Harp.js & Surge

Harp & Surge

- The role of a Web Server
- The Harp.js Server
- The Surge.sh Deployment service

The Role of a Web Server

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

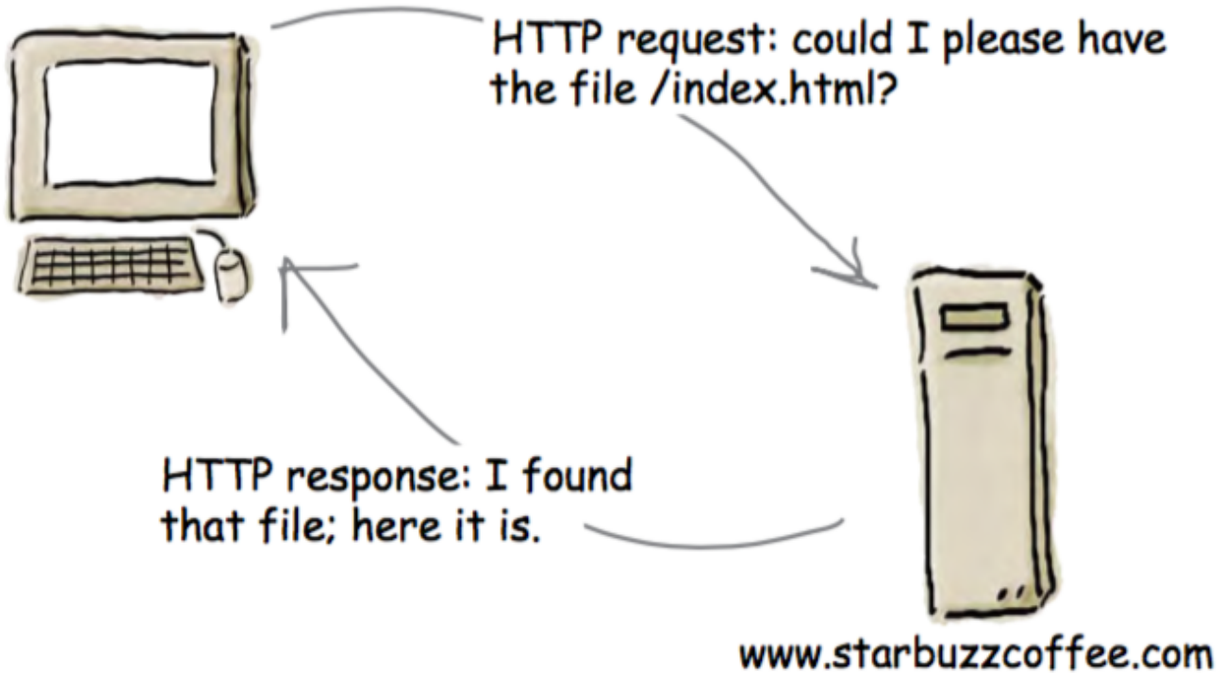
- When a requests is received, the server determines if the request can be ‘served’

- 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

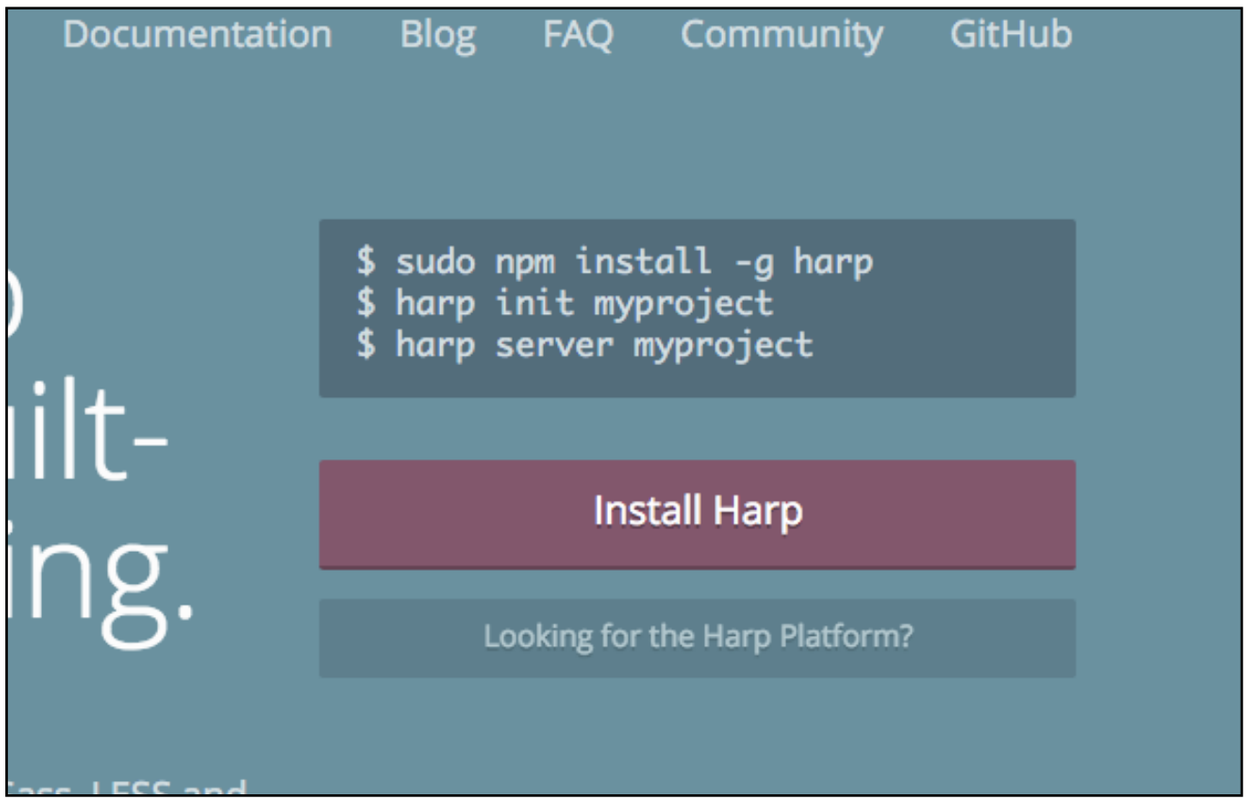


Harp.js

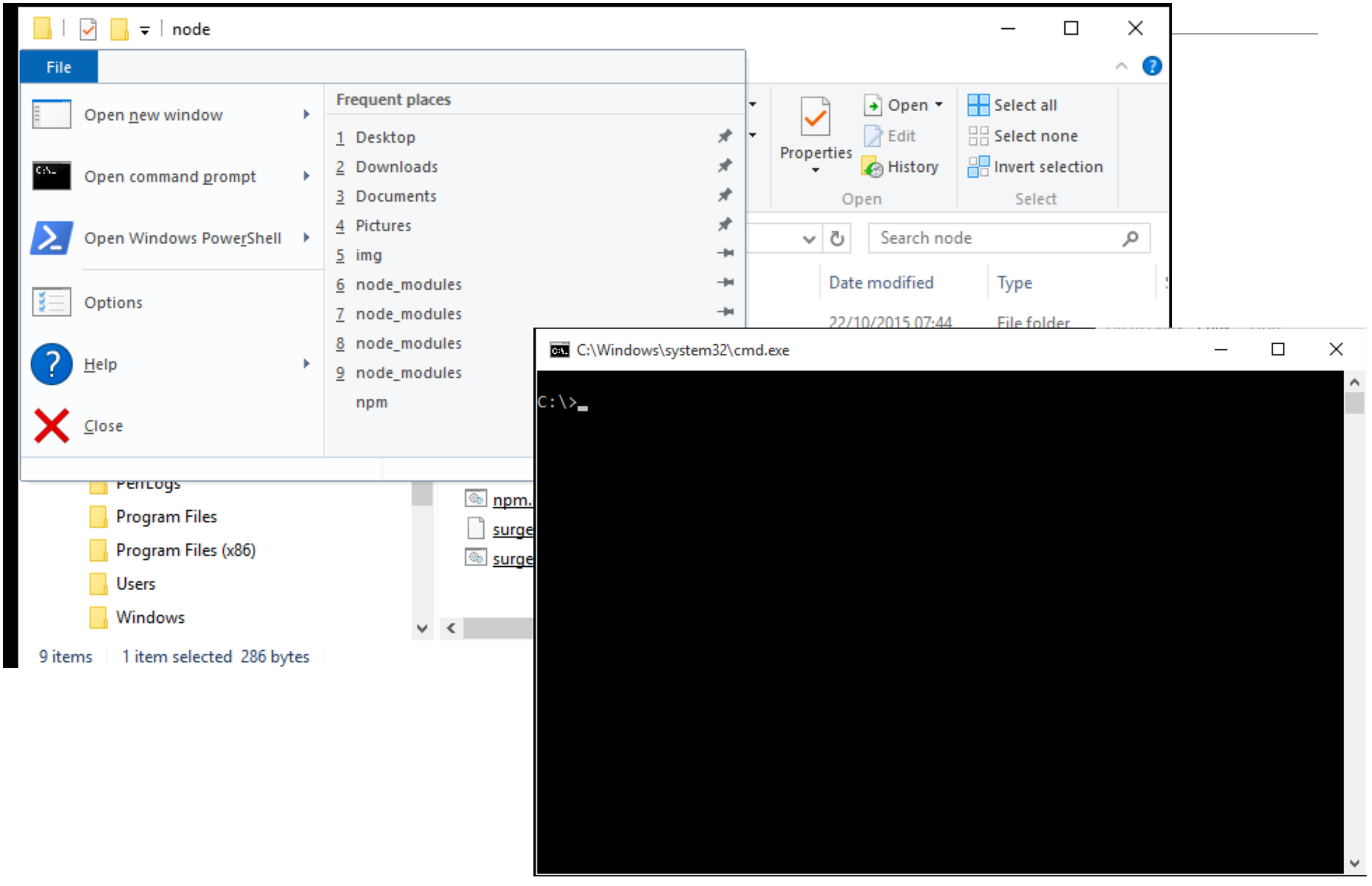
- For professional web site development, you need a local web server. Otherwise, the site you develop will not be sufficiently tested.
- Harp.js is a web server you can run on your own computer.
- It behaves exactly like a web server used by a hosting company
- You can use it to simulate how your page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

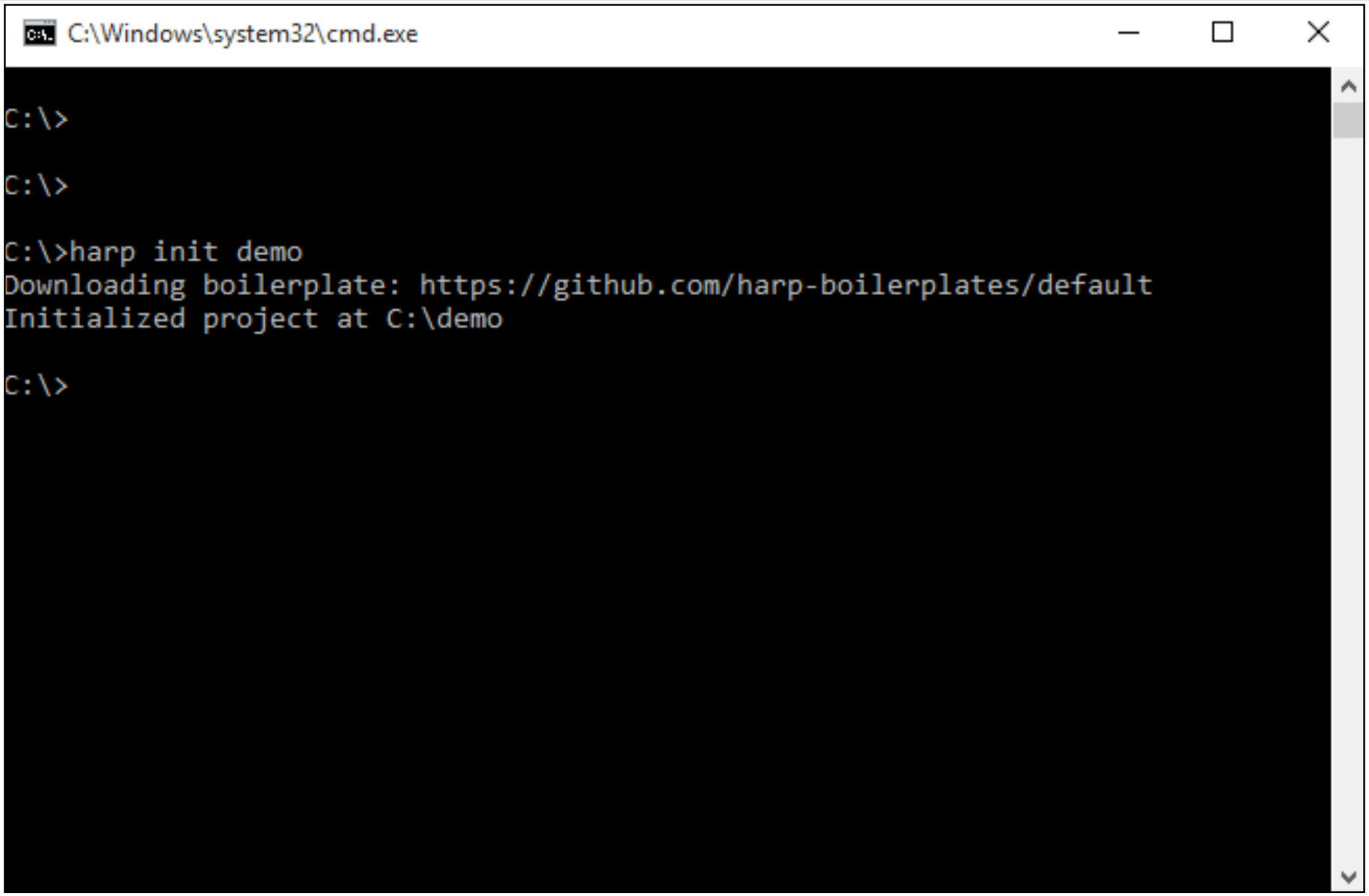
- On your own machines:
  - First install Node.js
  - Then Install Harp



Run a Command Prompt



Create a test Project



harp init demo

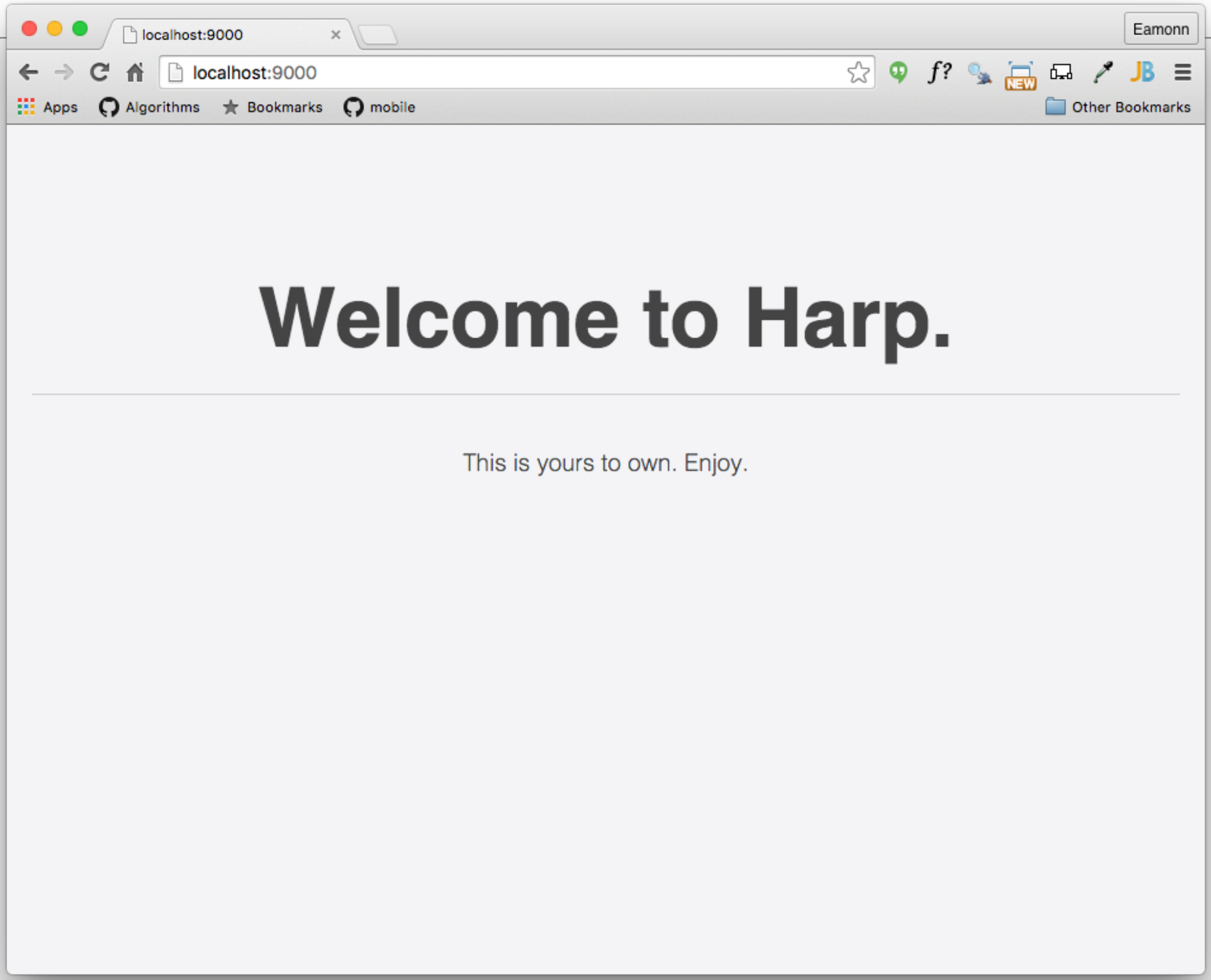
Launch the Web Server for this demo project

```
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

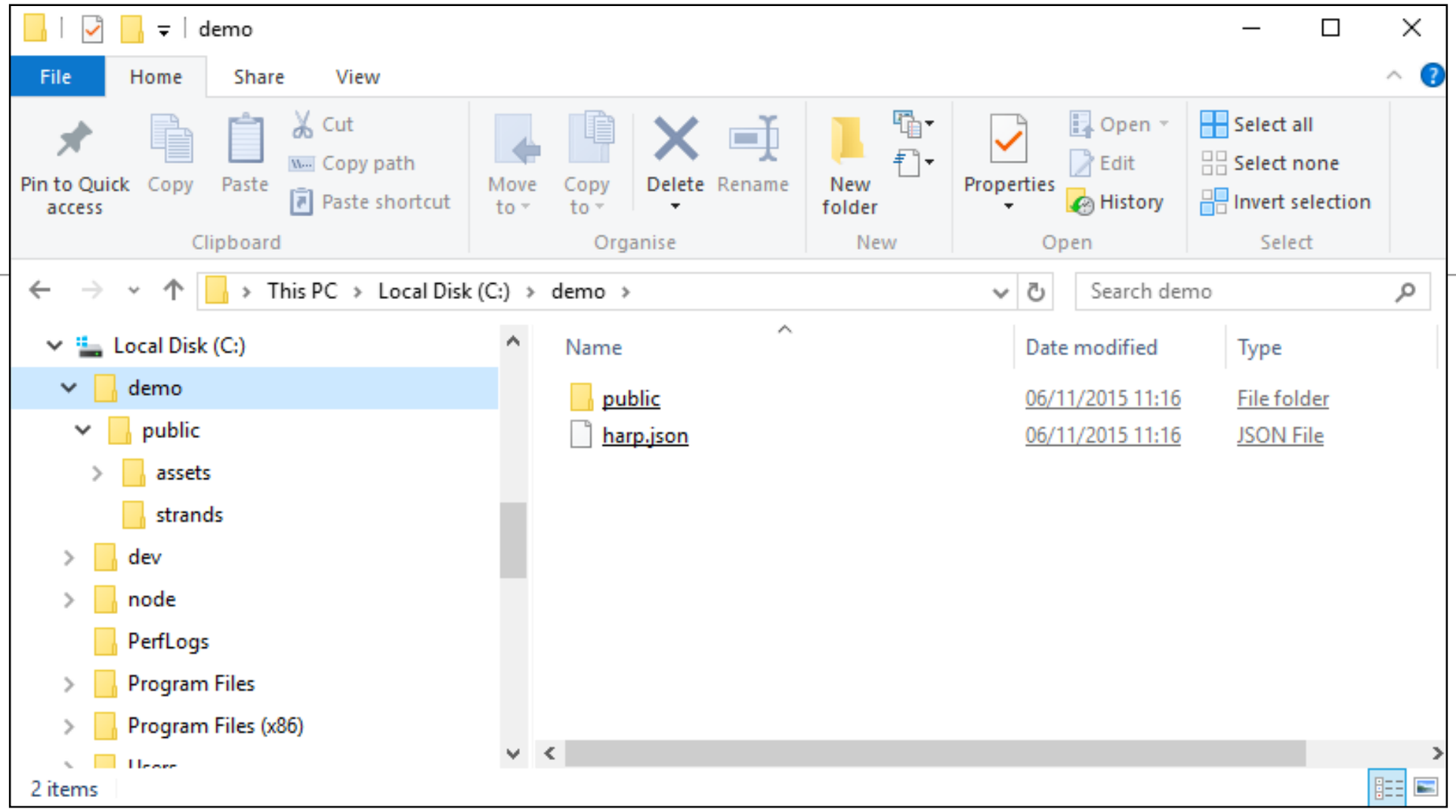


Serve the site from Lab-1.1Case Study

- Lab-1.1 Case Study generated a web site we will use as an initial test

Lab-1.1 Case Study

In the lab the web is evolved from unstyled content to a reasonably elegant and clean design. The site employs basic CSS formatting.



- Expand the IoT Archive into the demo folder.

- Create an additional file - harp.json

harp.json

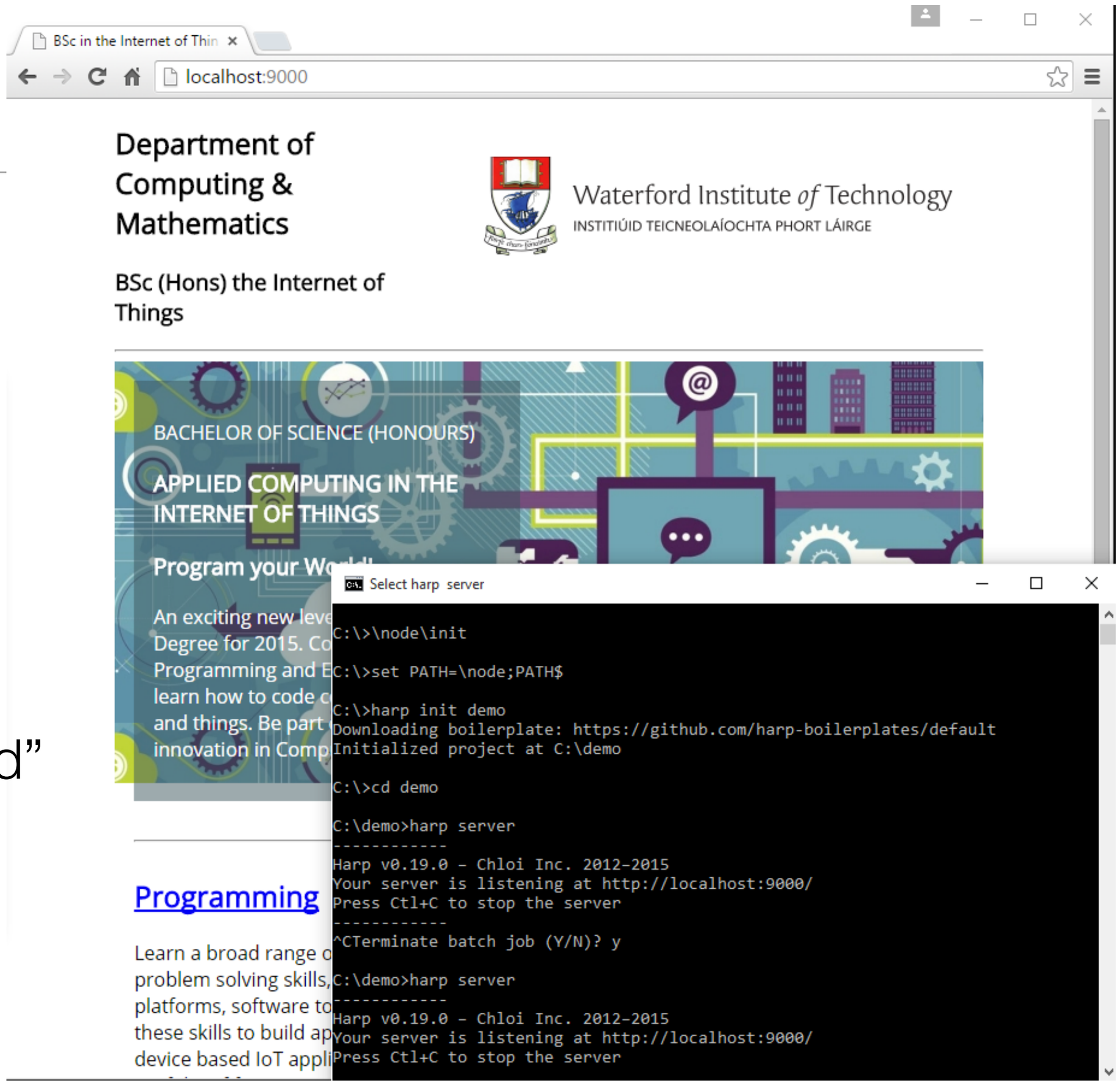
```
{
  "globals":
  {

  }
}
```

Run the harp server again

- harp server

Browse to localhost:9000

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



Deployment - Surge.sh

surge

Pricing Tour Help Blog @surge_sh

Static web publishing *for* Front-End Developers

Zero-bullshit, single–command, bring your own source control web publishing CDN. Yes, it's free.

78,872 deployments

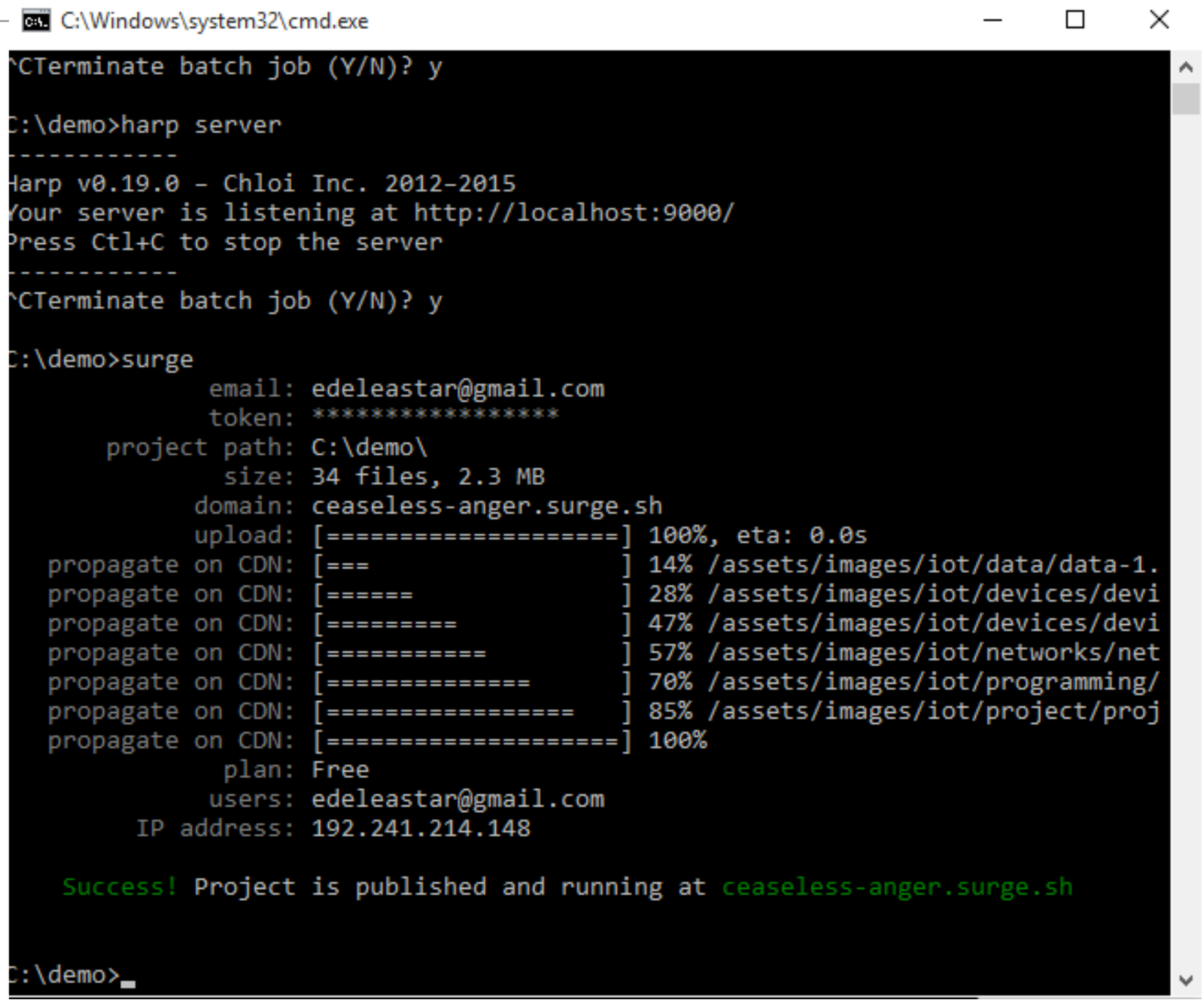
596.64 GB published

10,809 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

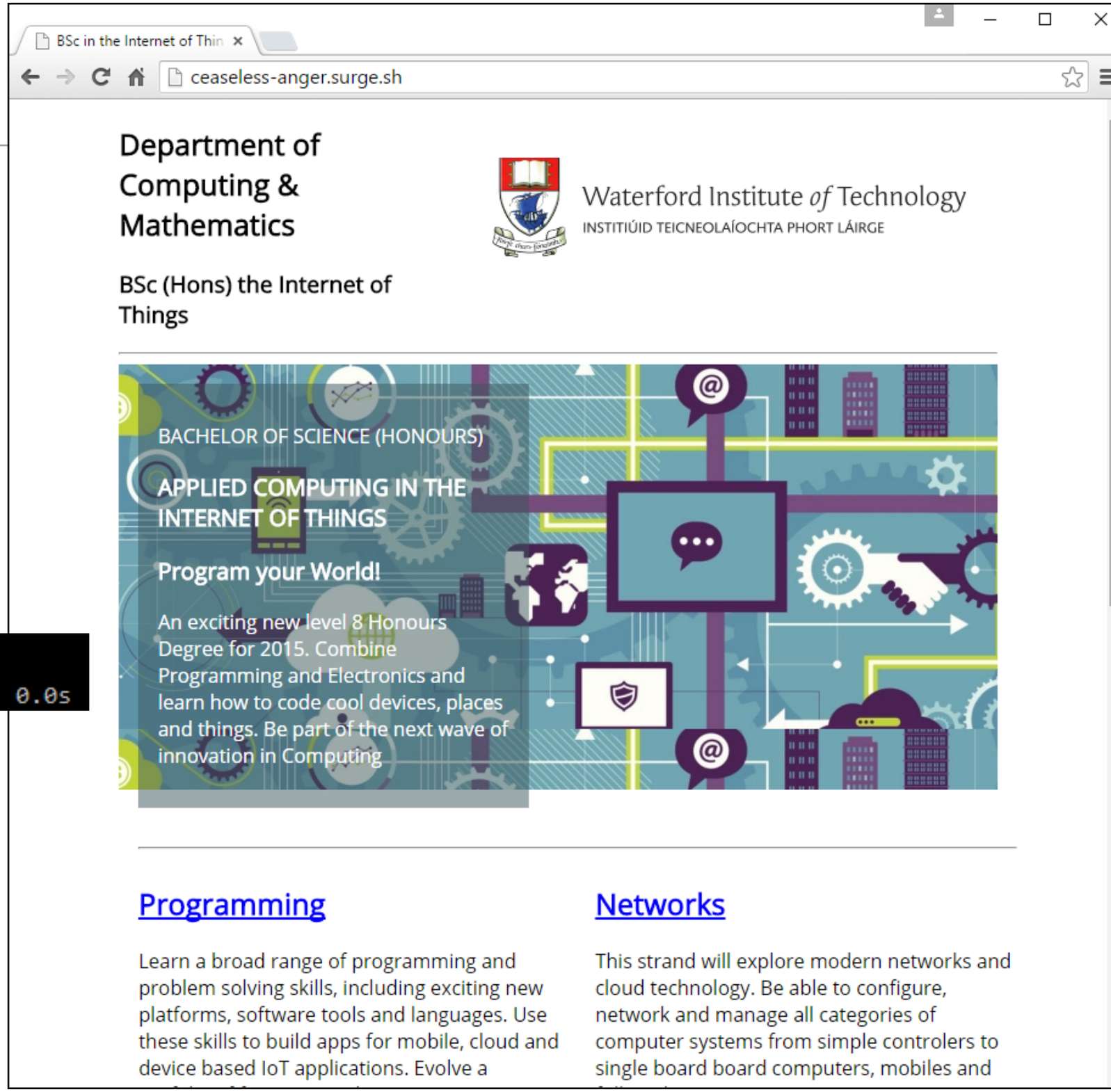


Dommain Name

- You can change part of the domain name before publishing

```
  size: 34 files, 2.3 MB
domain: ceaseless-anger.surge.sh
upload: [====================] 100%, eta: 0.0s
```

- Must end in surge.sh (for free service)



Pricing

Surge is free to use.
Upgrade your project 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 Plus

For professional front-end projects

only **$13**/MO.
PER PROJECT

- Unlimited publishing
- Custom domain
- Custom SSL
- Force HTTP to HTTPS
- Cross-Origin Resource Sharing
- Custom redirects
- Password protection
- Stats & Insights SOON

Upgrade to Surge Plus