

# Harp.js & Surge

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## Harp & Surge



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

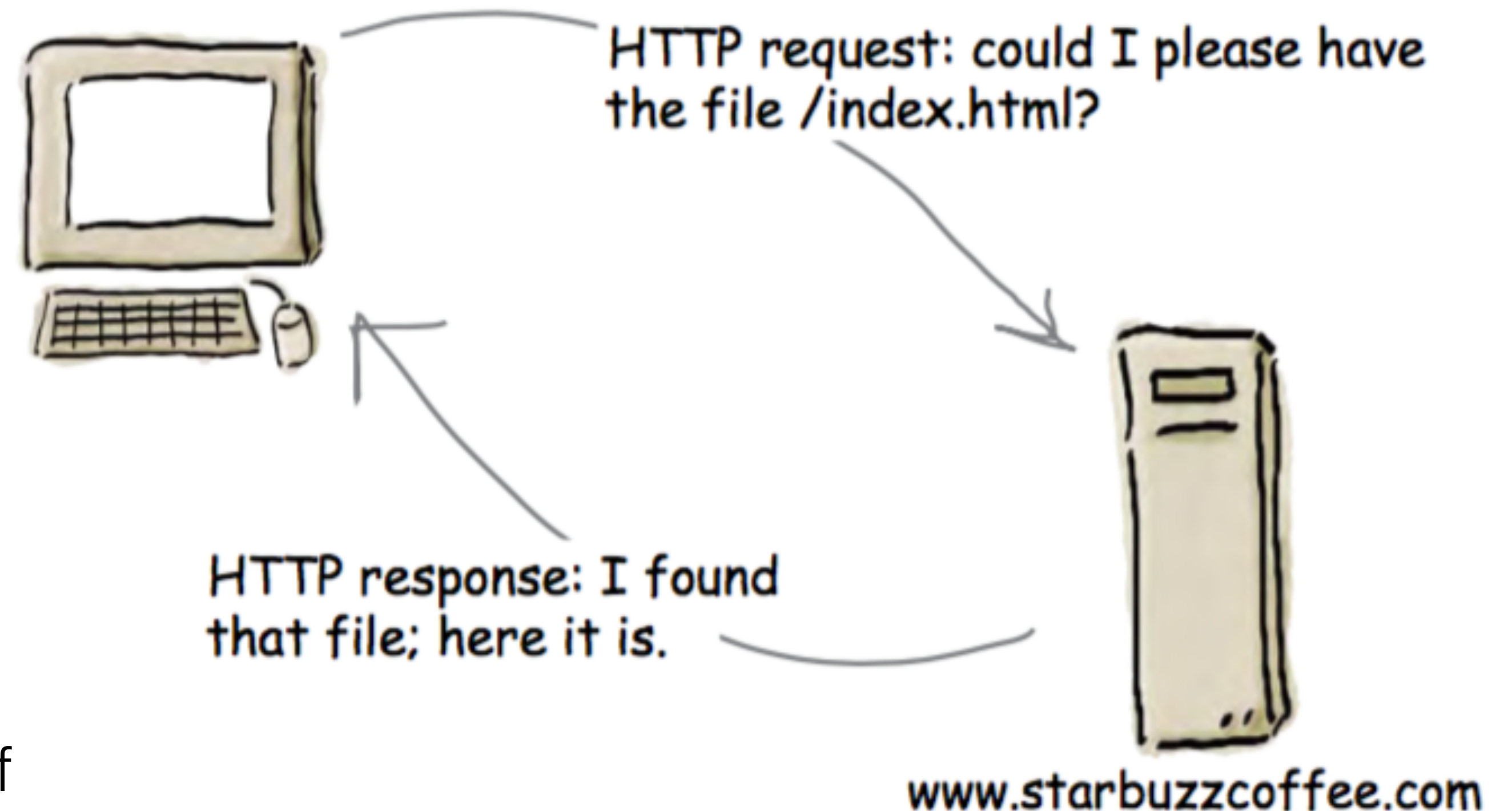
## Lab-5a Harp & Surge



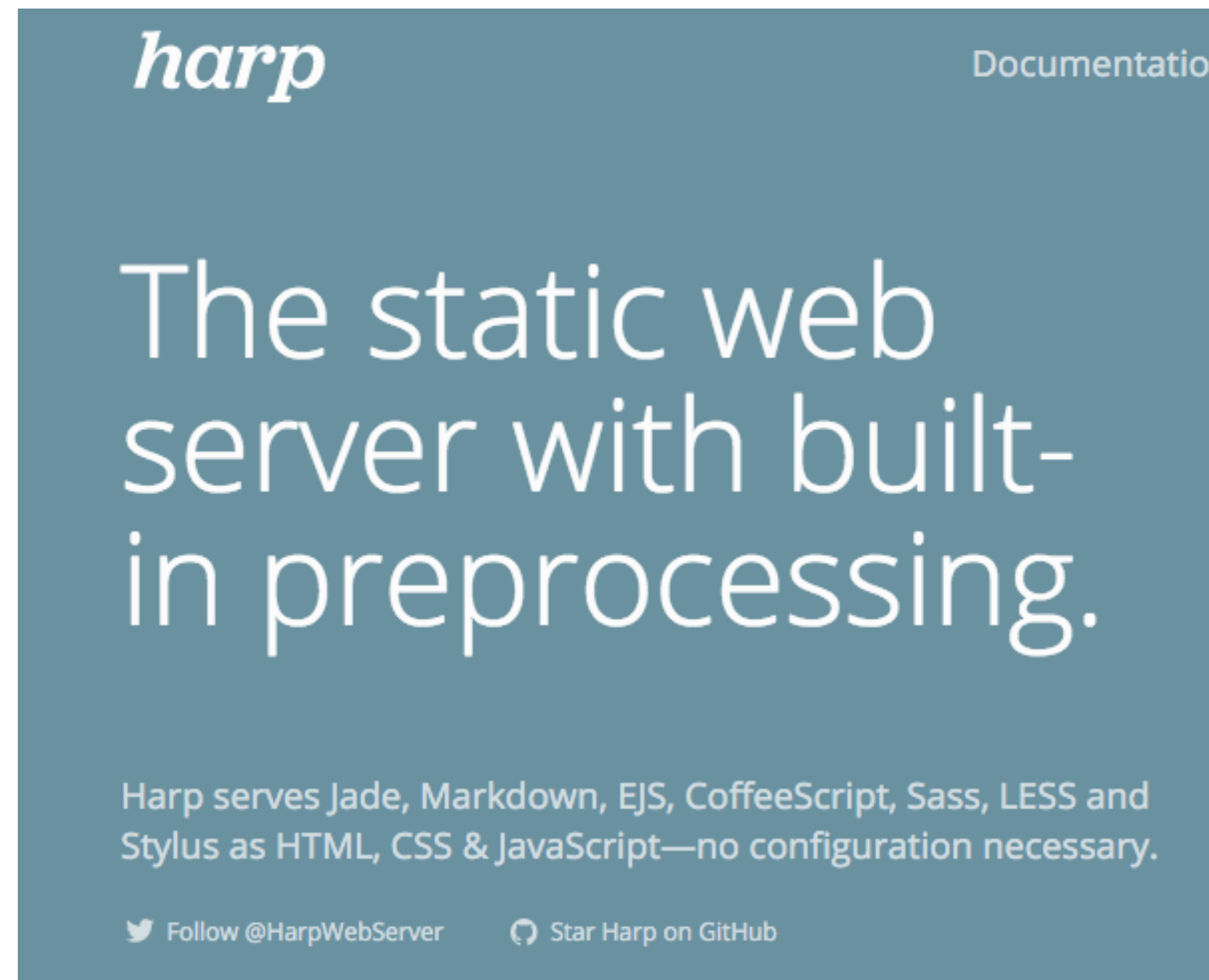
Install software tools to serve a web site locally and also to deploy the web site to a public web server.

# 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



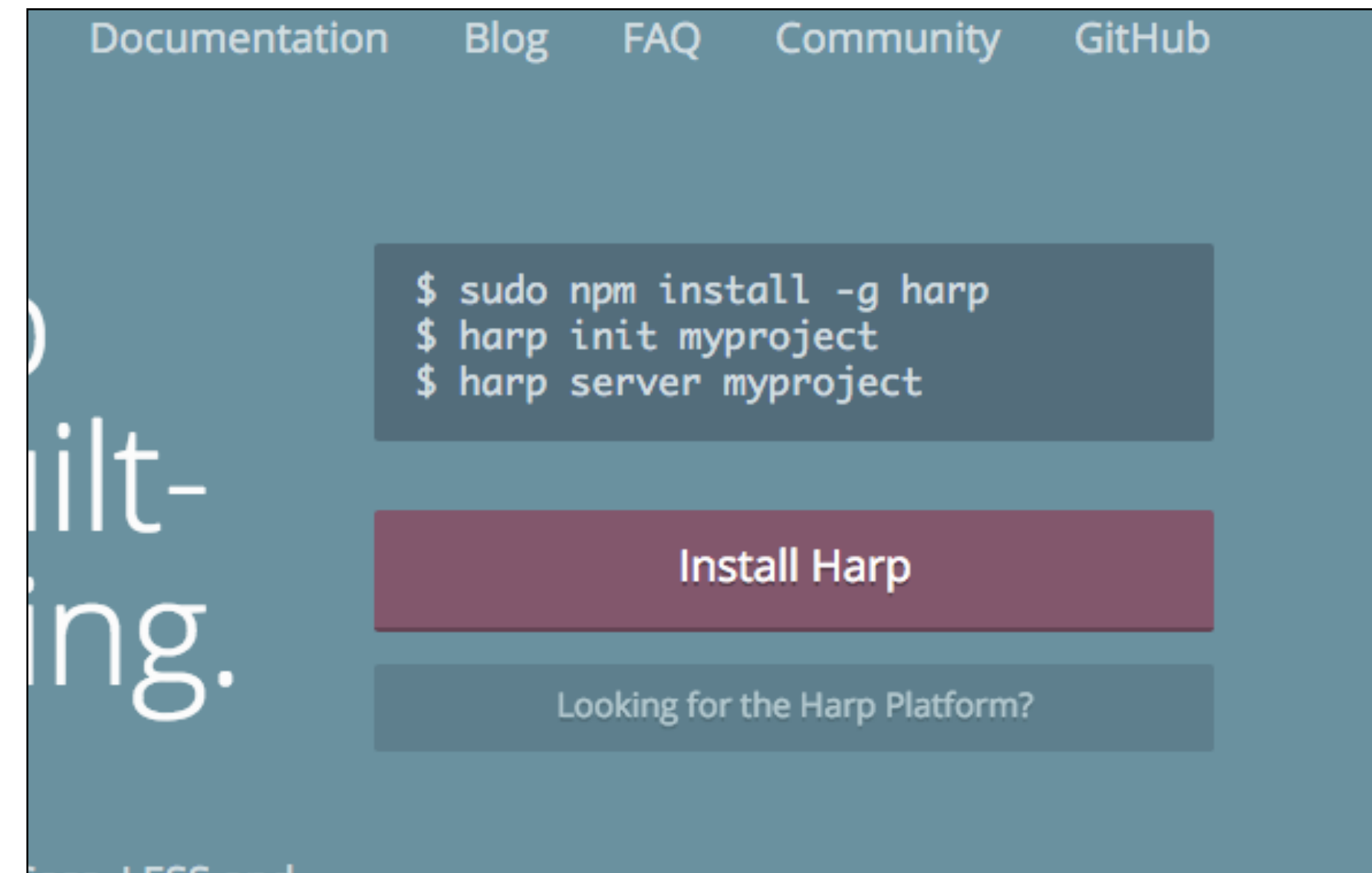
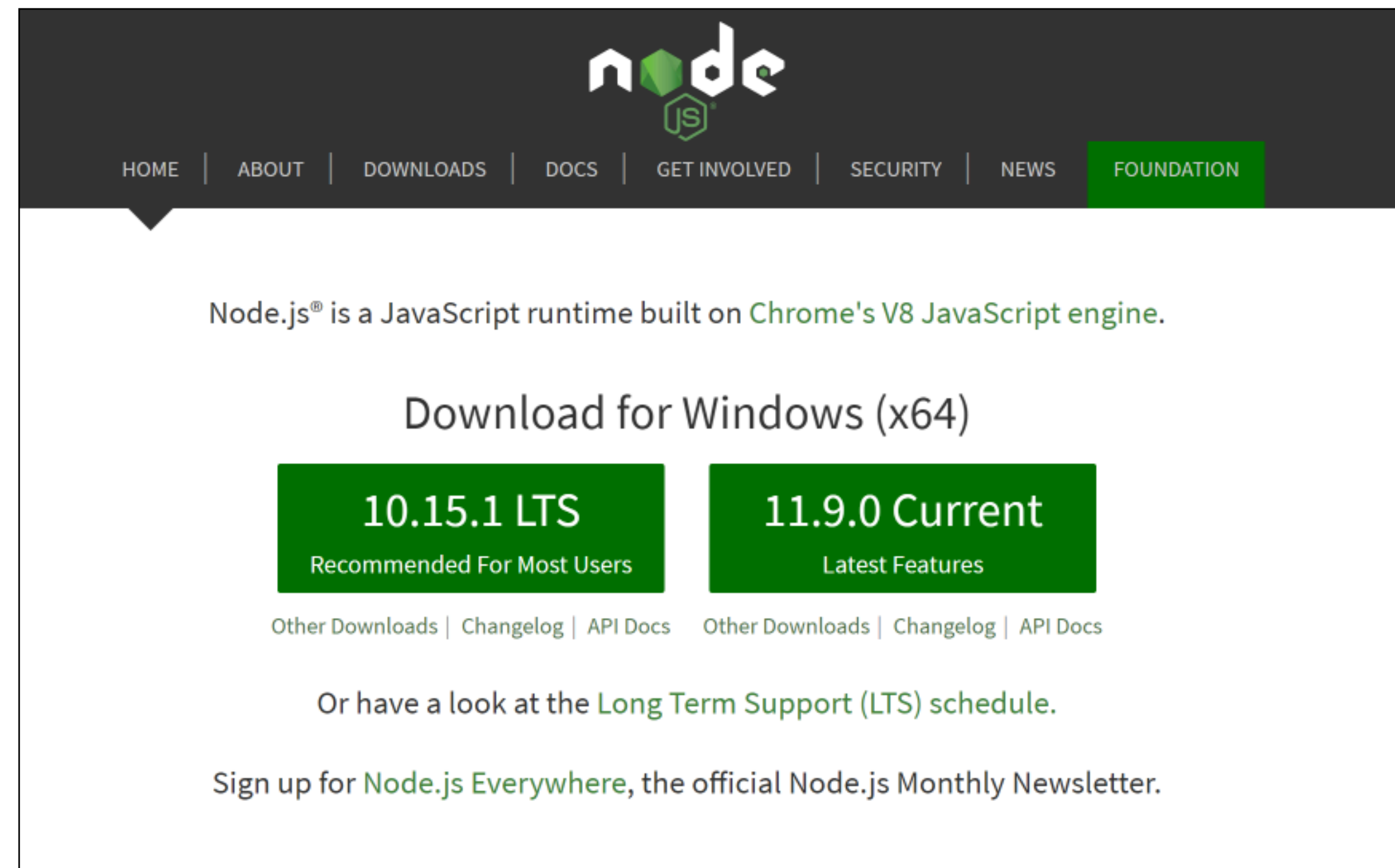
# Harp.js



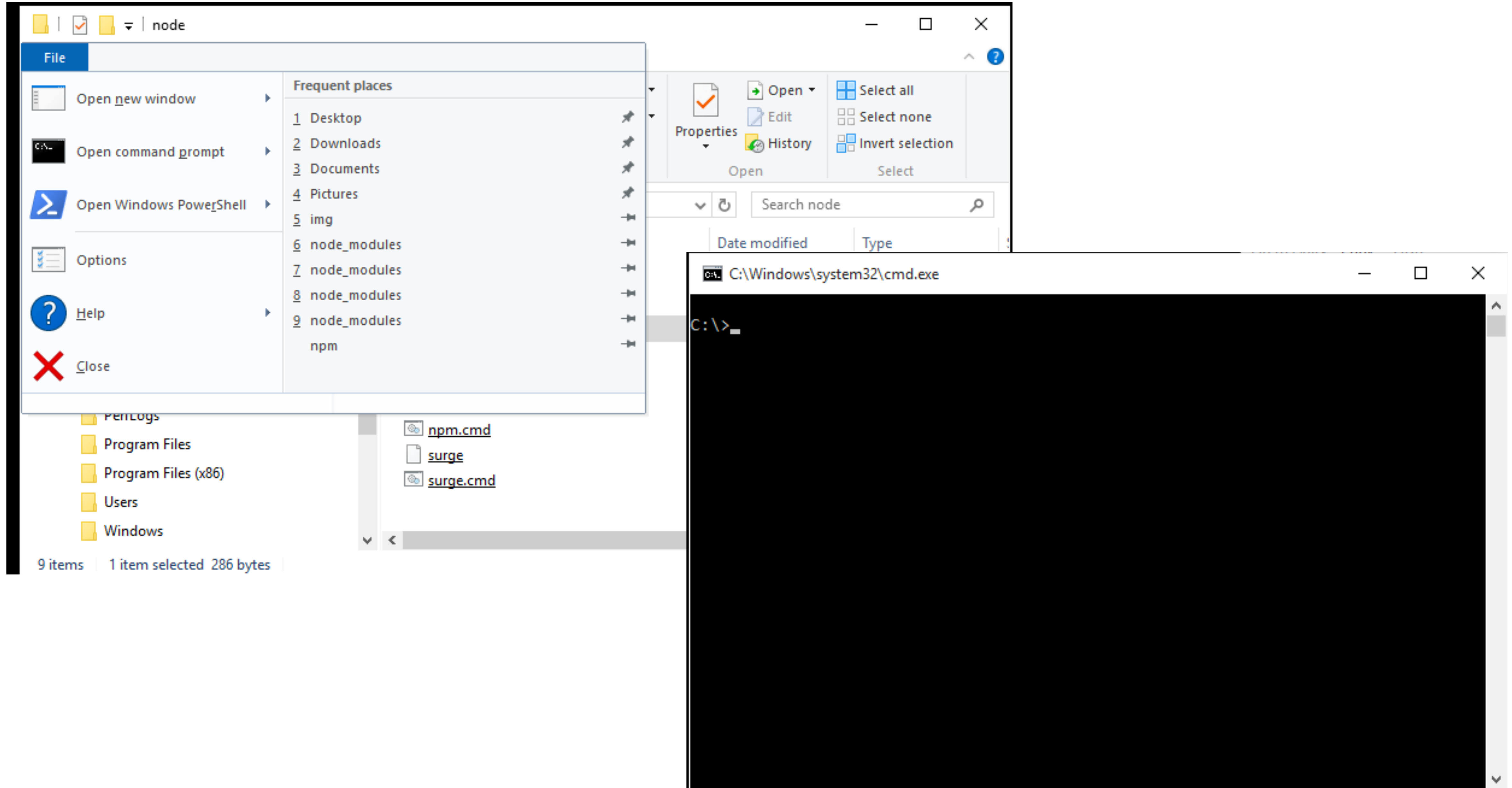
- For professional web site development, you need a local web server. Otherwise, the site you develop will not be sufficiently tested.
- Harp.js is a web server you can run on your own computer.
- It behaves exactly like a web server used by a hosting company
- You can use it to simulate how your page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



# 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

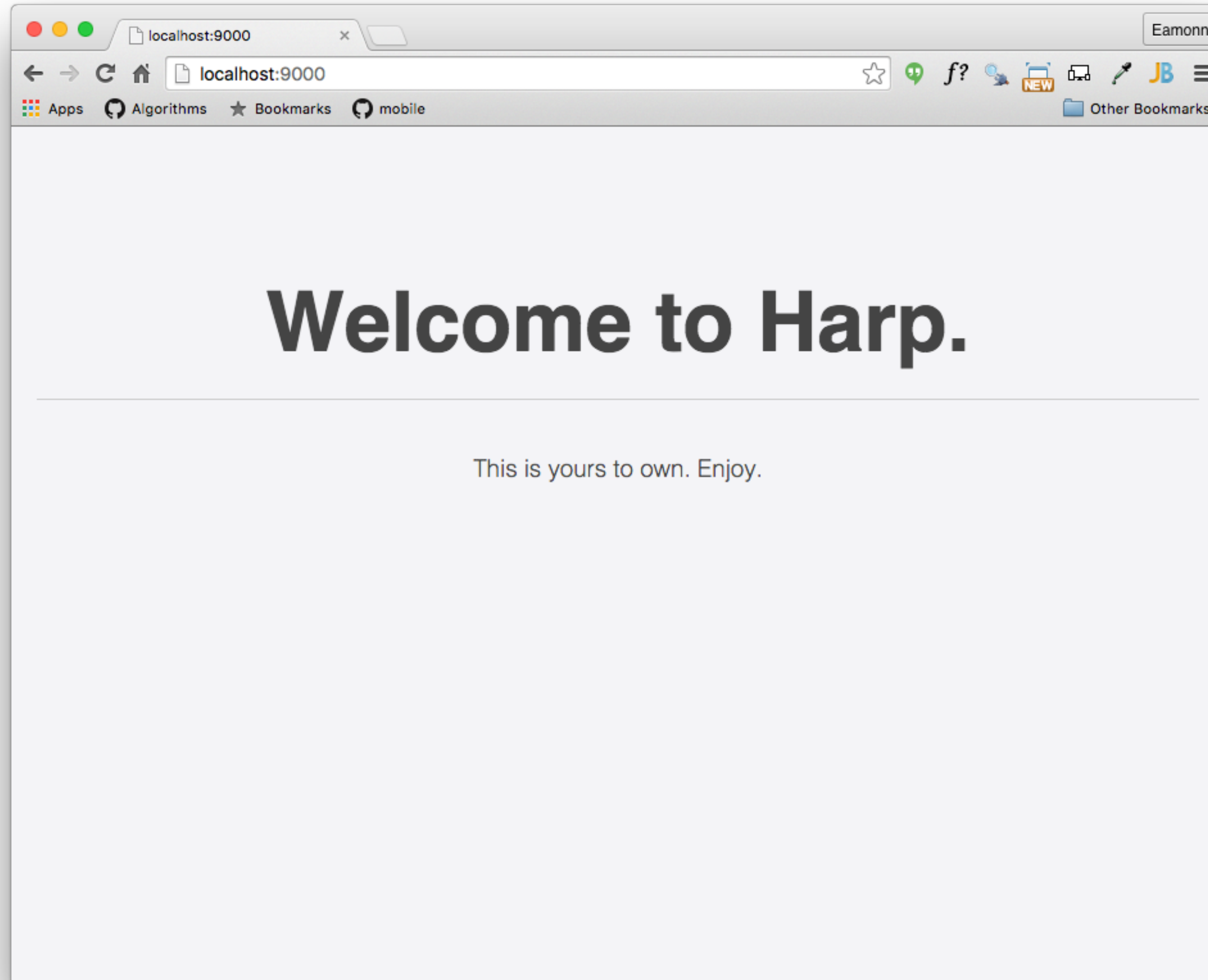
C:\demo>harp server
-----
Harp v0.19.0 - Chloi Inc. 2012-2015
Your server is listening at http://localhost:9000/
Press Ctl+C to stop the server
-----
```

harp init demo


cd demo

harp server

# Visit the Site



# Serve the site from Lab-04 Navigation

Lab-04 

Navigation

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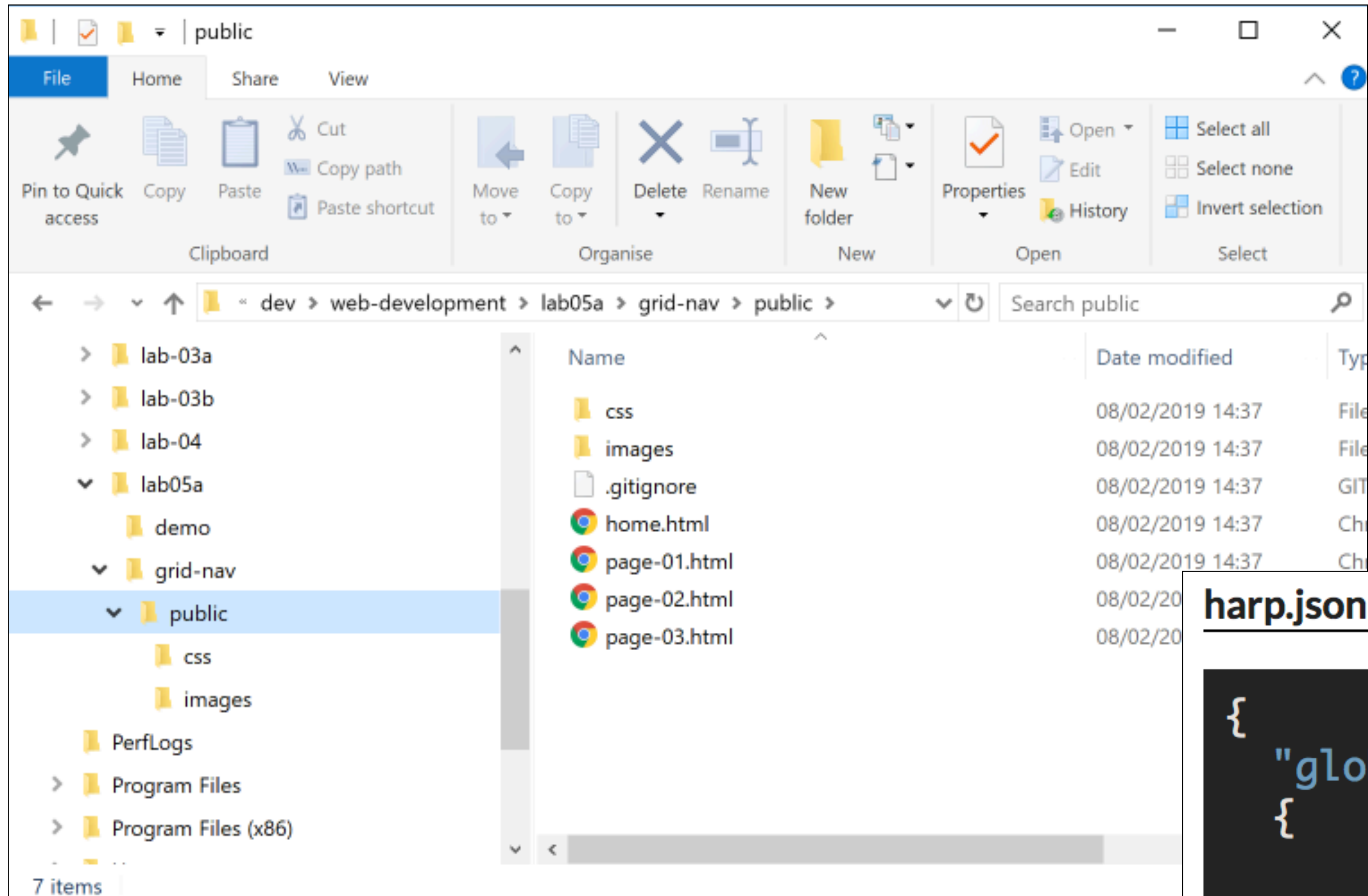
**Lorem ipsum dolor sit**

[Mauris](#) [Cras](#) [Proin](#)

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Devise a simple navigation metaphor for a web site.





Expand the lab04 project

Create an additional file - harp.json

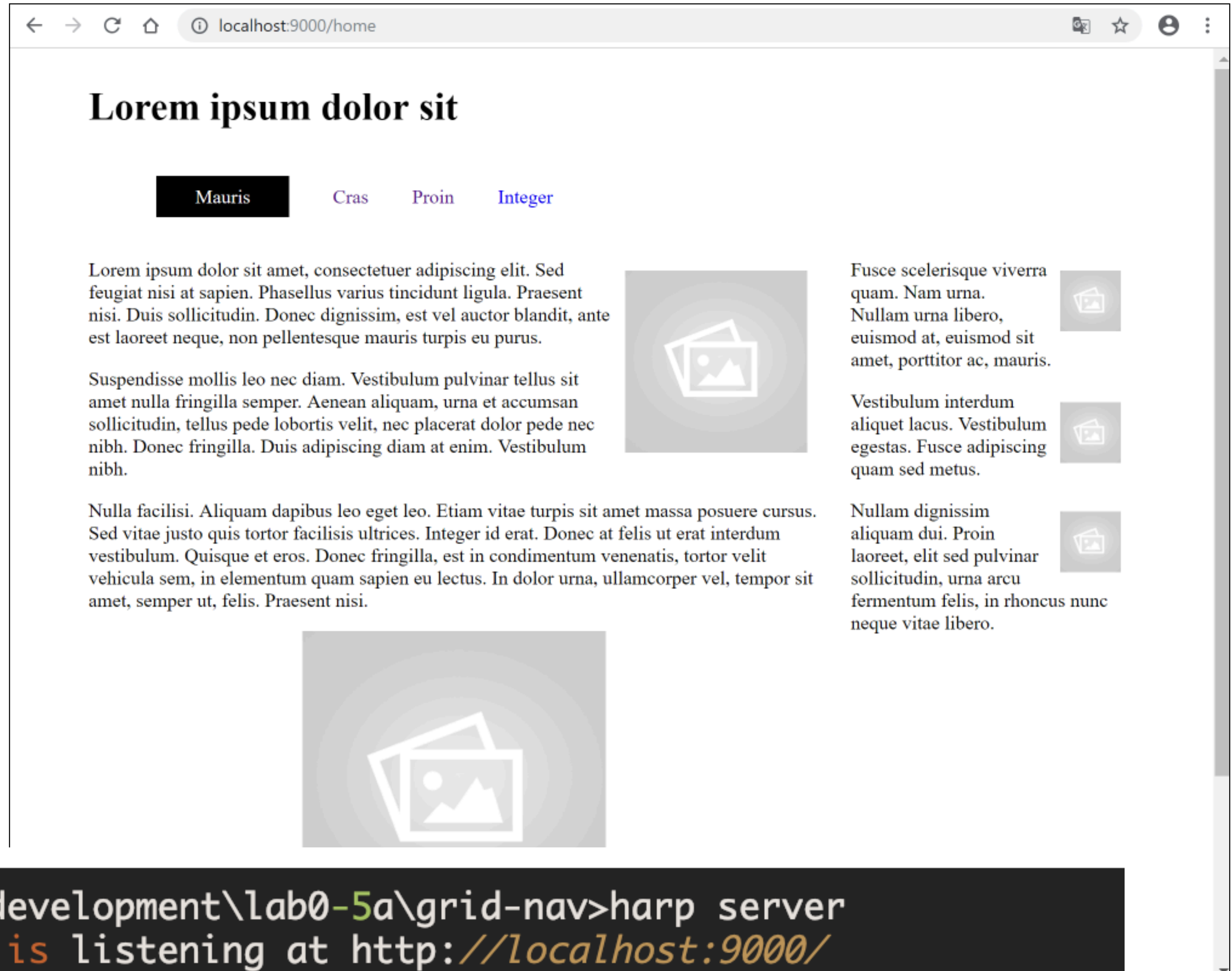
```
harp.json
{
  "globals":
  {
  }
}
```

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 Ctrl+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

```
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 Ctl+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