networking

protocols

rules of communication

layers to network stack

https://en.wikipedia.org/wiki/OSI_model

packet switch network

every packet has a destination

HTTP

TCP

IP

http request anatomy

domains mapped to ip addresses
translated via dns routers

dig google.com

run that at the terminal

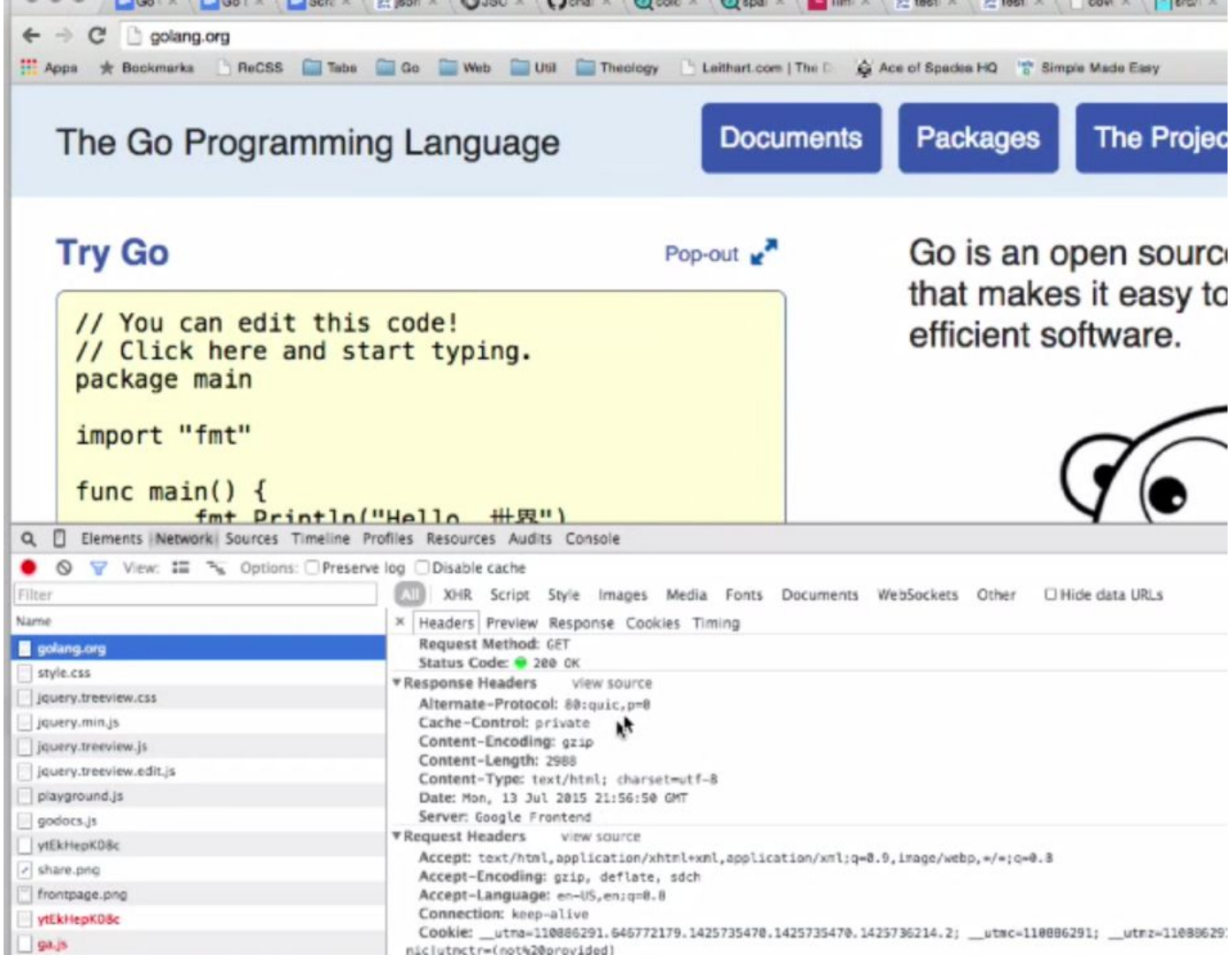
buying a domain name

google domains
or other places

whois

find out who owns a domain

http headers


golang.org
Apps
Bookmarks
ReCSS
Tabs
Go
Web
Util
Theology
Ace of Spades HQ
Simple Made Easy
The Go Programming Language
Documents
Packages
Try Go
Pop-out
// You can edit this code!
// Click here and start typing.
package main
import "fmt"
func main() {
Go is an open sourc
that makes it easy to
efficient software.
Elements
Network
Sources
Timeline
Profiles
Resources
Audits
Console
Preserve log
Disable cache
Filter
All
XHR
Script
Style
Images
Media
Fonts
Documents
WebSockets
Other
Hide data URLs
Name
golang.org
style.css
jquery.treeview.css
jquery.min.js
jquery.treeview.js
jquery.treeview.edit.js
playground.js
godocs.js
ytEkHepK08c
share.png
frontpage.png
ytEkHepK08c
Headers
Preview
Response
Cookies
Timing
Request Method: GET
Status Code: 200 OK
Response Headers
view source
Alternate-Protocol: 80:quic,p=0
Cache-Control: private
Content-Encoding: gzip
Content-Length: 2988
Content-Type: text/html; charset=utf-8
Date: Mon, 13 Jul 2015 21:56:50 GMT
Server: Google Frontend
Request Headers
view source
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Encoding: gzip, deflate, sdch
Accept-Language: en-US,en;q=0.8
Connection: keep-alive

curl golang.org

curl -v golang.org

curl -I golang.org

http
tcp

tcp is the layer below http

tcp

tcp is the layer below http
tcp provides a reliable connection
puts packets in order

wireshark

software that shows you tcp activity

traceroute google.com

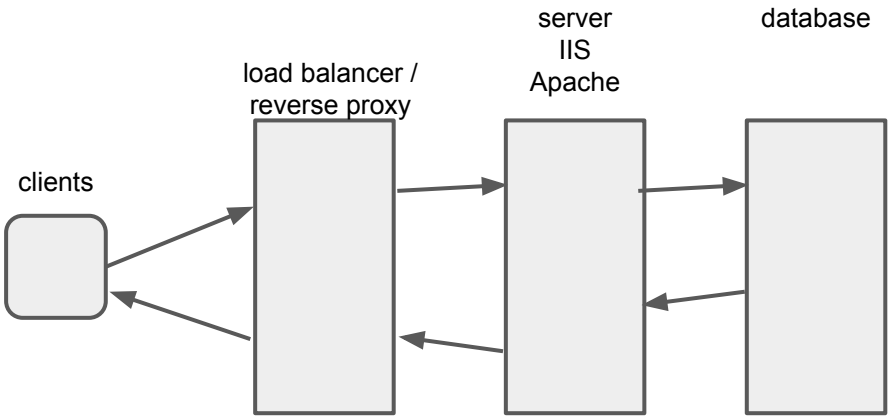
shows route to a website

distributed systems

we’re writing software today
that needs to run on distributed systems

distributed systems

client / server architecture
P-2-P architecture


server
IIS
Apache
database
load balancer /
reverse proxy
clients