

# Deployment

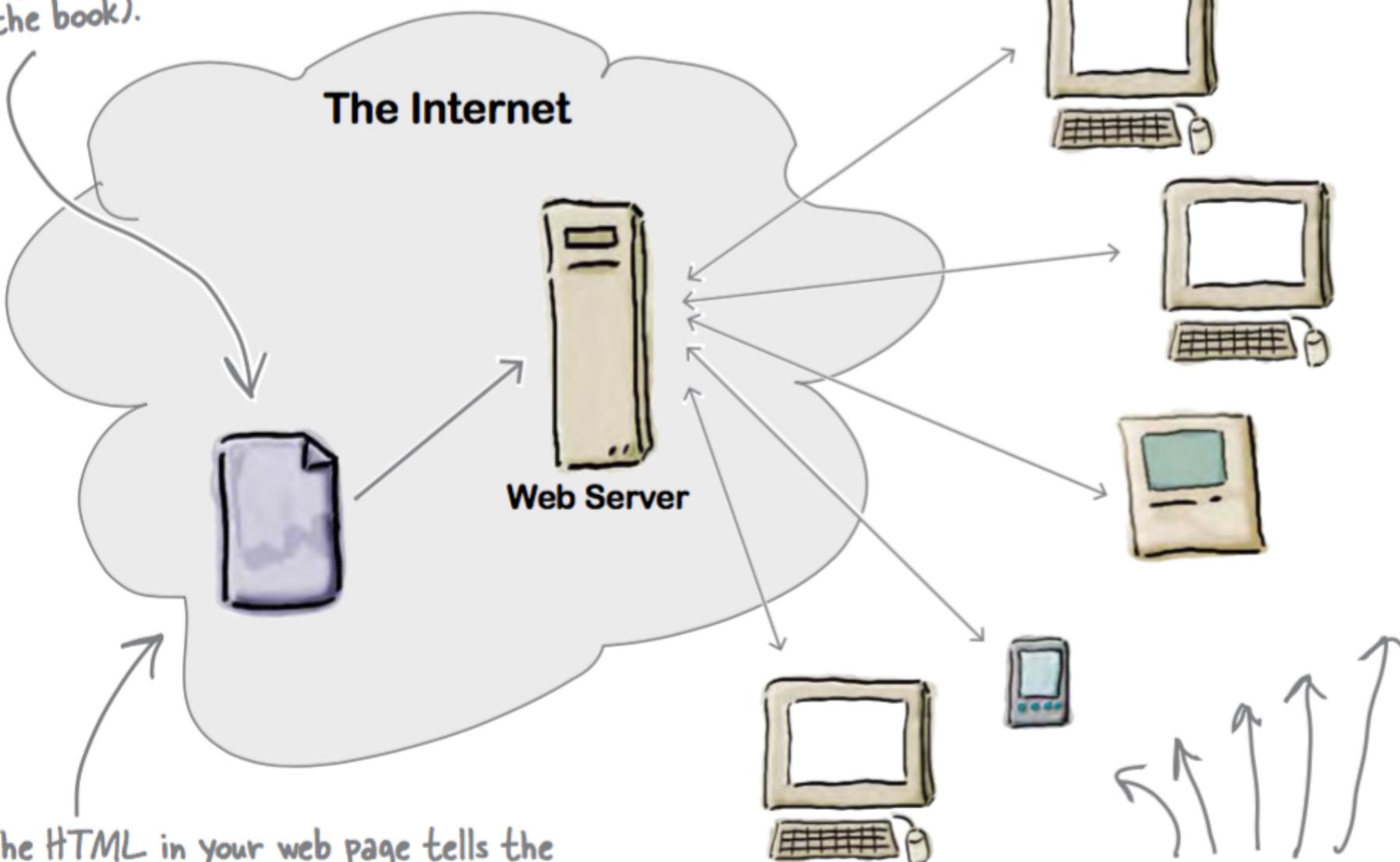
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# Deployment Issues

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

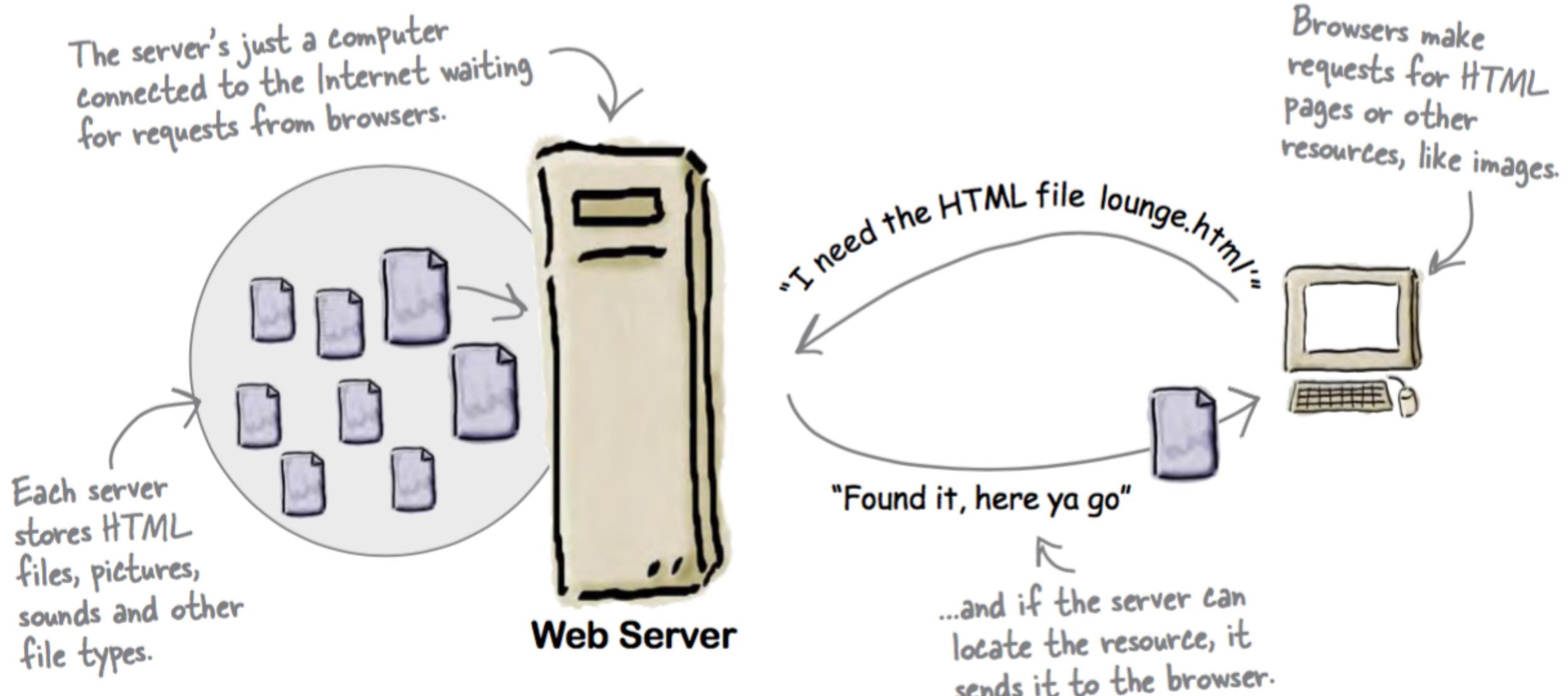
To make web pages, you create files written in the HyperText Markup Language (HTML for short) and place them on a web server (we'll talk about how to get your files on a server later in the book).

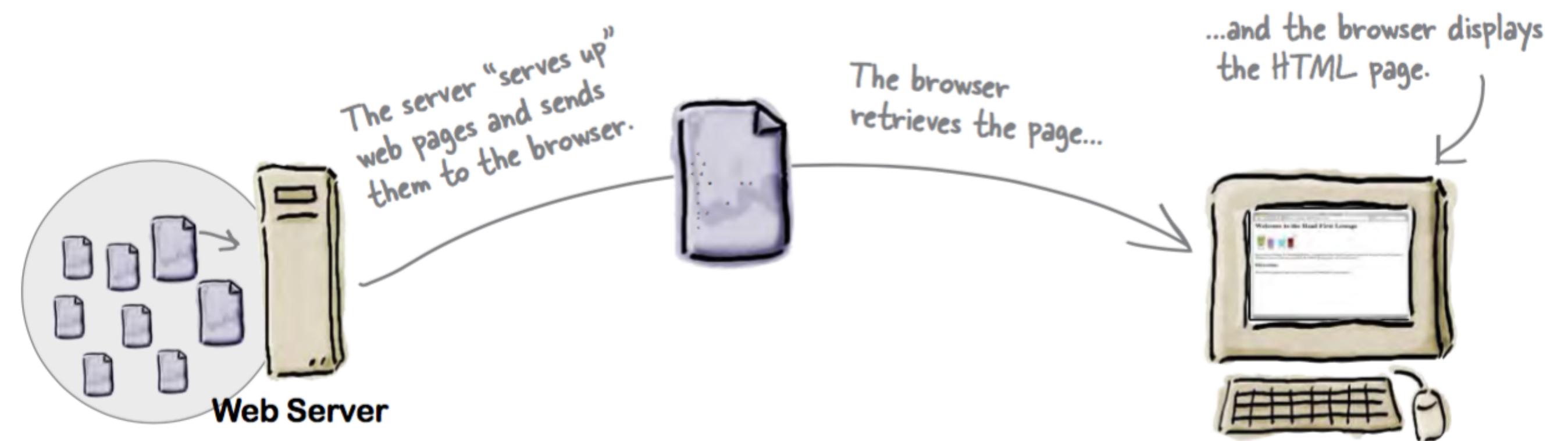


The HTML in your web page tells the browser what it needs to know to display your page. And, if you've done your job well, your pages will even display well on cell phones and mobile devices, and work with speech browsers and screen magnifiers for the visually impaired.

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

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!





# 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

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- **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

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This part is the domain name.

www . starbuzzcoffee . com

This part is the  
name of a specific  
server IN the  
domain.

There are different domain "endings"  
for different purposes: .com, .org, .gov,  
.edu; and also for different countries:  
.co.uk, .co.jp, and so on. When choosing a  
domain, pick the one that best fits you.

# 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>

The screenshot shows the ICANN website homepage. At the top, there's a banner for ICANN55 Marrakech, Morocco, held from March 5-10, 2016. The banner features a night view of a minaret and palm trees. Below the banner, there's a "Open Now" section about hotel bookings for the conference. A "Visit ICANN55 Website" button is present. To the right, there's a "News and Announcements" section with a link to "Experts Wanted for New gTLD Program Review". On the far right, there's a sidebar titled "Quicklinks" with various links like "Quarterly Reporting", "New gTLDs", "Domain Name Transfer", etc. The main menu includes "GET STARTED", "NEWS & MEDIA", "POLICY", "PUBLIC COMMENT", "RESOURCES", "COMMUNITY", and "IANA STEWARDSHIP & ACCOUNTABILITY". The top right corner shows a user profile for "Eamonn".

The screenshot shows the InterNIC Registrar Listing directory page. The top navigation bar includes links for "Home", "Registrars", "FAQ", and "Whois". The main content area is titled "The Accredited Registrar Directory" and lists several accredited registrars. It includes links for "Alphabetical Listing by Company/Organization Name", "Listing by Location of Registrar", and "Listing by Language Supported". A note at the bottom states that new accredited registrars are establishing services on an ongoing basis and that the directory will be updated frequently. There's also a link to the "ICANN Accredited Registrar Information Page". The top right corner shows a user profile for "Eamonn".

Domain Names, Web Hosting

Eamonn

https://ie.godaddy.com/offers/default.aspx?gclid=CKq9xeW--8gCFUHlwgodcdECIw&tmskey=1dom\_03&isc=gofhire...

Apps Algorithms Bookmarks mobile

Ireland - English EUR

24/7 Support Dublin: 01 653 5976 Help Sign In

Godaddy Ireland 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  
powered by VERISIGN

## 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.



h Hover - domain name and e x Eamonn

← → C ⌘ ⌘ 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!



**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](#)



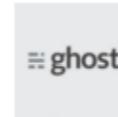
**Get a .design for \$22.99**  
Save \$15 on .design domains for a limited time. Find yours today.

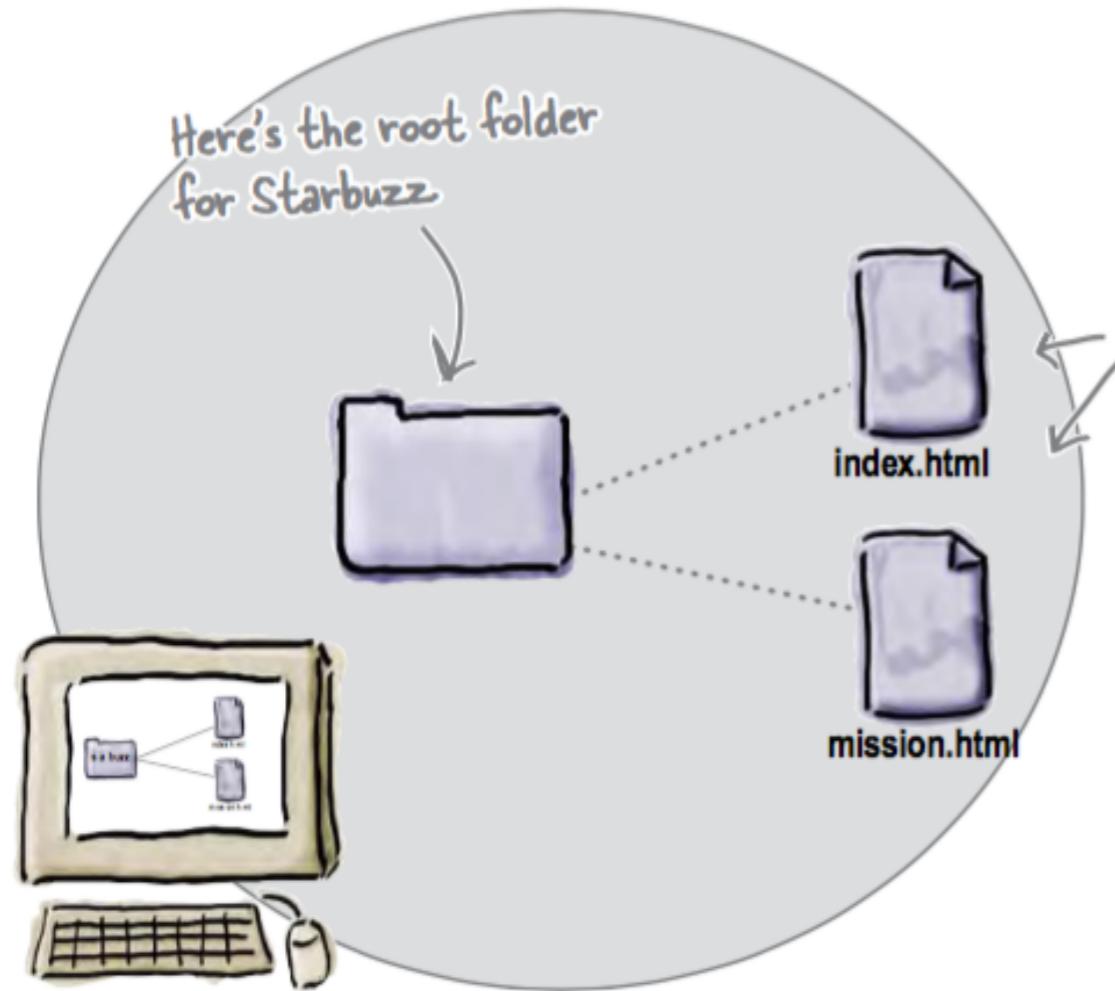
[VIEW ALL SALES](#)

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## Use your domain with your favorite service.

Website builders, portfolio tools, personal homepages... quickly connect your domain and start building.

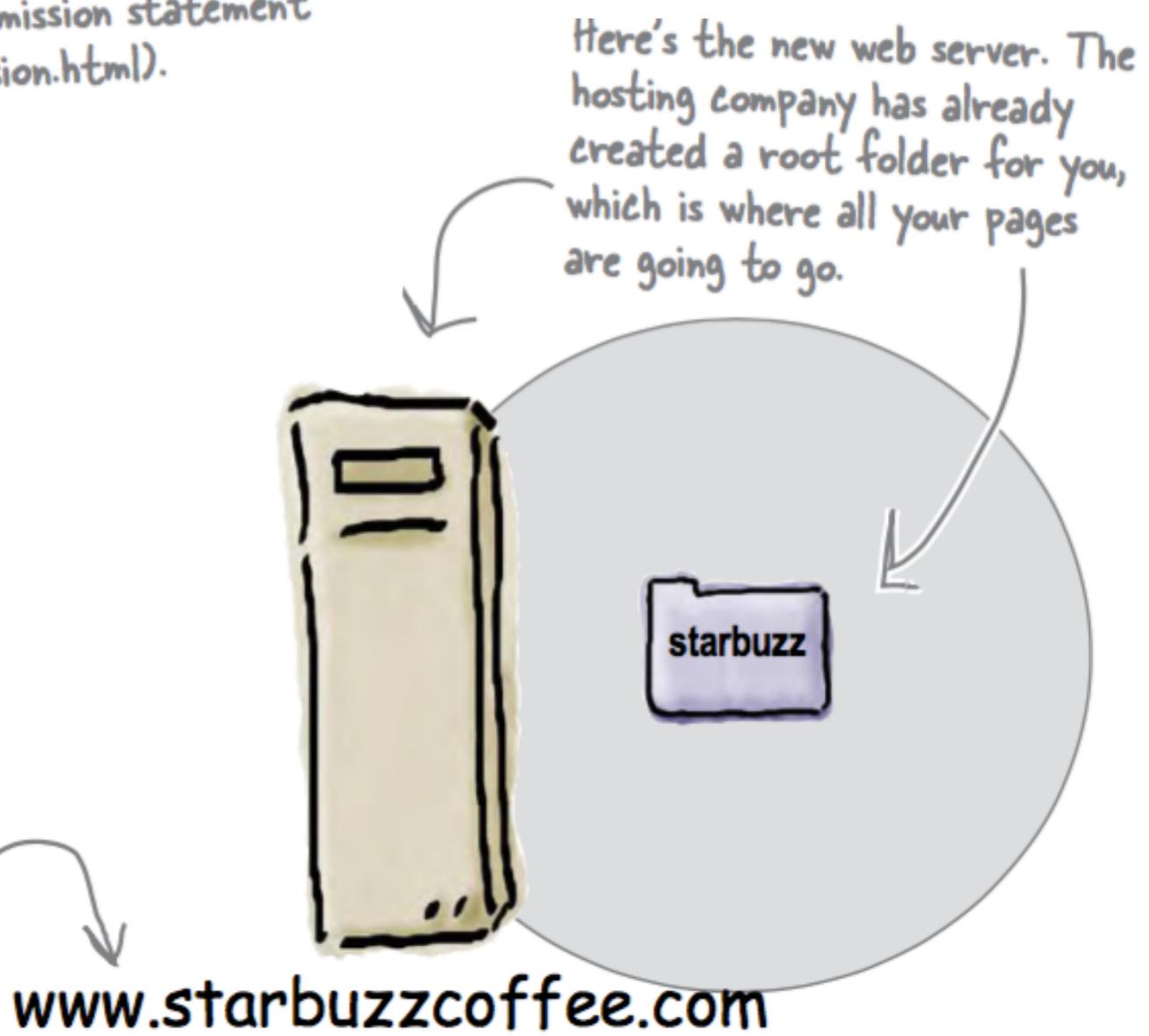
        



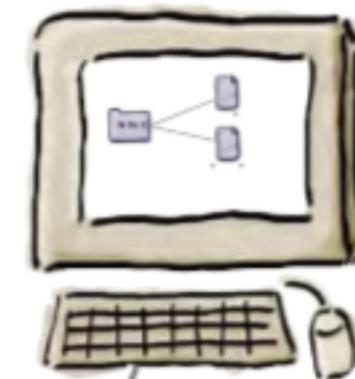
Your computer, where the Starbuzz pages currently live

Here's the new website name. We're using the `starbuzzcoffee.com` domain (since we beat you to it, you'll have to use your own domain name instead).

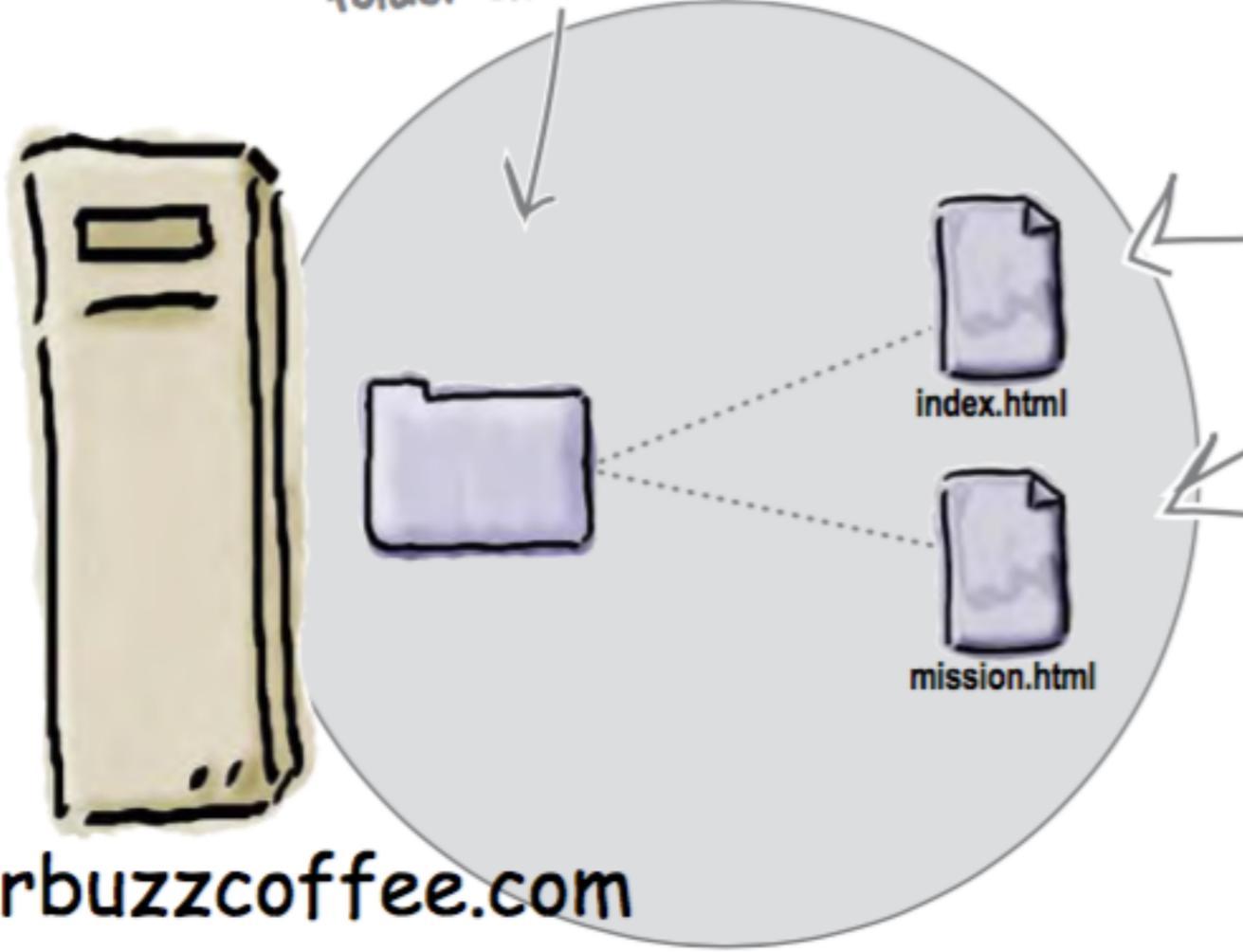
Remember your Starbuzz pages? There are two: the main page (`index.html`) and the page that contains the mission statement (`mission.html`).



The files are sitting  
on your computer.



Here's the root  
folder on the server.



# Transferring Files

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- Many Different Options:

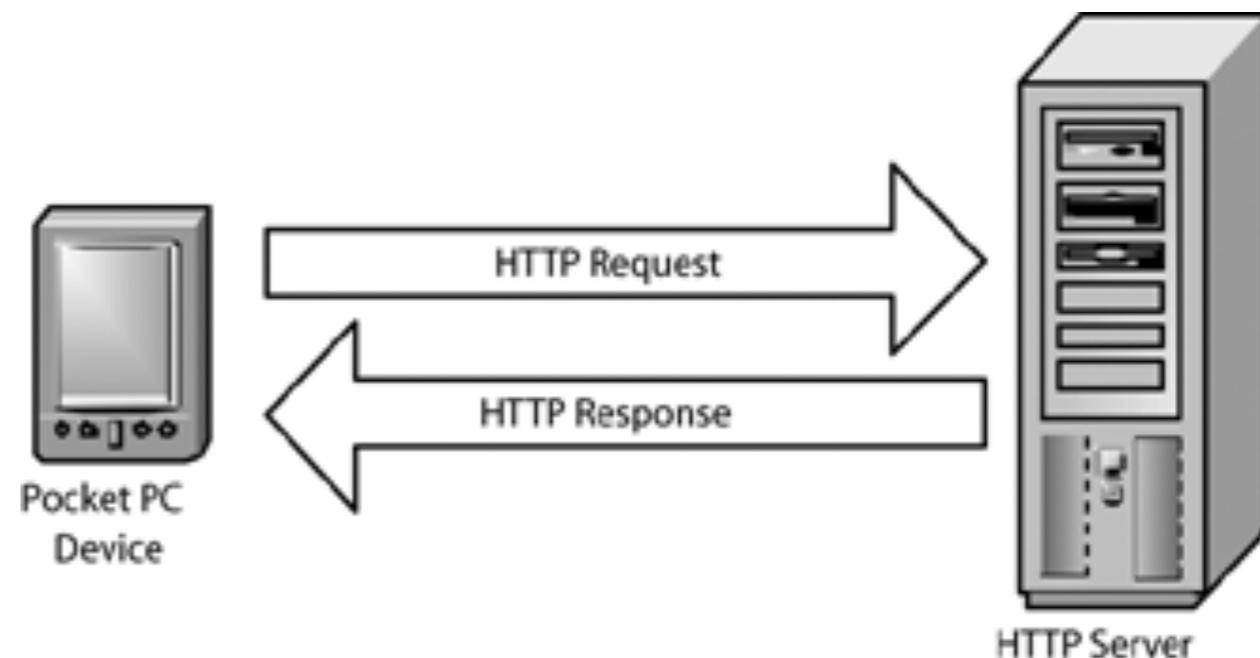
- FTP
- Dropbox
- WebDav
- Git Push
- Email Attachments
- Etc...

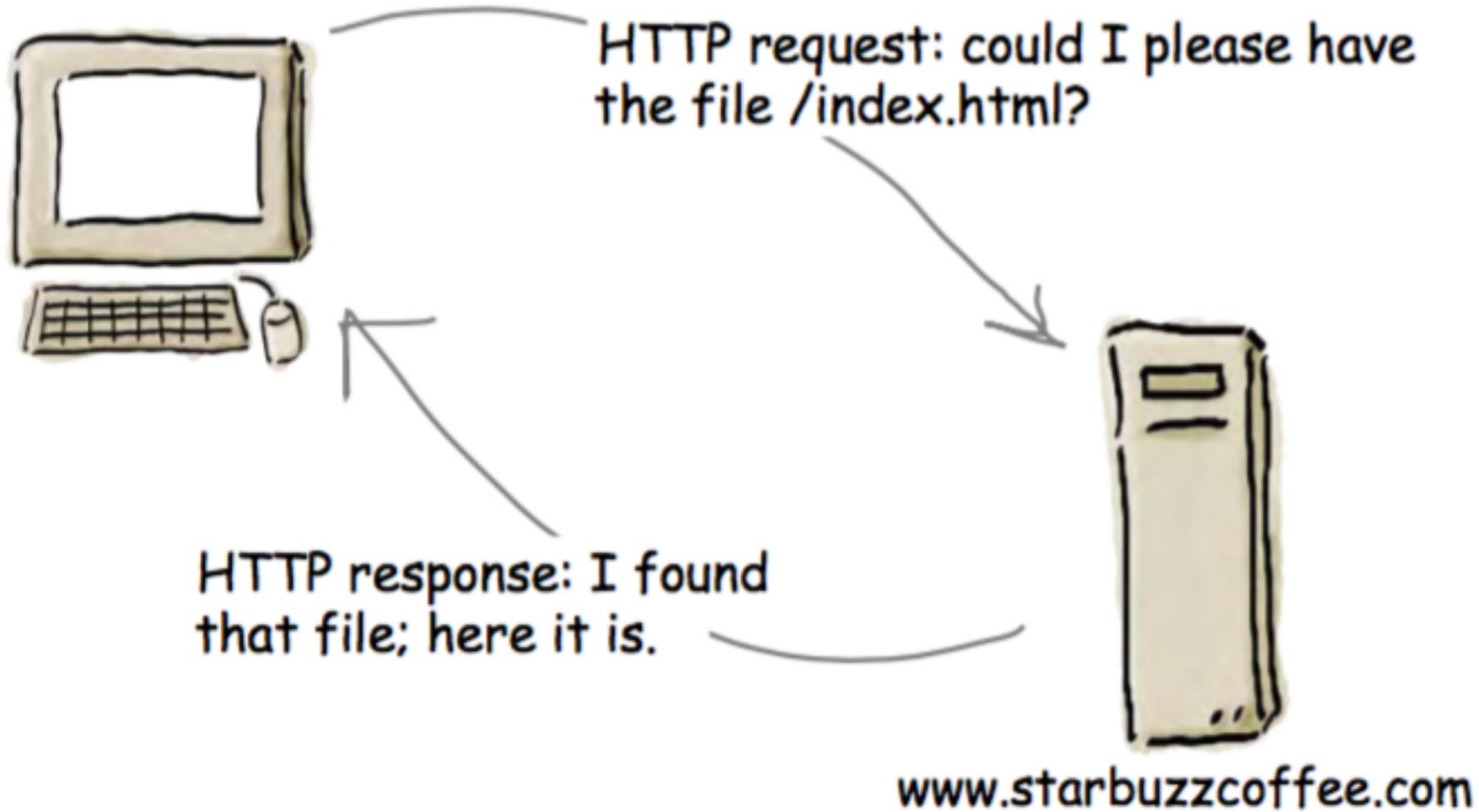


# HyperText Transfer Protocol - HTTP

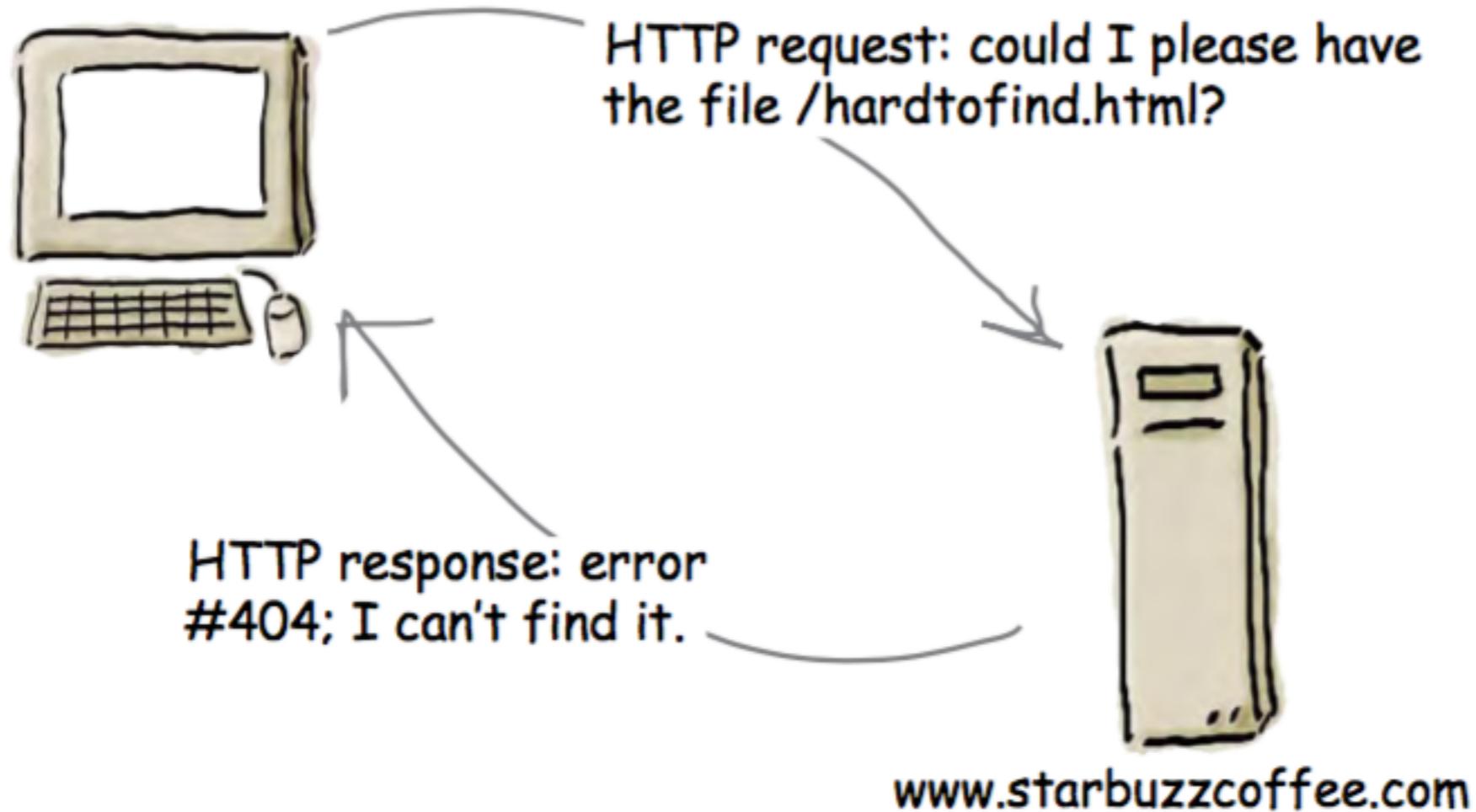
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- One Deployed - the site will be ‘served’ over HTTP to client browsers
- An agreed-upon method (a protocol) for transferring hypertext documents around the Web.
- While “hypertext documents” are usually just HTML pages, the protocol can also be used 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



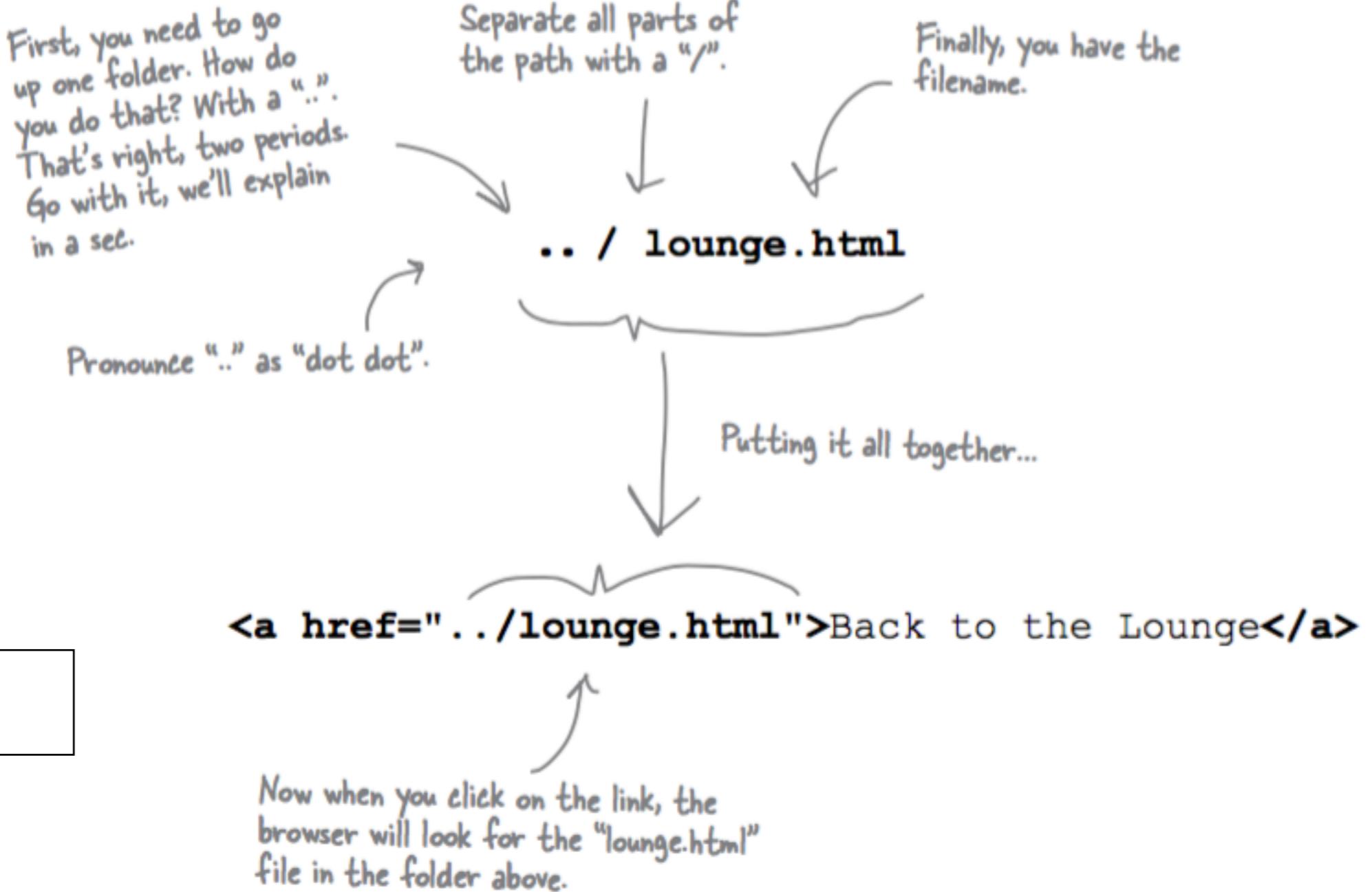
- If the resource can't be found, you'll get the familiar "404 Error," which the server reports back to your browser.

# Absolute & Relative Paths

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- 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*
  - .. *go up one level*
  - folder-name - *start with the ‘folder-name’ in the current directory.*

# Relative Paths

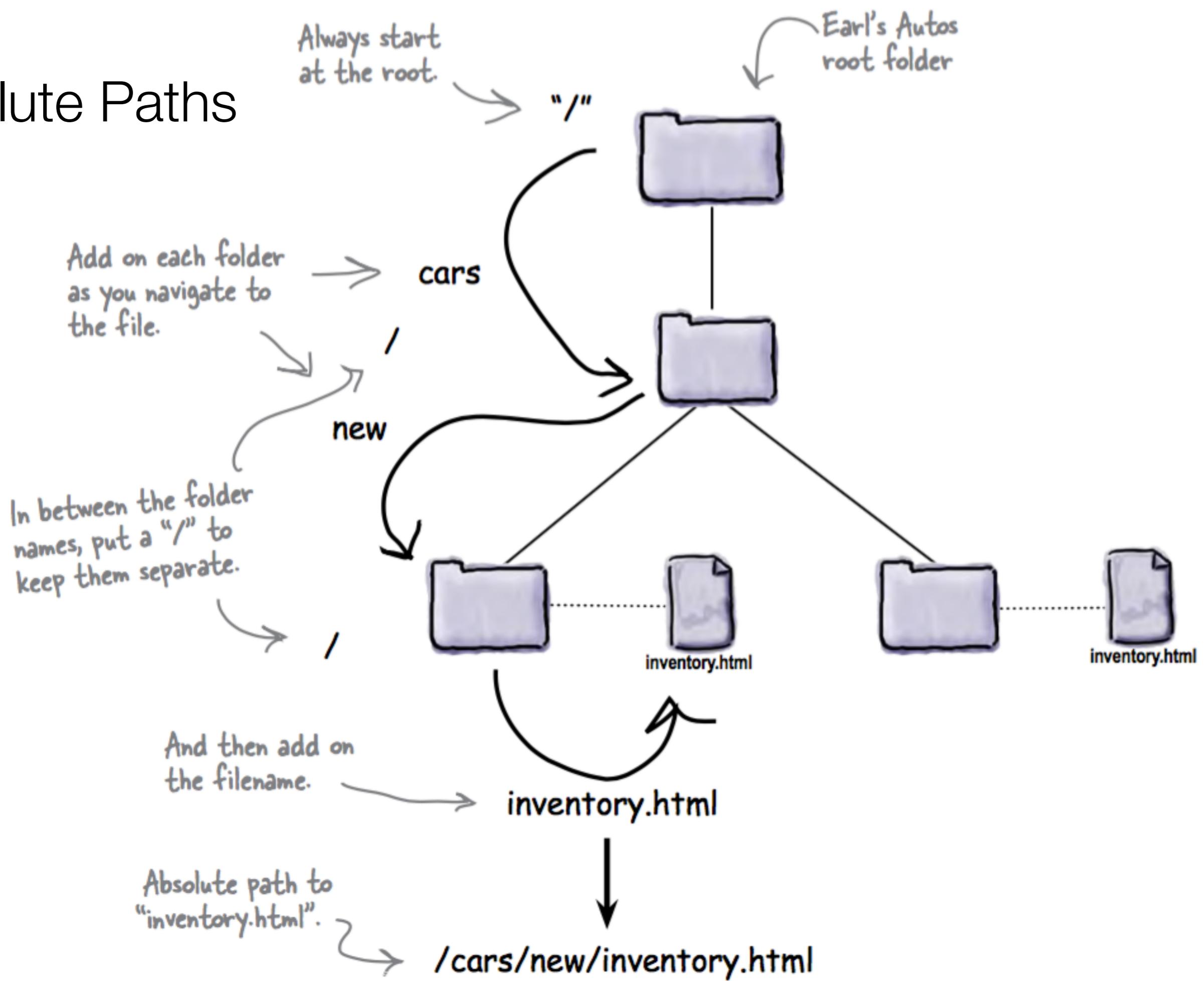


`.../..` **Go up 2 levels**

`.../../images/iot`

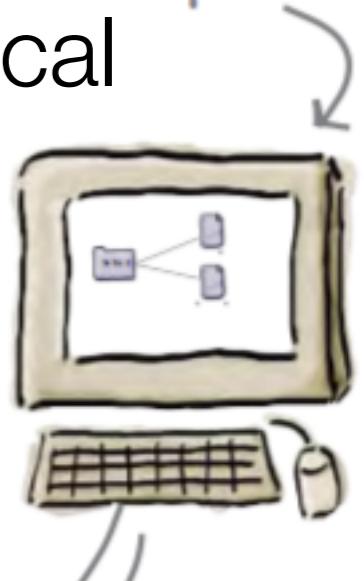
**Go up 2 levels and then down into images and into iot**

# Absolute Paths



# Paths on Local Web Sites

The files are sitting  
on your computer.



- 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 will 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

