

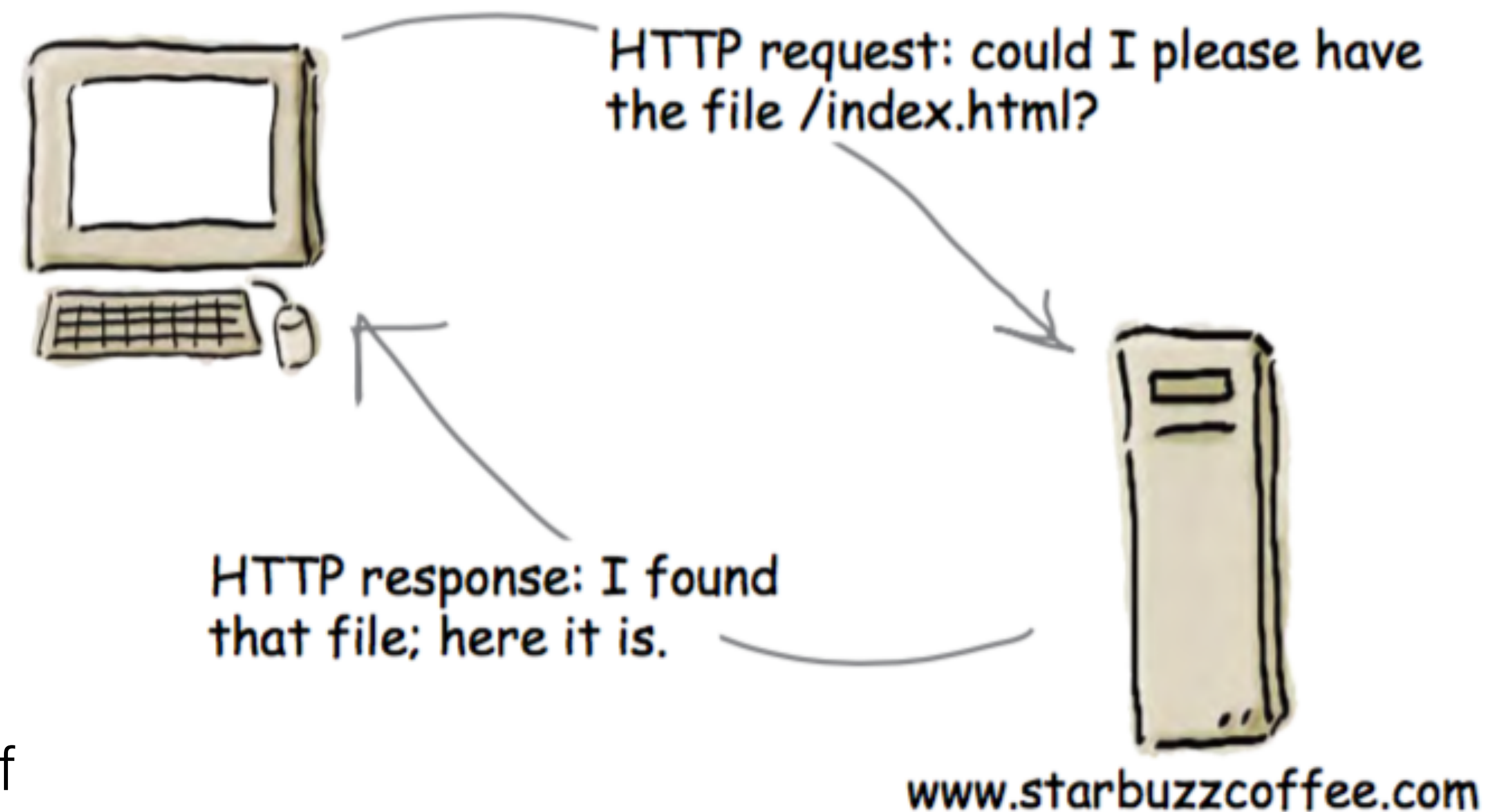
Eleventy & Netlify



command prompt · node ·
eleventy · netlify

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



11ty

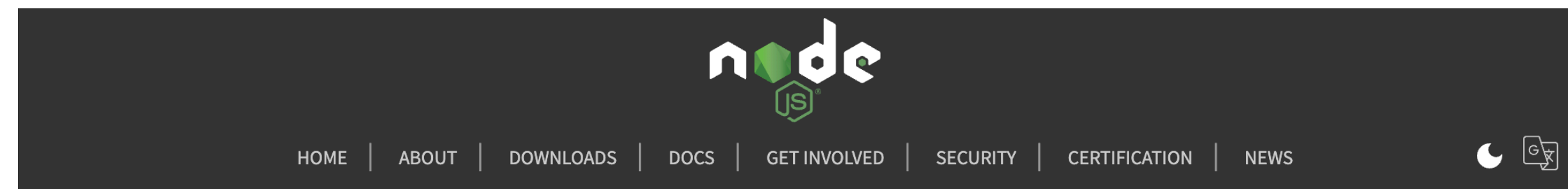


Eleventy, a simpler static site generator.

- For professional web site development, you need a local web server. Otherwise, the site you develop will not be sufficiently tested.
- 11ty is a web server you can run on your own computer.
- It behaves exactly like a web server used by a hosting company
- In addition, 11ty provides Templates, Layouts & Partials + a range for other productivity features

Installing 11ty

- On your own machine:
- First install Node.js
- Then Install 11ty



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

Download for macOS (x64)

16.14.0 LTS

Recommended For Most Users

17.5.0 Current

Latest Features

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

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



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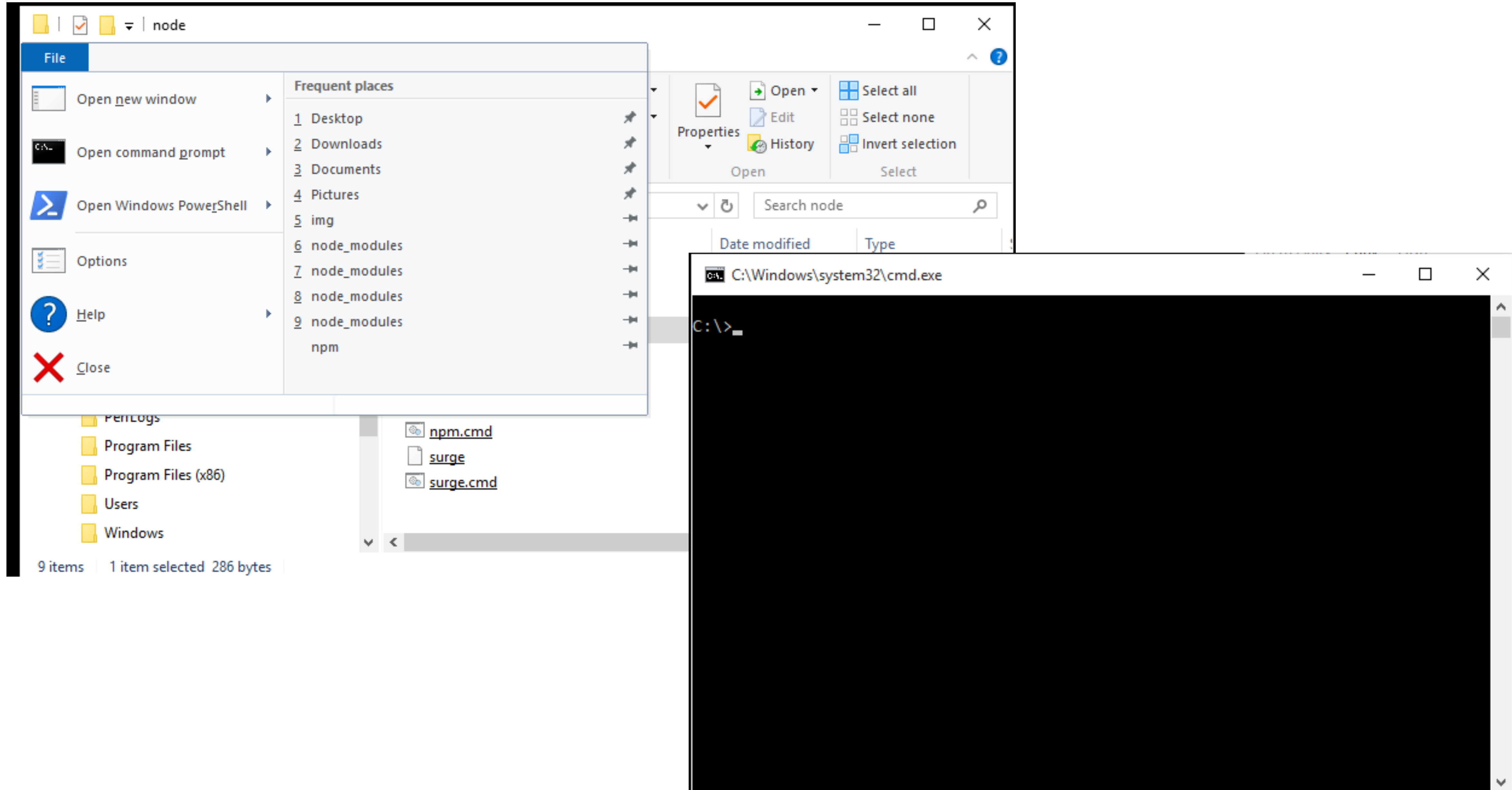
[Guidelines of the OpenJS Foundation](#).

[Node.js Project Licensing Information](#).

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- [Report website issue](#)
- [Get Help](#)
- [Contributing For Nodejs.org](#)

```
npm install -g @11ty/eleventy
```

Run a Command Prompt




```
npm install -g @11ty/eleventy
```

You will see something like this in the shell:

```
npm WARN deprecated debug@4.1.1: Debug versions >=3.2.0 <3.2.7 || >=4 <4.3.1 have a  
npm WARN deprecated debug@4.1.1: Debug versions >=3.2.0 <3.2.7 || >=4 <4.3.1 have a  
npm WARN deprecated debug@4.1.1: Debug versions >=3.2.0 <3.2.7 || >=4 <4.3.1 have a  
  
added 2 packages, changed 347 packages, and audited 350 packages in 10s  
  
25 packages are looking for funding  
  run `npm fund` for details  
  
3 high severity vulnerabilities  
  
To address all issues (including breaking changes), run:  
  npm audit fix --force  
  
Run `npm audit` for details.
```

To check that it was installed correctly, enter the following:

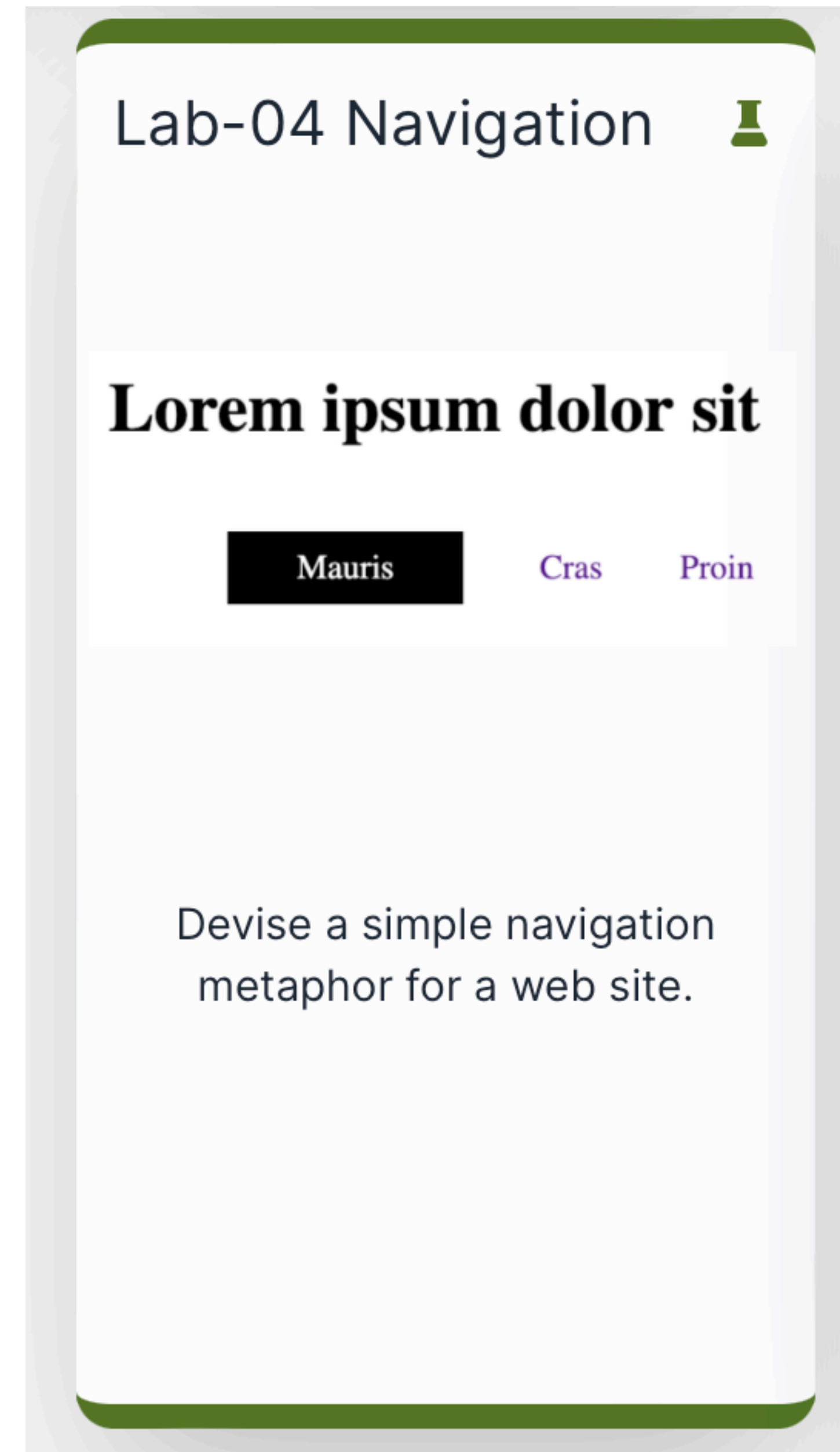
```
eleventy --version
```

It should return with:

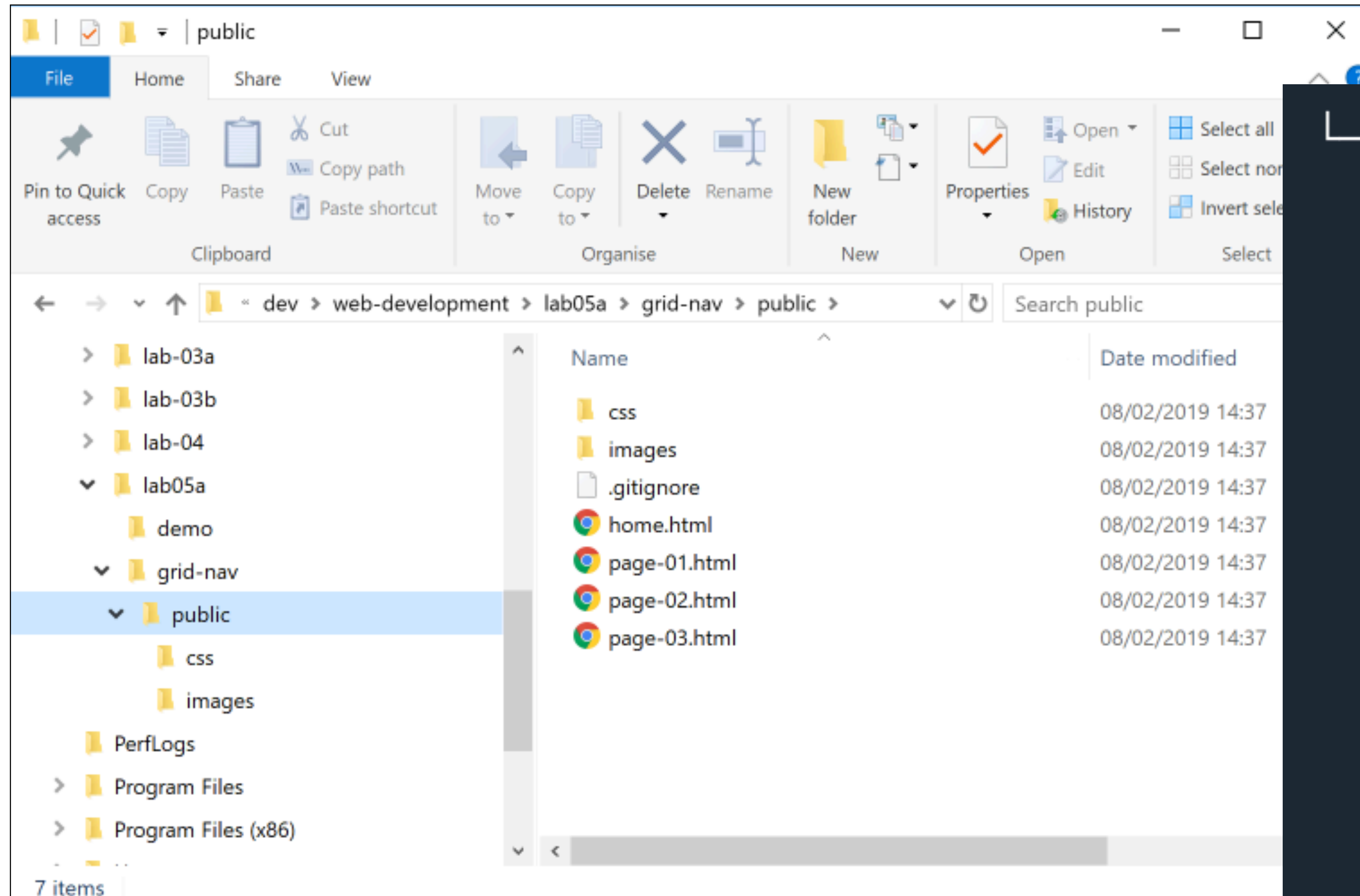
```
1.0.0
```

- Install by running a command.
- This installs a new command, which you use to run eleventy

Serve the site from Lab-04 Navigation



Expand the lab04 project
zip file



```
└─ lab-05a
   └─ css
      └─ grid.css
      └─ home.css
      └─ image.css
      └─ nav.css
   └─ index.html
   └─ images
      └─ placeholder.png
   └─ package.json
   └─ page-01.html
   └─ page-02.html
   └─ page-03.html
```


Launching the Eleventy Web Server

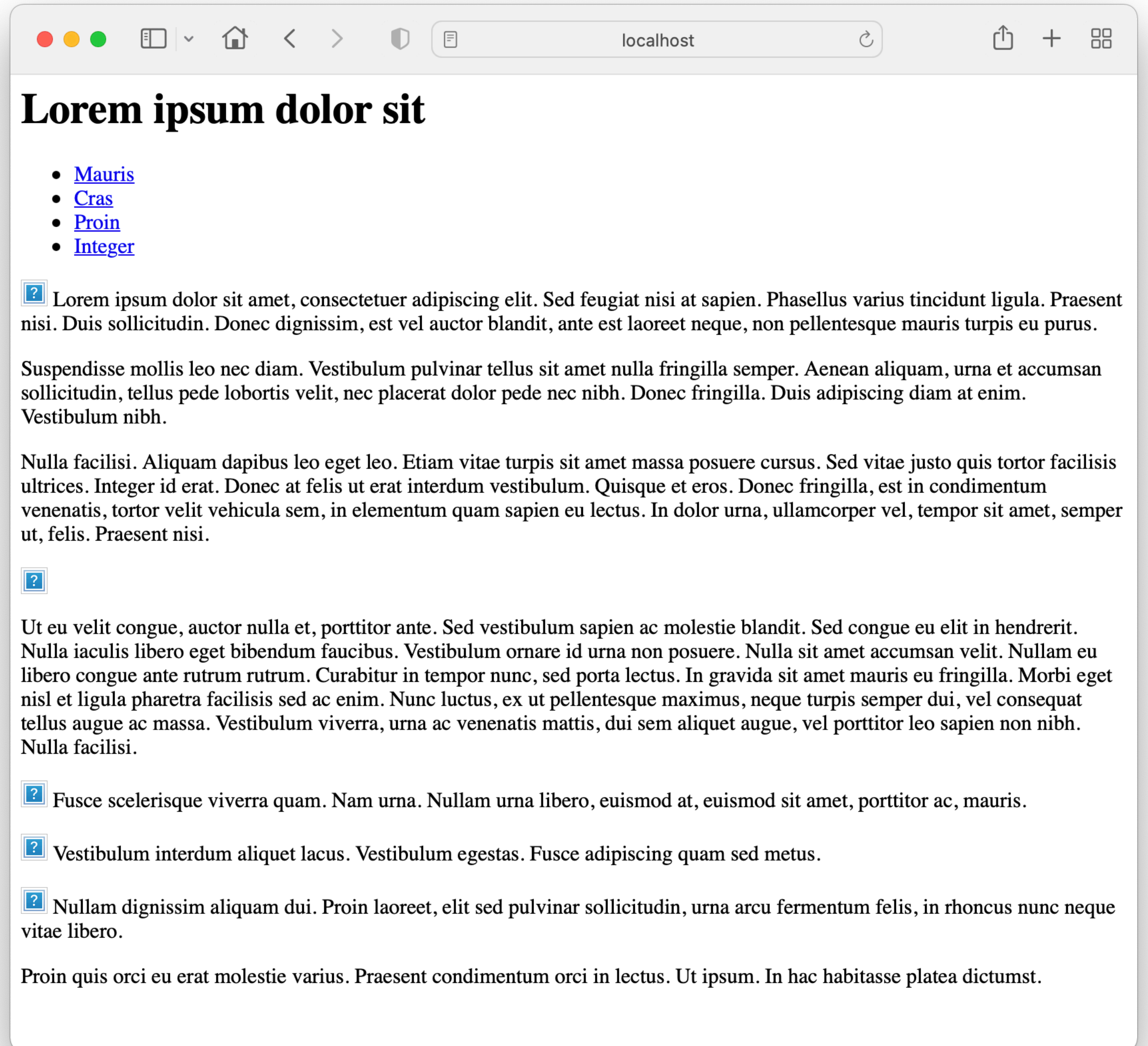
Enter this command
from shell

```
eleventy --serve
```

Systems responds
with this log

```
[11ty] Writing _site/index.html from ./index.html (liquid)
[11ty] Writing _site/page-02/index.html from ./page-02.html (liquid)
[11ty] Writing _site/page-01/index.html from ./page-01.html (liquid)
[11ty] Writing _site/page-03/index.html from ./page-03.html (liquid)
[11ty] Wrote 4 files in 0.23 seconds (v1.0.0)
[11ty] Watching...
[Browsersync] Access URLs:
-----
    Local: http://localhost:8081
  External: http://192.168.1.90:8081
-----
[Browsersync] Serving files from: _site
```

- Browse to this url:
- `http://localhost:8081`
- The page should open, however it will still be 'broken' - no styles and no links.



package.json

```
{
  "name": "lab05a",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}
```

.eleventy.js:

```
module.exports = function(eleventyConfig) {
  eleventyConfig.addPassthroughCopy("css");
  eleventyConfig.addPassthroughCopy("images");
};
```

Configure an 11ty Project

- Two configuration files required
- Their contents are JSON/ Javascript format.
- These may be tweaked very occasionally

Additional Project Adjustments: Paths

```

```



```

```

- Replace all relative paths with absolute paths

Additional Project Adjustments: Links

- Simplify links + reset to absolute paths

```
<div id="navigation">
  <ul id="menu">
    <li class="active"><a href="index.html">Mauris</a></li>
    <li><a href="page-01.html">Cras</a></li>
    <li><a href="page-02.html">Proin</a></li>
    <li><a href="page-03.html">Integer</a></li>
  </ul>
</div>
```

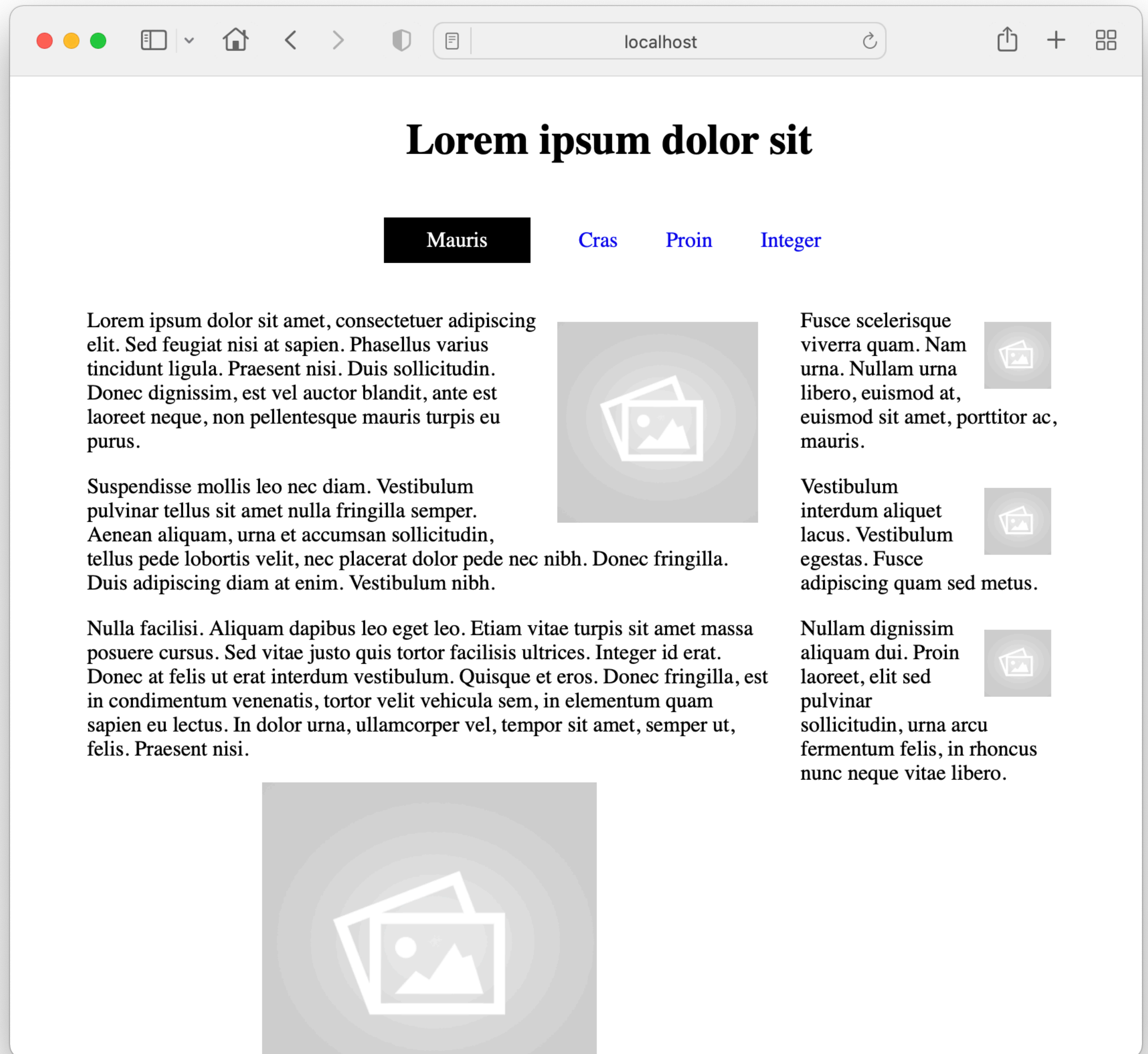


```
<div id="navigation">
  <ul id="menu">
    <li class="active"><a href="/">Mauris</a></li>
    <li><a href="/page-01">Cras</a></li>
    <li><a href="/page-02">Proin</a></li>
    <li><a href="/page-03">Integer</a></li>
  </ul>
</div>
```


eleventy — server

```
node
Eamonn-MacBook-Pro-2:grid-layout-lab.05.end edeleastar$ eleventy --serve
[11ty] Writing _site/index.html from ./index.html (liquid)
[11ty] Writing _site/page-01/index.html from ./page-01.html (liquid)
[11ty] Writing _site/page-03/index.html from ./page-03.html (liquid)
[11ty] Writing _site/page-02/index.html from ./page-02.html (liquid)
[11ty] Copied 5 files / Wrote 4 files in 0.06 seconds (v1.0.0)
[11ty] Watching...
[Browsersync] Access URLs:
-----
Local: http://localhost:8080
External: http://192.168.1.26:8080
-----
[Browsersync] Serving files from: _site
```

- As you edit the files, the server will automatically regenerate the site



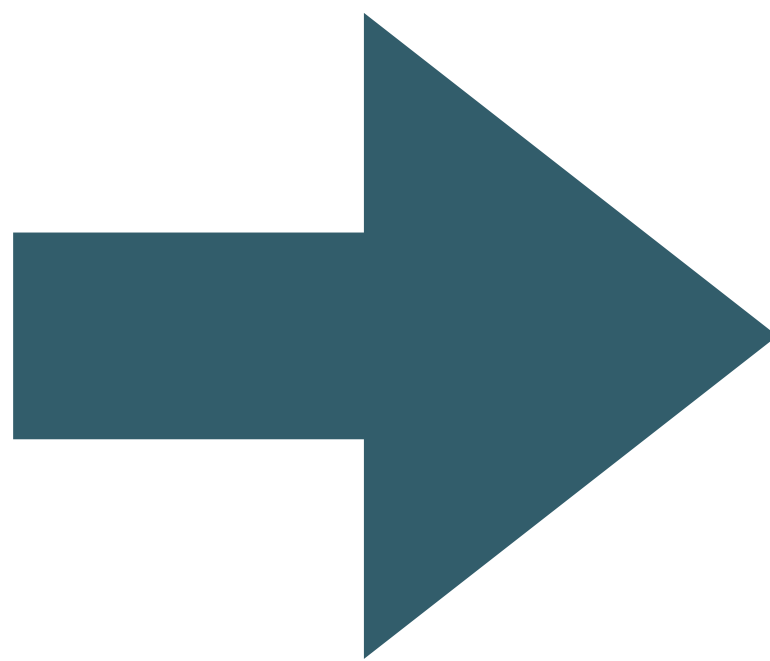
```
└─ lab-05a
   └─ css
       ├── grid.css
       ├── home.css
       ├── image.css
       └─ nav.css
   ├── index.html
   ├── images
   │   └─ placeholder.png
   ├── package.json
   ├── page-01.html
   ├── page-02.html
   └─ page-03.html
```

- Running 'eleventy' command will generate a version of the site to a **_site** folder inside the project

```
└─ _site
   ├── css
   │   ├── grid.css
   │   ├── home.css
   │   ├── image.css
   │   └─ nav.css
   ├── images
   │   └─ placeholder.png
   ├── index.html
   ├── page-01
   │   └─ index.html
   ├── page-02
   │   └─ index.html
   └─ page-03
       └─ index.html
```

- This is generated by eleventy, you should not edit or modify this subfolder in any way.
- Every time you modify the main folder, this is regenerated by eleventy

_site folder



Deployment : Netlify



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Build the future of the web

Netlify unites an entire ecosystem of modern tools and services into a single, simple workflow for building high performance sites and apps.

Get started for free

Questions? Talk to an expert →



Welcome to Netlify

Sign up with one of the following:

 GitHub

 GitLab

 Bitbucket

Email



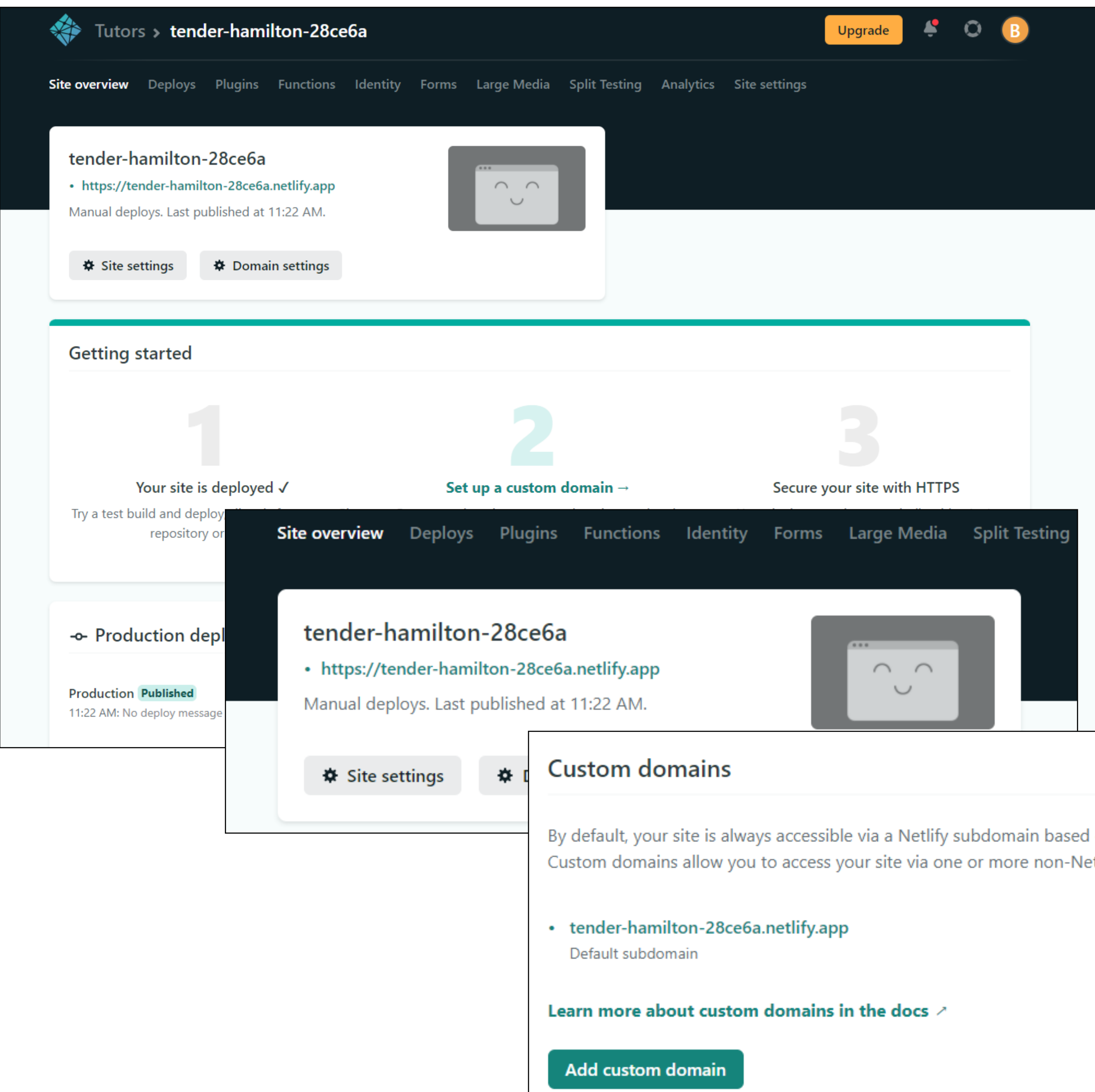
"We've moved all of our static sites and apps to Netlify. It's an indispensable tool in our toolchain. Every time we are able to dream up a new feature we need from a static host, Netlify has it."

KYLE MACDONALD, CTO, CARROT CREATIVE

- Drag & Drop the _site folder to Netlify browser window

```
—_site
├── css
│   ├── grid.css
│   ├── home.css
│   ├── image.css
│   └── nav.css
├── images
│   └── placeholder.png
├── index.html
├── page-01
│   └── index.html
├── page-02
│   └── index.html
└── page-03
    └── index.html
```

The screenshot shows the Netlify Tutors dashboard for a 'Starter' plan. The top navigation bar includes links for Team overview, Sites, Builds, Plugins, Domains, Members, Audit log, Billing, and Team settings. The main content area displays the current billing period (Sep 21 to Oct 21) and a welcome message. Below this, there are four metrics: Bandwidth used (0 KB/100 GB), Build minutes used (0/300), Concurrent builds (0/1), and Members (1). A large dashed box in the center of the page is intended for dragging and dropping a site output folder. To the right of this box is a button labeled 'New site from Git'. The text inside the dashed box reads: 'Want to deploy a new site without connecting to Git? Drag and drop your site output folder here'.

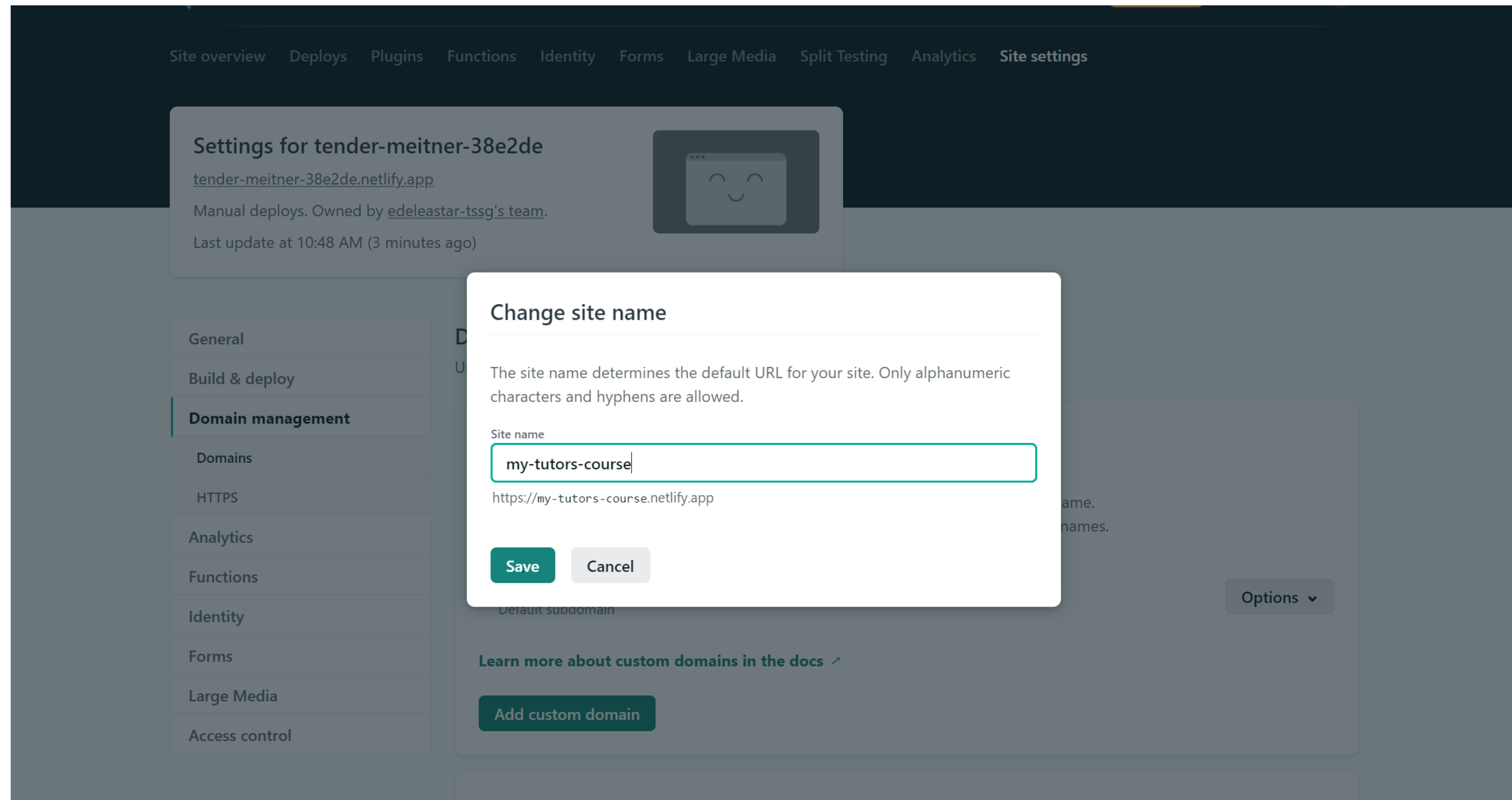


Deploy

- Once `_site` is dropped onto netlify, the website will be deployed globally

Customise Domain Name

- Edit and replace the generated name.
- Domain will end with **.netlify.app**



Eleventy & Netlify



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