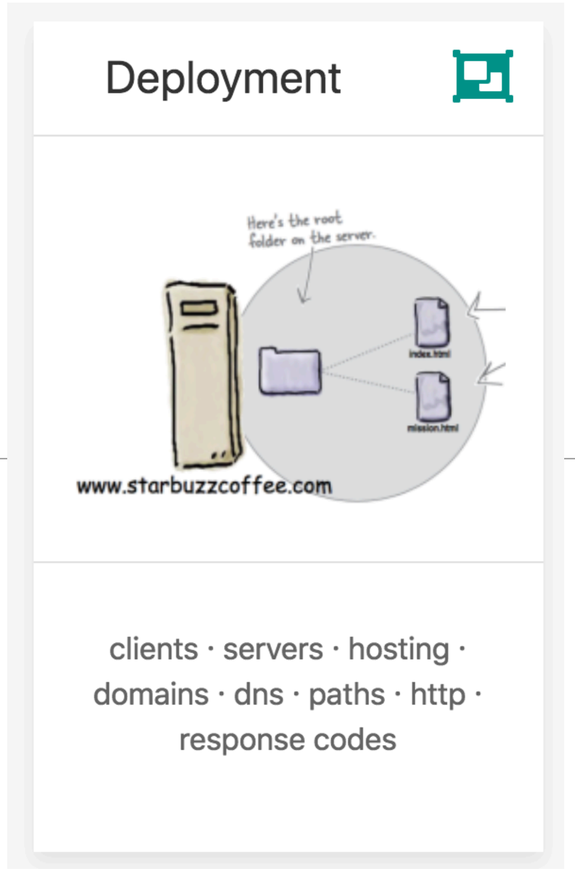
Deployment

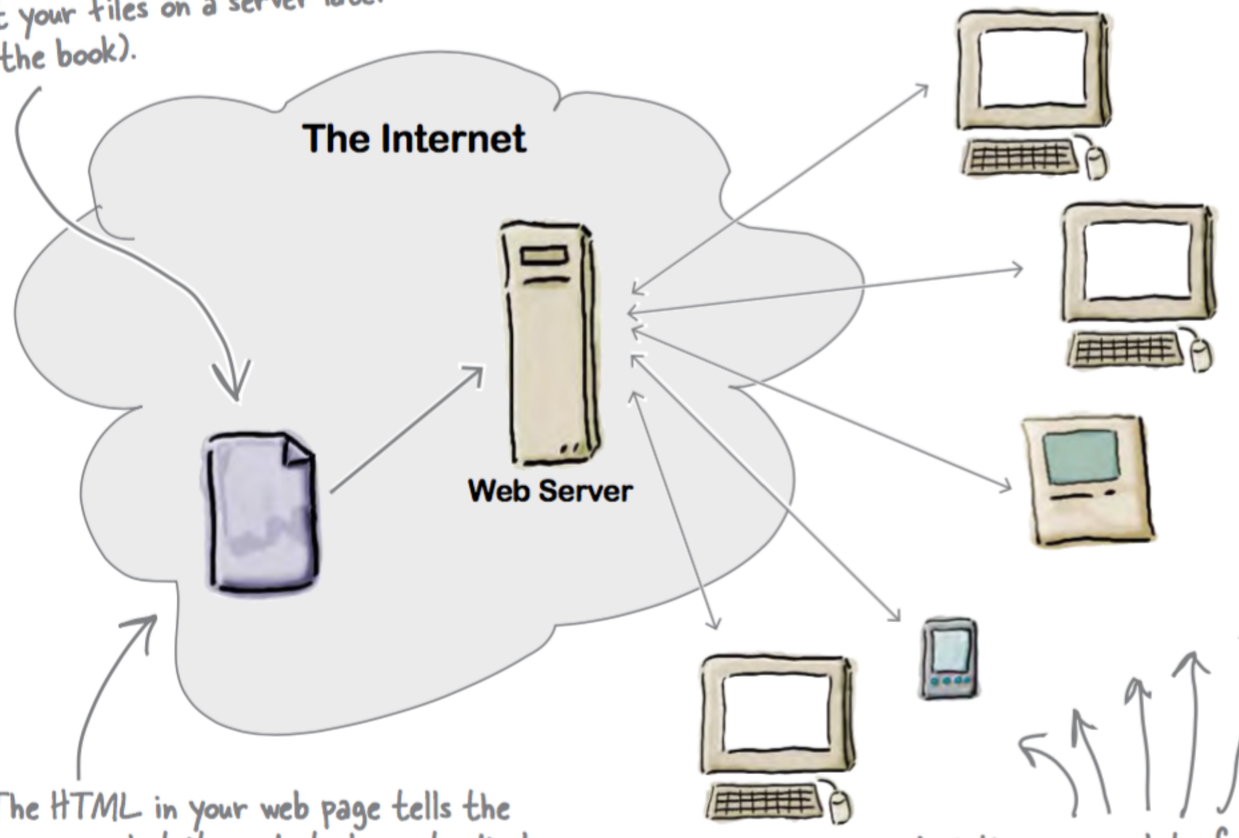

Deployment
Here's the root folder on the server.
index.html
mission.html
www.starbuzzcoffee.com
clients · servers · hosting · domains · dns · paths · http · response codes

Deployment Issues

- Clients & Servers
- Hosting Providers
- Domain Names
- Transferring the Sites Files
- HTTP
- Absolute & Relative Paths

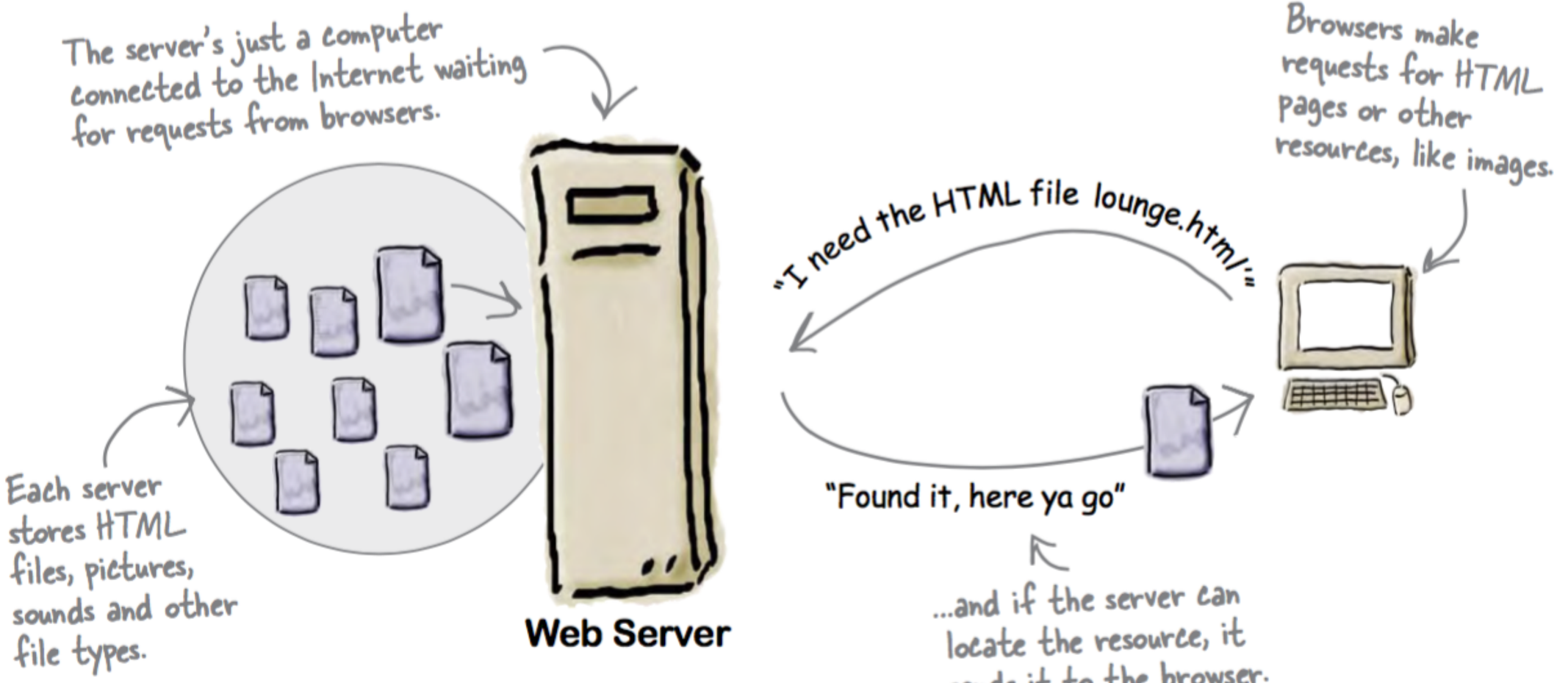
To make web pages, you create files written in the HyperText Markup Language (HTML for short) and place them on a web server (we'll talk about how to get your files on a server later in the book).

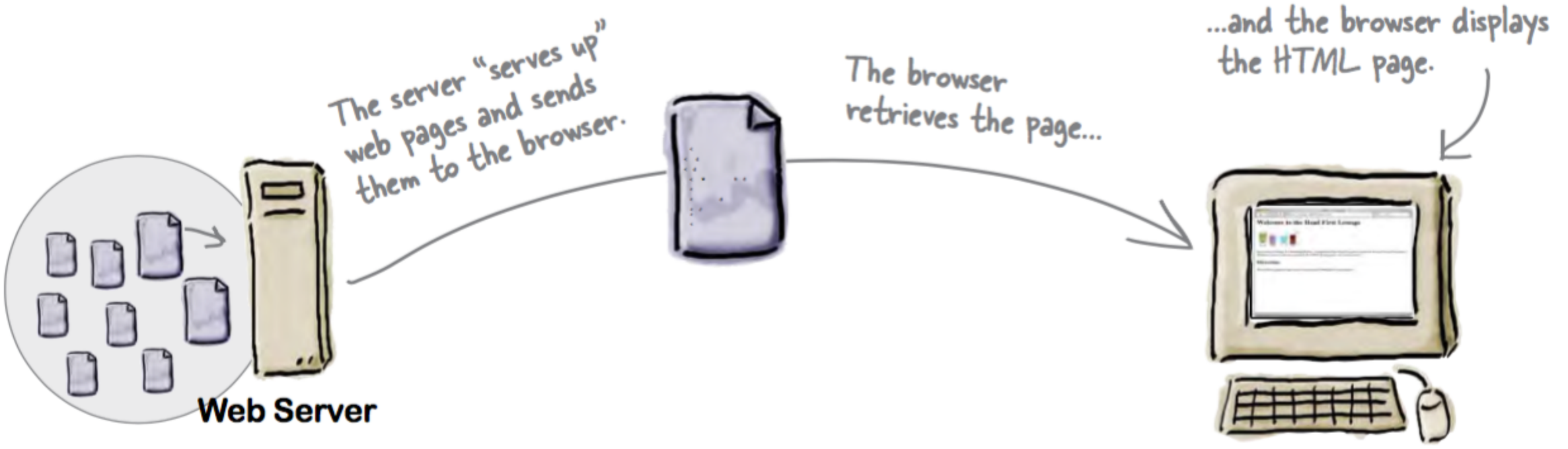
Once you've put your files on a web server, any browser can retrieve your web pages over the Internet.



The HTML in your web page tells the browser what it needs to know to display your page. And, if you've done your job well, your pages will even display well on cell phones and mobile devices, and work with speech browsers and screen magnifiers for the visually impaired.

And there are a lot of PCs and devices connected to the Internet all running web browsers. More importantly, there are friends, family, fans, and potential customers using those devices!


The server's just a computer connected to the Internet waiting for requests from browsers.
Browsers make requests for HTML pages or other resources, like images.
"I need the HTML file lounge.html"
Each server stores HTML files, pictures, sounds and other file types.
Web Server
"Found it, here ya go"
...and if the server can locate the resource, it sends it to the browser.


The server "serves up" web pages and sends them to the browser.
The browser retrieves the page...
...and the browser displays the HTML page.
Web Server

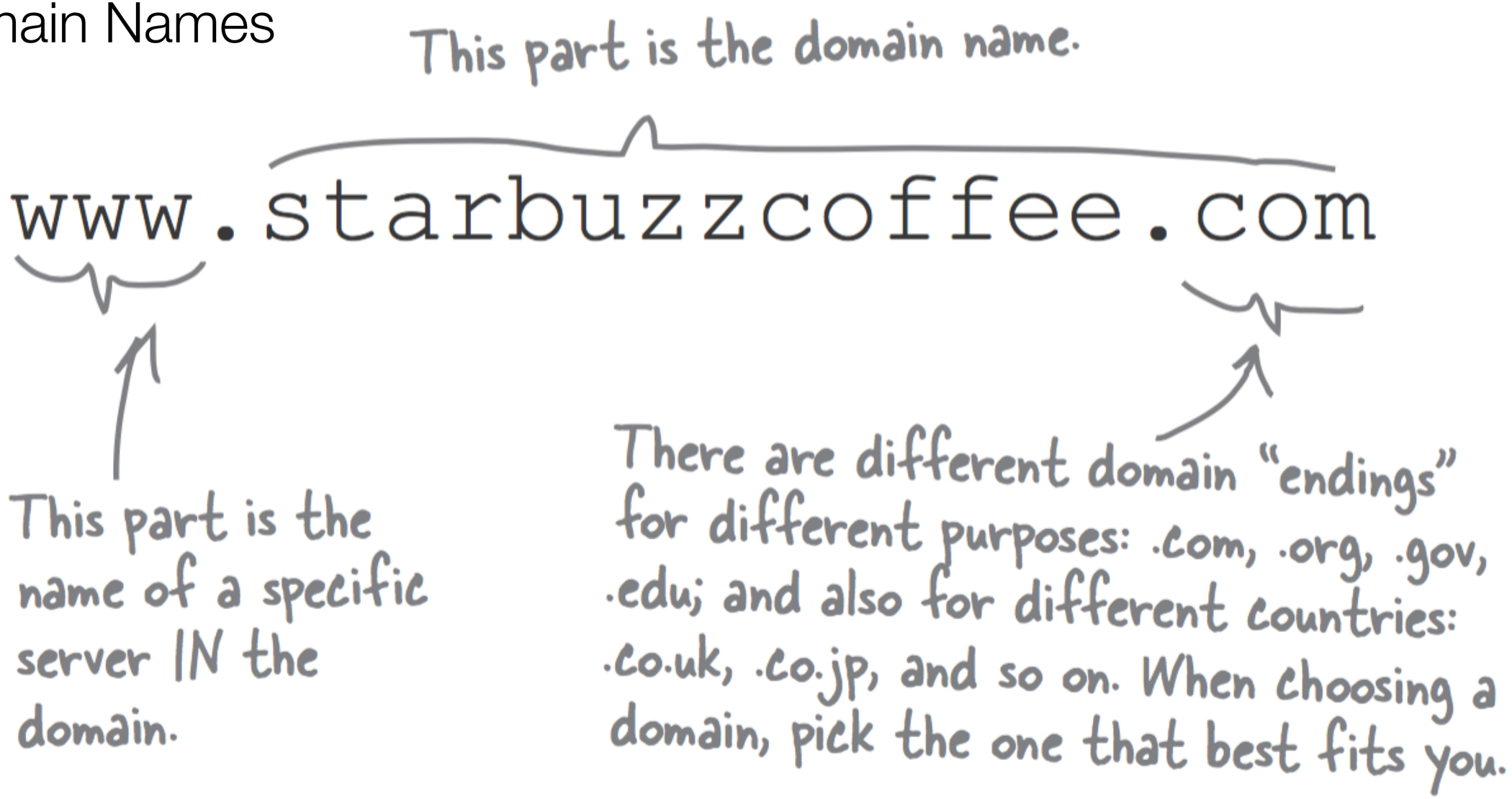
Hosting Company

- To get your pages on the Web, you need a server that actually lives on the Web full-time.
- Find a hosting company and let them worry about the details of keeping a server running.

Hosting Company Checklist

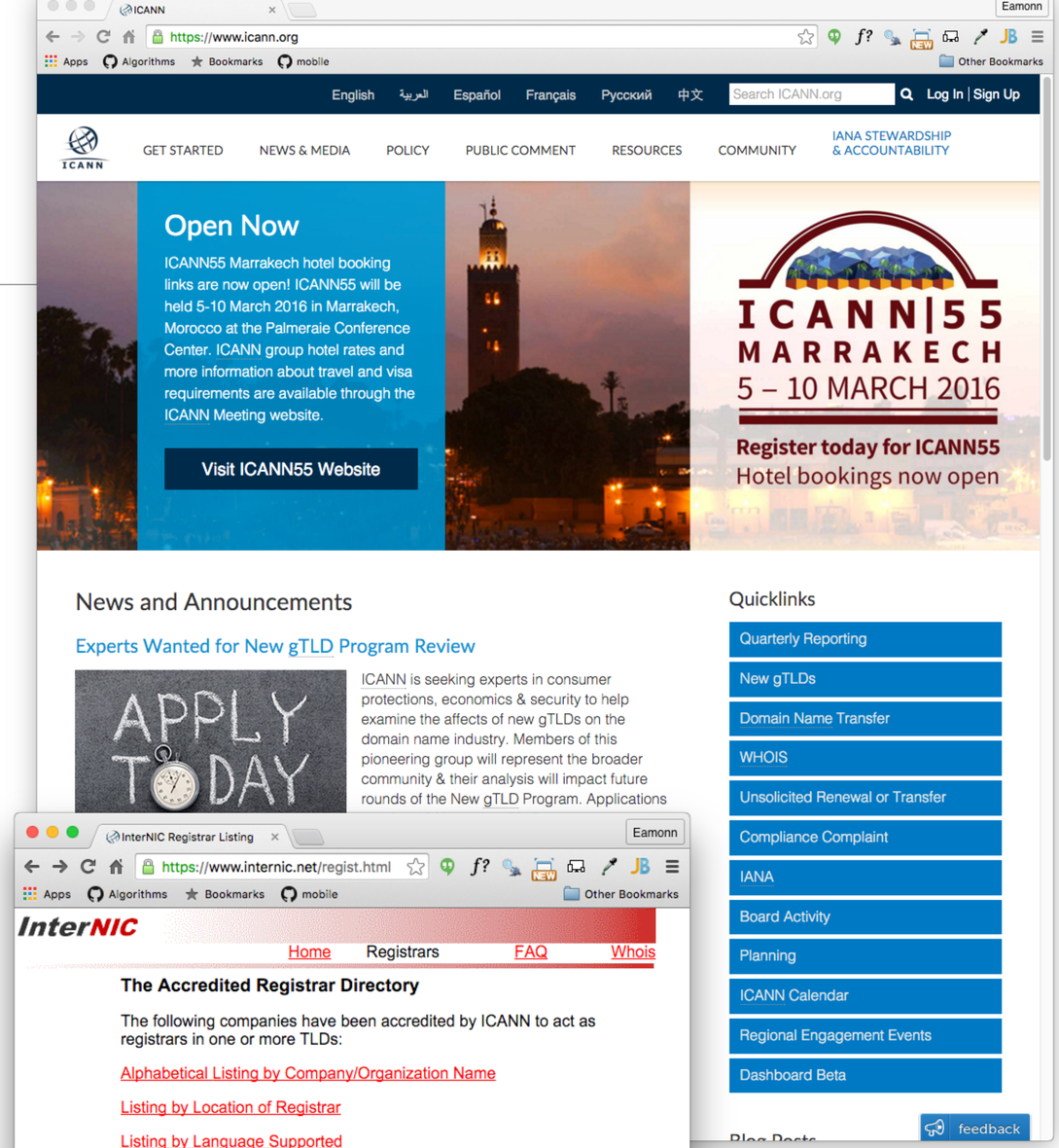
- **Technical support:** Does the hosting company have a good system for handling your technical questions?
- **Data transfer:** This is a measure of the amount of pages and data the hosting company will let you send to your visitors during a given month
- **Backups**: Does the hosting company regularly make a backup of your pages and data that can be recovered in the event that the server has a hardware failure?
- **Domain names:** Does the hosting company include a domain name in its pricing
- **Reliability**: Most hosting companies report keeping websites up 99% of the time or better.
- **Add-ons:** Does your package include other goodies such as email addresses, forums, or support for scripting languages

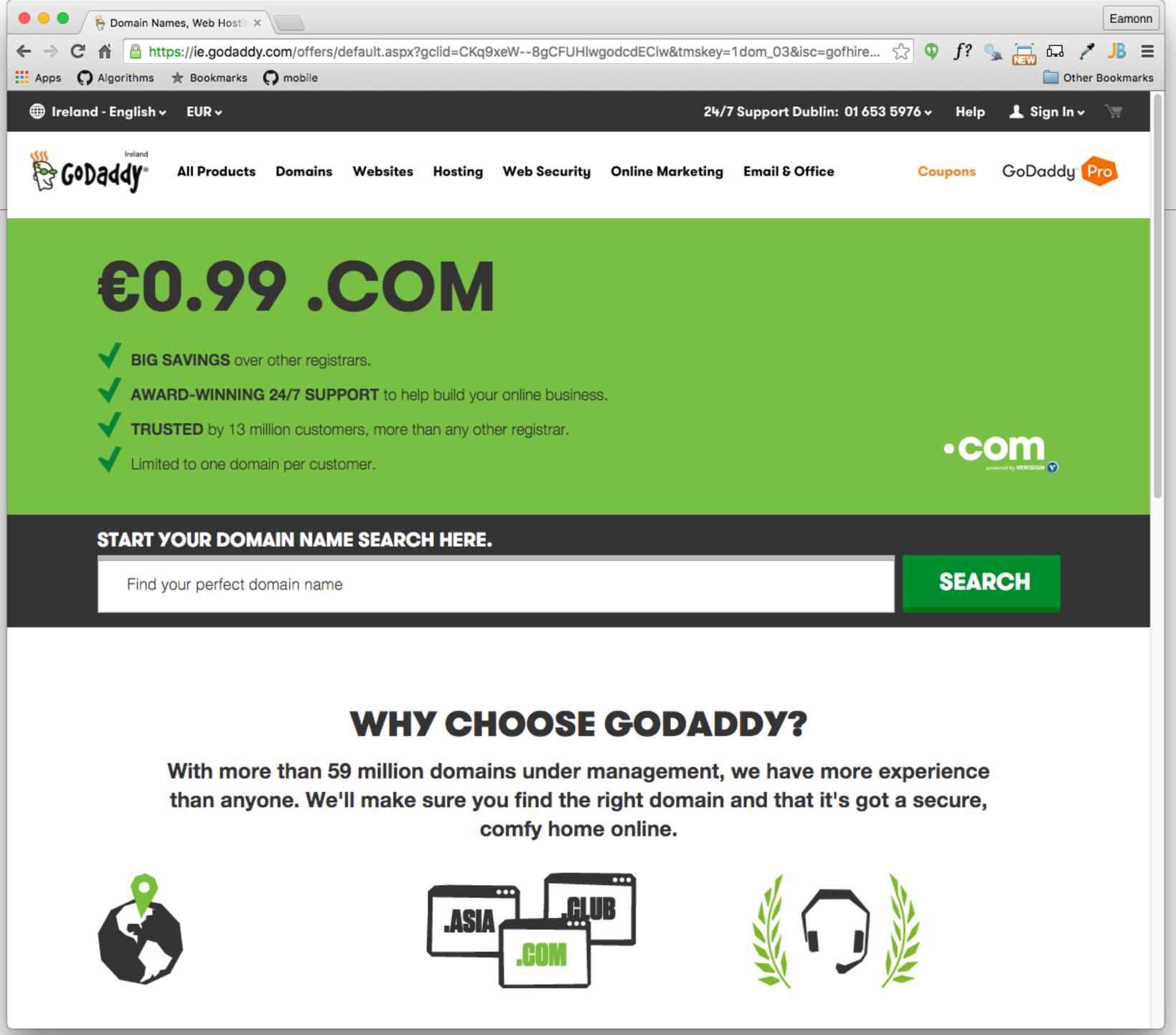
Domain Names

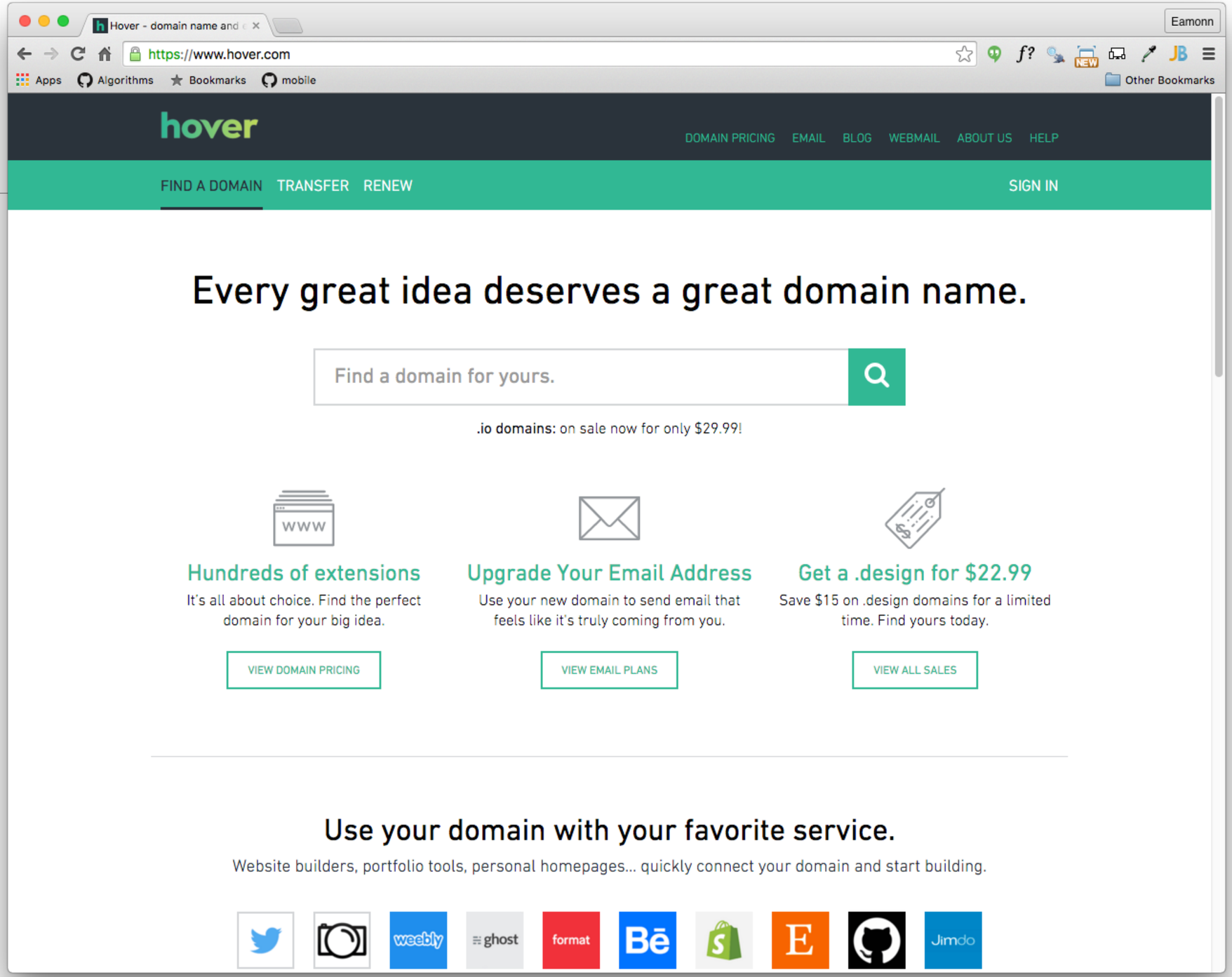


ICANN

- Domain names are controlled by a centralized authority (ICANN) to make sure that only one person at a time uses a domain name.
- Hosting Companies will often throw in your domain name registration with one of their package deals.
- Register of domain name registration companies:
  - https://www.internic.net/regist.html




Domain Names, Web Hosti
Eamonn
https://ie.godaddy.com/offers/default.aspx?gclid=CKq9xeW--8gCFUHlwgodcdECIw&tmskey=1dom_03&isc=gofhire...
Apps
Algorithms
Bookmarks
mobile
Other Bookmarks
Ireland - English
EUR
24/7 Support Dublin: 01 653 5976
Help
Sign In
Ireland
GoDaddy
All Products
Domains
Websites
Hosting
Web Security
Online Marketing
Email & Office
Coupons
GoDaddy Pro
€0.99 .COM
BIG SAVINGS over other registrars.
AWARD-WINNING 24/7 SUPPORT to help build your online business.
TRUSTED by 13 million customers, more than any other registrar.
Limited to one domain per customer.
.com
START YOUR DOMAIN NAME SEARCH HERE.
Find your perfect domain name
SEARCH
WHY CHOOSE GODADDY?
With more than 59 million domains under management, we have more experience than anyone. We'll make sure you find the right domain and that it's got a secure, comfy home online.
.ASIA
.CLUB
.COM


Hover - domain name and
Eamonn
https://www.hover.com
Apps
Algorithms
Bookmarks
mobile
Other Bookmarks
hover
DOMAIN PRICING
EMAIL
BLOG
WEBMAIL
ABOUT US
HELP
FIND A DOMAIN
TRANSFER
RENEW
SIGN IN
Every great idea deserves a great domain name.
Find a domain for yours.
.io domains: on sale now for only $29.99!
www
Hundreds of extensions
It's all about choice. Find the perfect domain for your big idea.
VIEW DOMAIN PRICING
Upgrade Your Email Address
Use your new domain to send email that feels like it's truly coming from you.
VIEW EMAIL PLANS
Get a .design for $22.99
Save $15 on .design domains for a limited time. Find yours today.
VIEW ALL SALES
Use your domain with your favorite service.
Website builders, portfolio tools, personal homepages... quickly connect your domain and start building.
weebly
ghost
format
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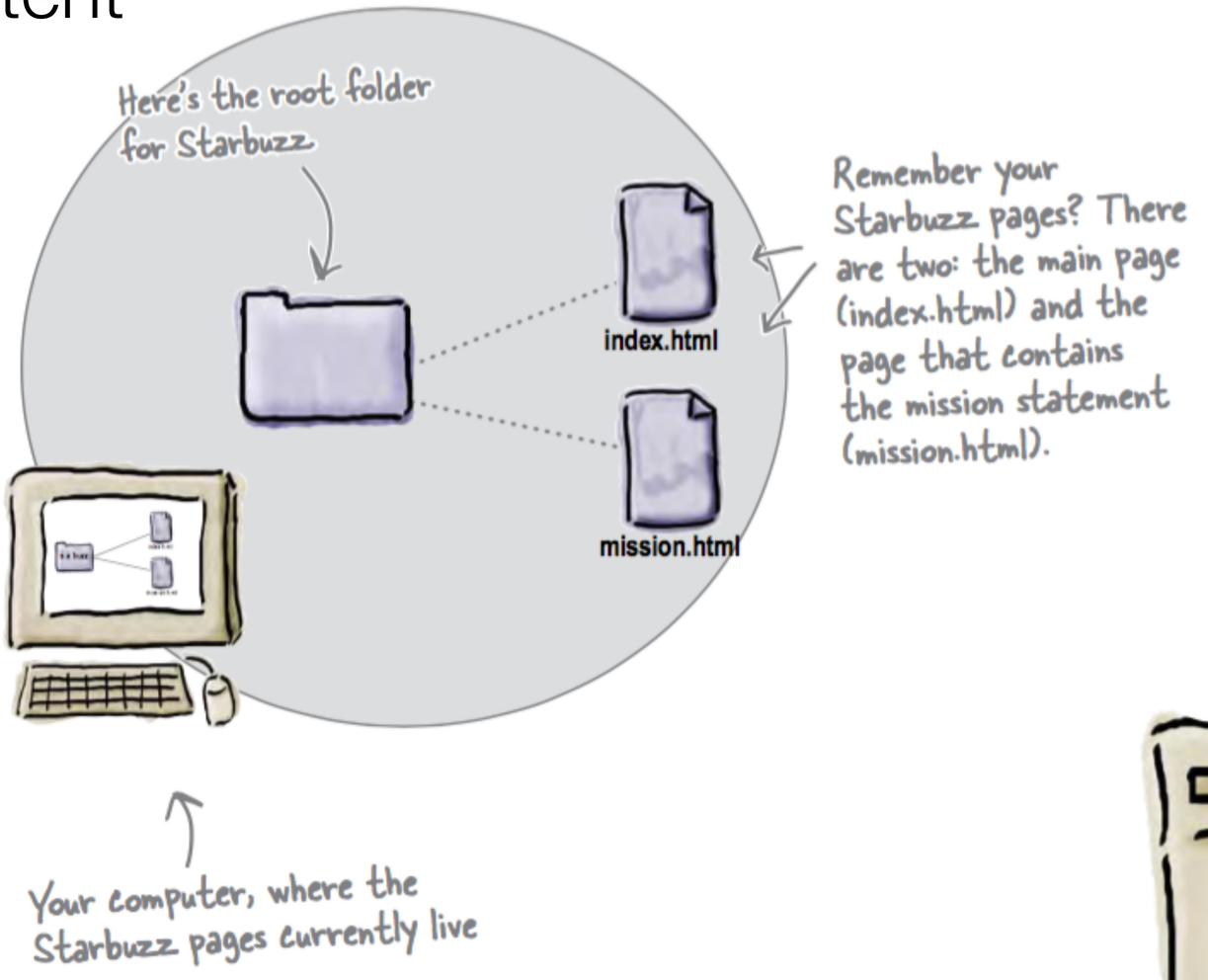
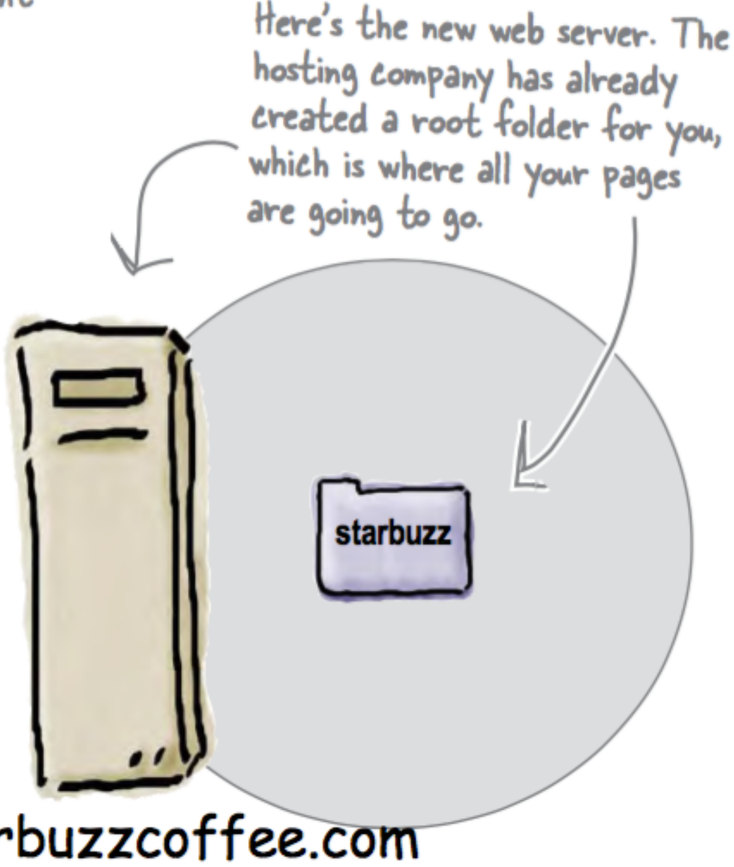
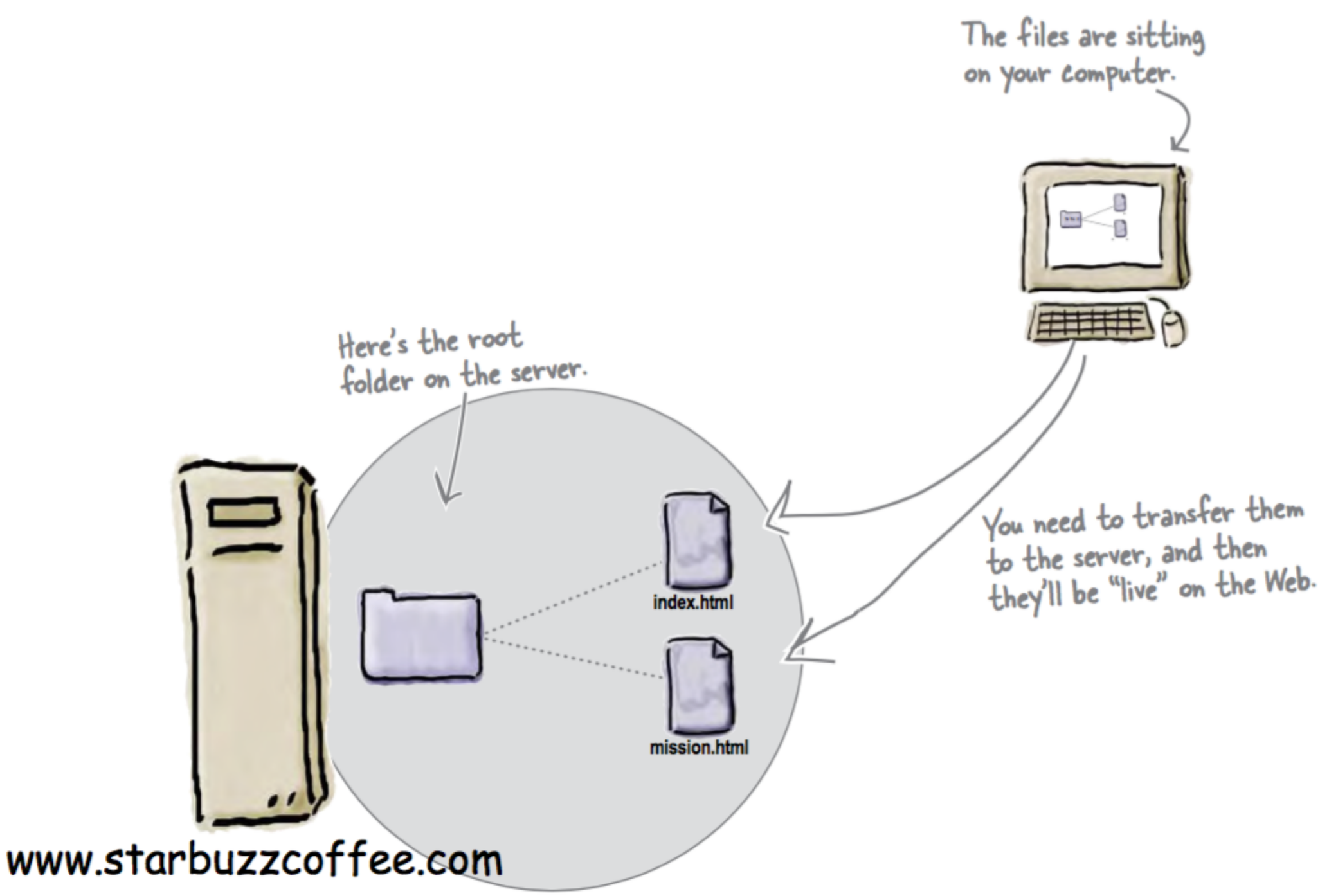
Jimdo

Moving Content





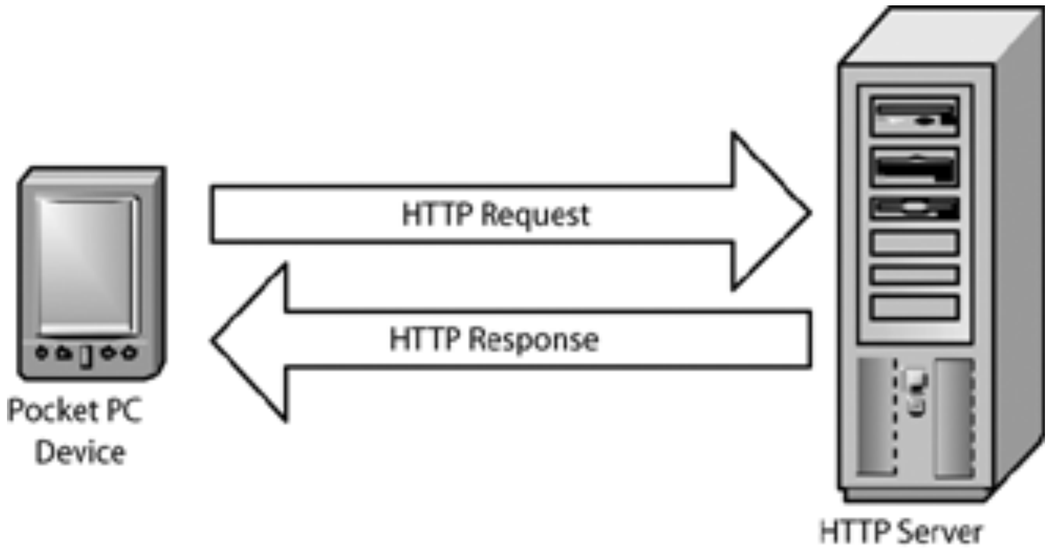

The files are sitting on your computer.
Here's the root folder on the server.
index.html
mission.html
You need to transfer them to the server, and then they'll be "live" on the Web.
www.starbuzzcoffee.com

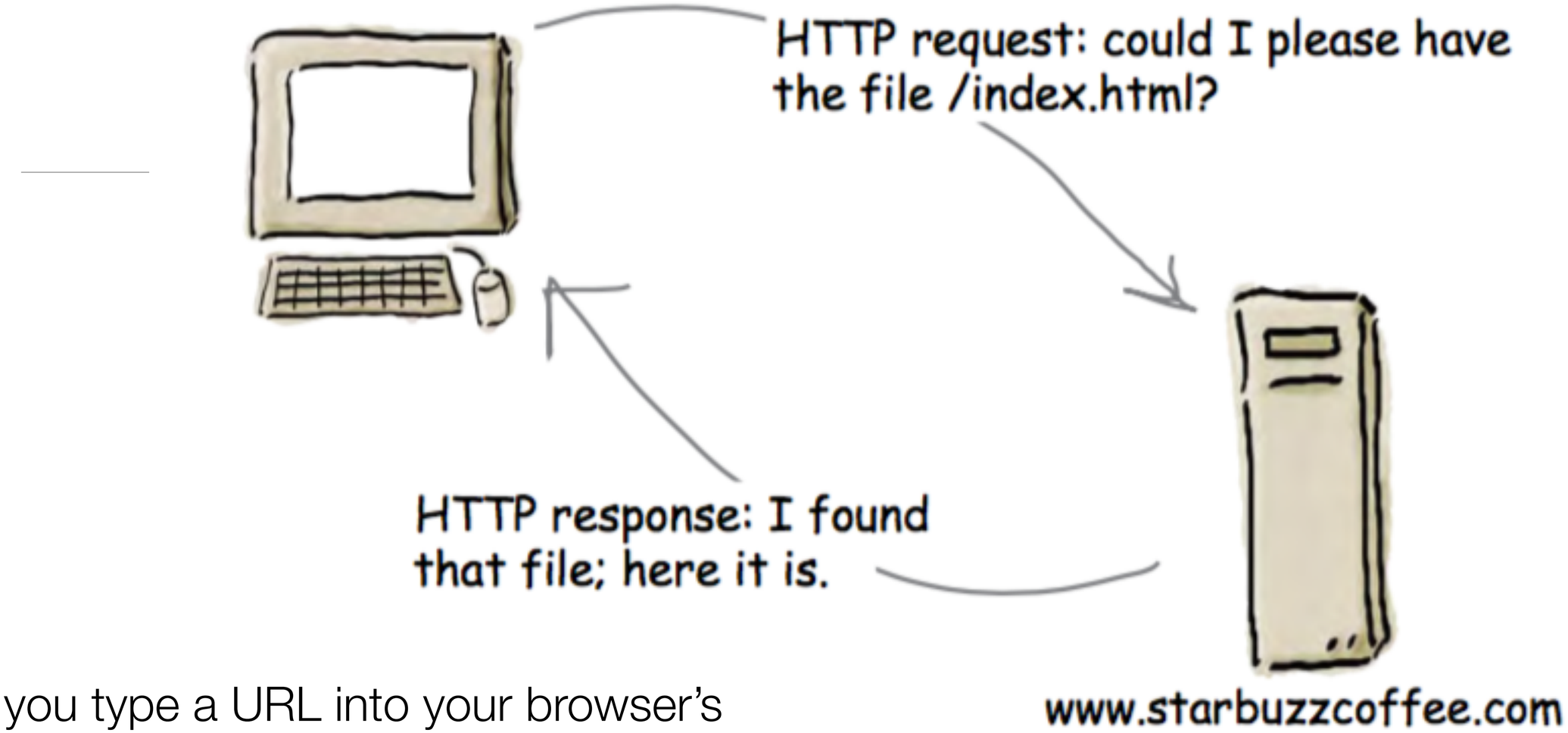
Transferring Files

- Many Different Options:
  - FTP
  - Dropbox
  - WebDav
  - Git Push
  - Email Attachments
  - Etc…

HyperText Transfer Protocol - HTTP

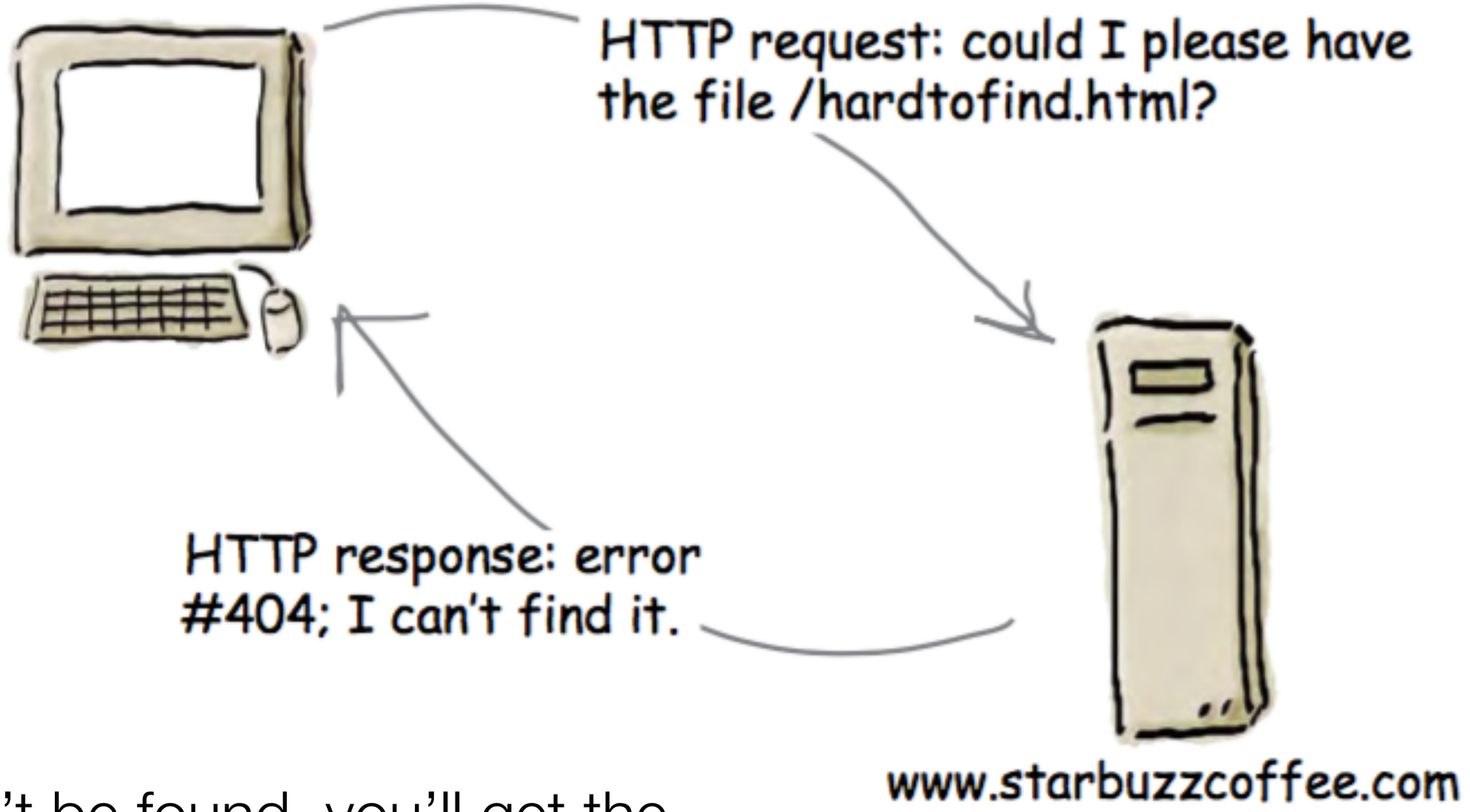
- One Deployed - the site will be ‘served’ over HTTP to client browsers
- An agreed-upon method (a protocol) for transferring hypertext documents around the Web.
- While “hypertext documents” are usually just HTML pages, the protocol can also be used to transfer images, or any other file that a web page might need.





- Each time you type a URL into your browser's address bar, the browser asks the server for the corresponding resource using the HTTP protocol.

- If the server finds the resource, it returns it to the browser and the browser displays it

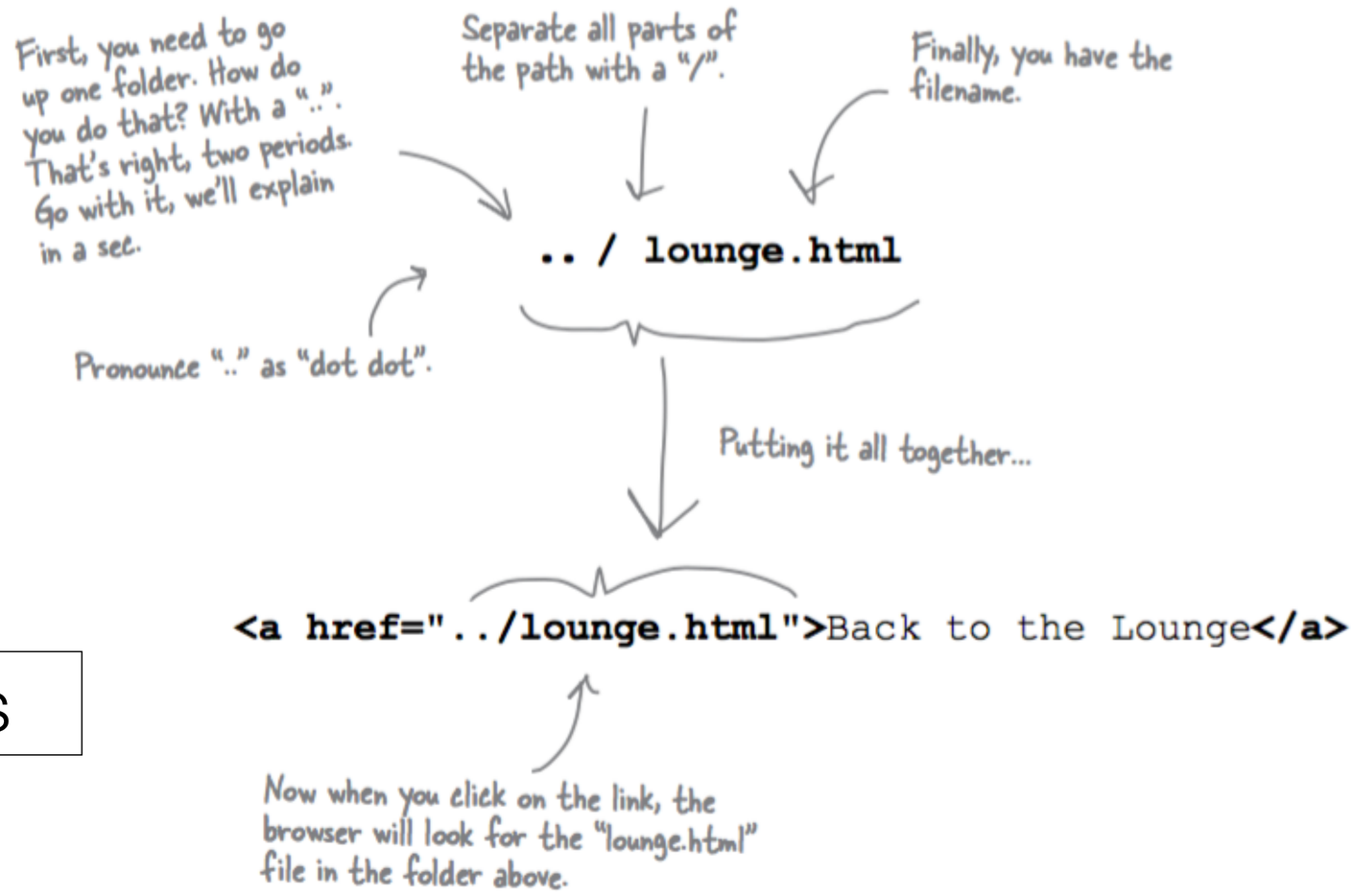


- If the resource can't be found, you'll get the familiar "404 Error," which the server reports back to your browser.

Absolute & Relative Paths

- A Path is a series of folder or folders that specify a route to a specific file within a given folder tree structure.
  - An Absolute path always starts at the ‘root’, which is always denoted by the **/** symbol
- A Relative path traces a route from the current director to a specific file. I may comment with:
  - **.** *start at the current directory*
  - **..** g*o up one level*
  - folder-name - *start with the ‘folder-name’ in the current directory.*

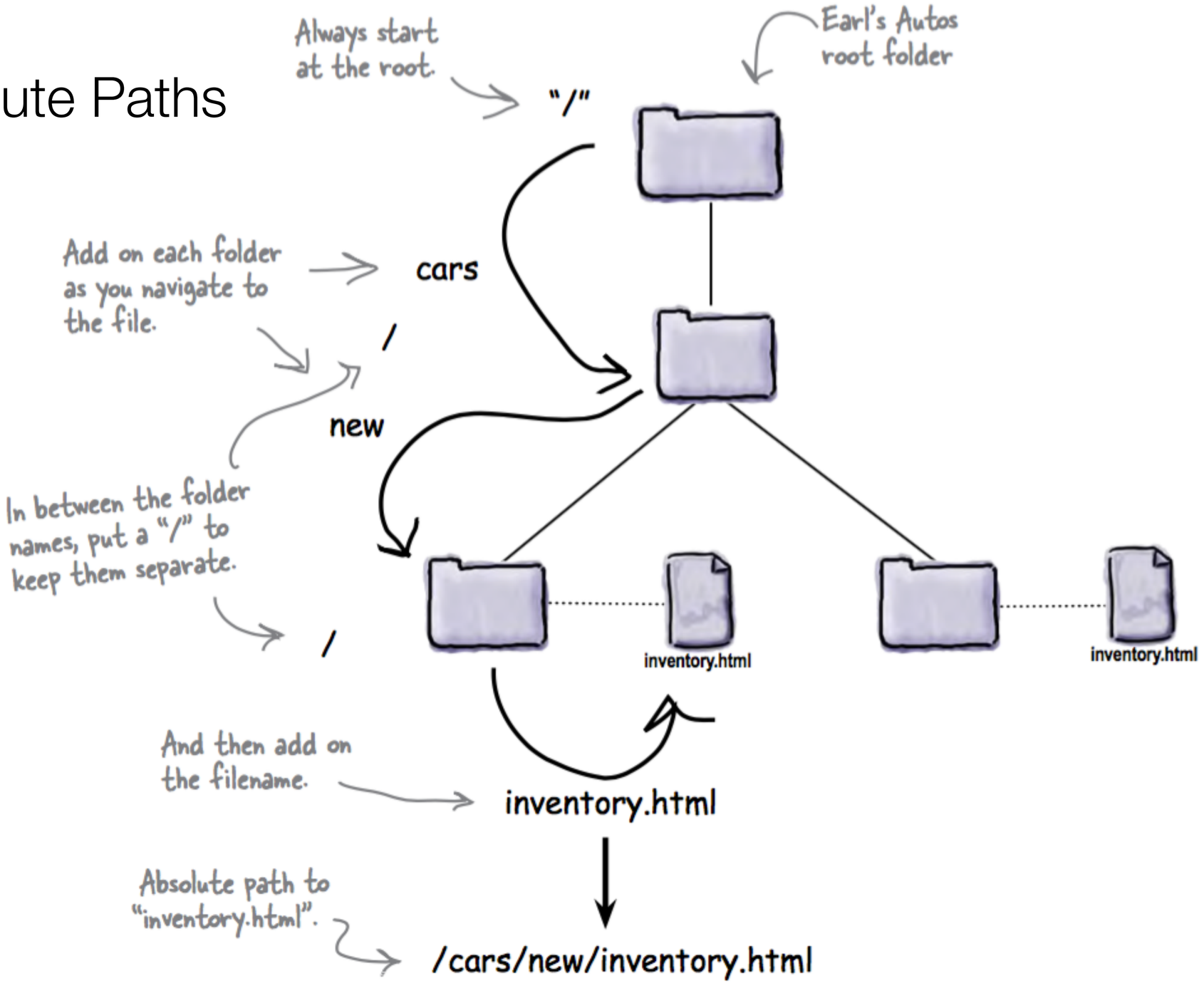
Relative Paths



../../ **Go up 2 levels**

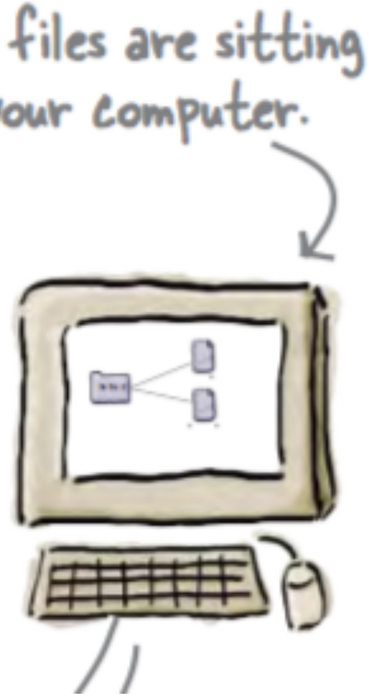
../../images/iot **Go up 2 levels and then down into images and into iot**

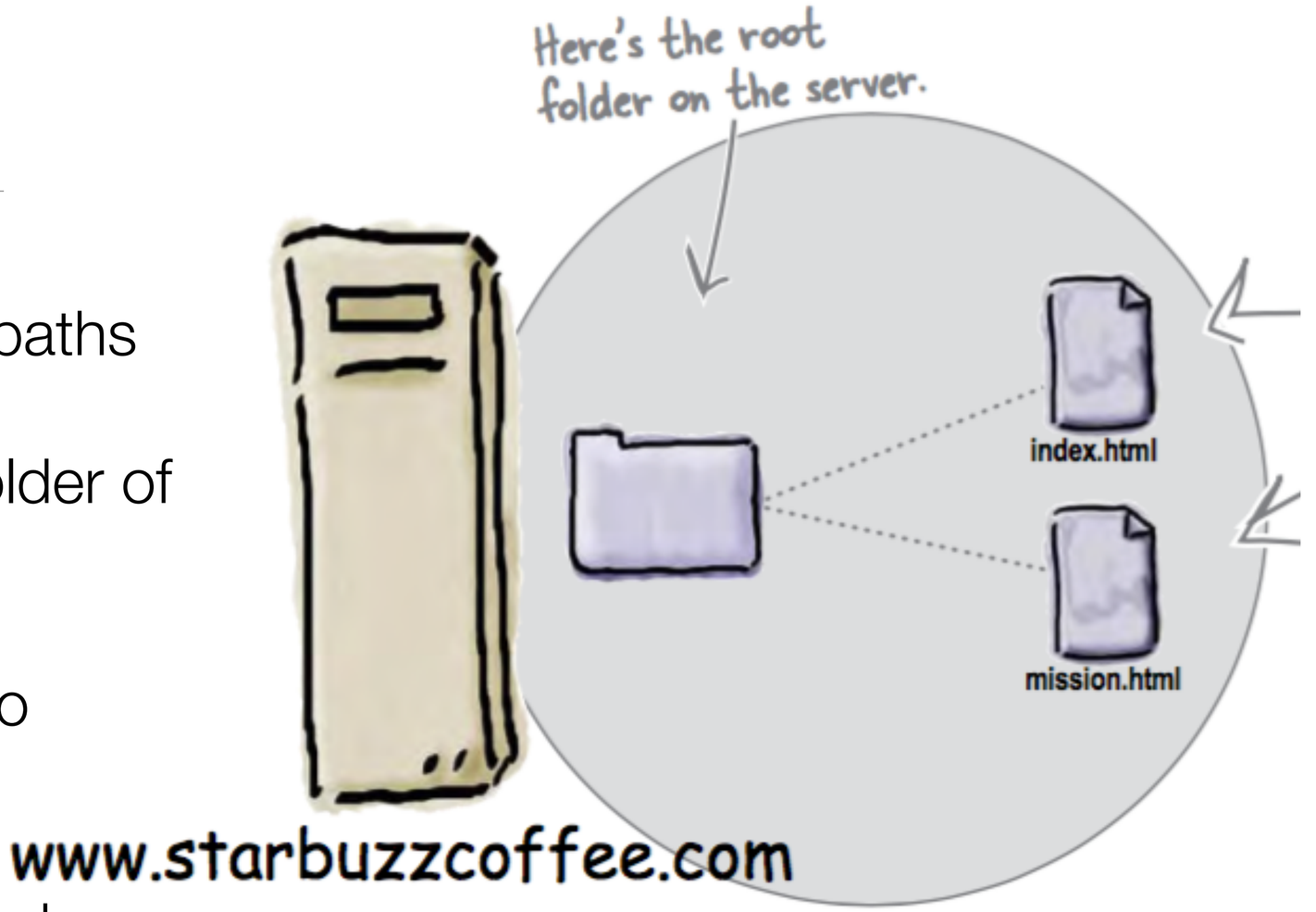
Absolute Paths



Paths on Local Web Sites

- When a site is loaded directly into a browser on a local machine (as you have been doing so far):
  - You cannot reliably use absolute paths
  - If you do, then the site all be tied to the specific disk structure on your computer.
  - E.g. ‘/images/main.png’ may translate to
  - ‘C:\MyDocuments\Web\project\images\main.png
- This site will not be usable on other computers.



Paths for Deployed Sites

- You **can** reliably use absolute paths
- They will resolve to the Root folder of your project
- This can be more convenient to manage the sites links
- However, the site can only then be browsed via a server - it cannot be loaded from disk directly