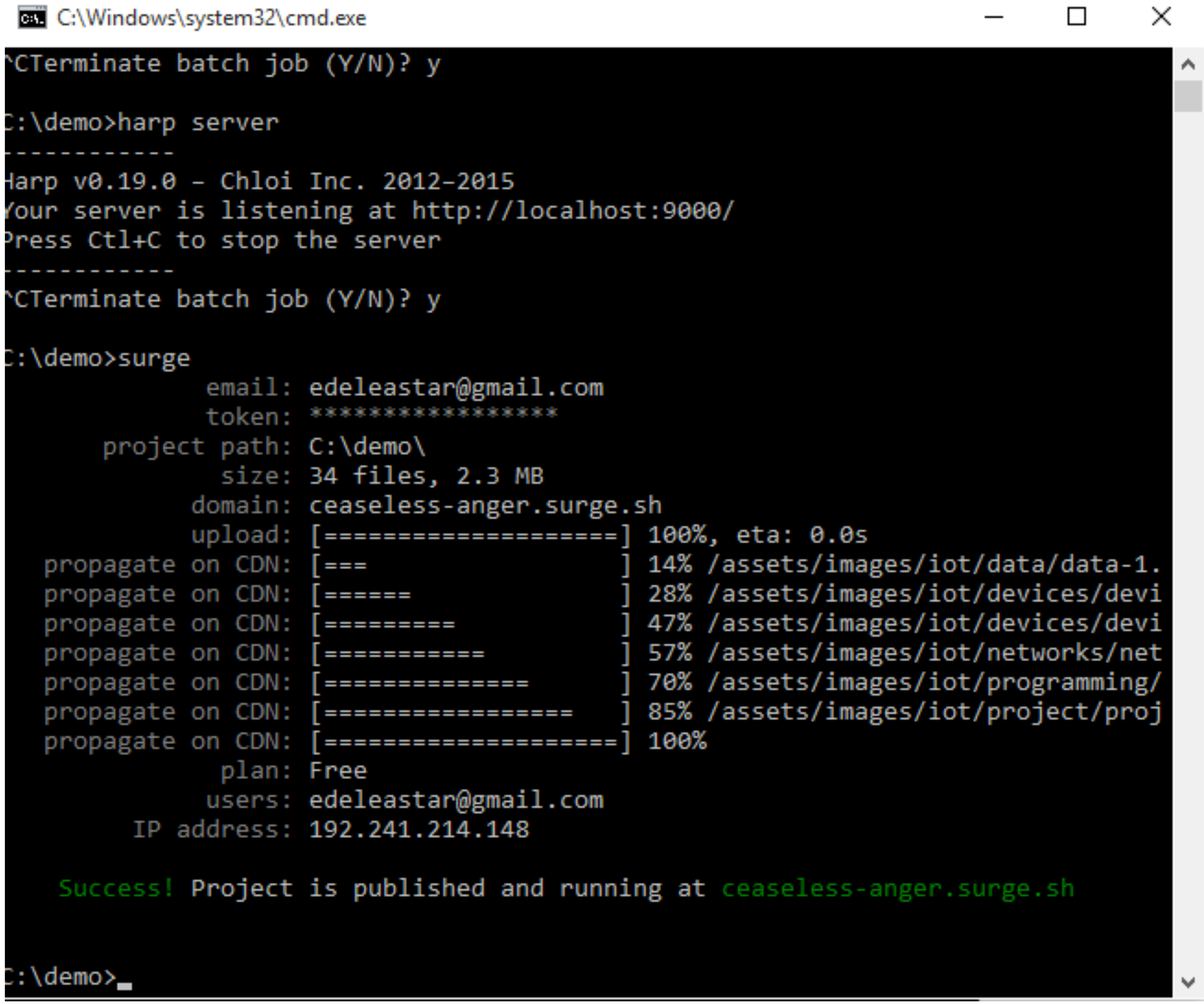
40.18 TB published

493,529 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



Dommain 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