Web Programming
Threaded Programming
The IT
TCP/IPv Internet Protocol
Transmission Control Protocol
Packet-Based
7 layer cake
(Iso) Network Stack
Networking is broken up into 7 layers.

Physical Network - Bottom most layer
Ethertnet, 802.11, ADSL, or.....

Application Layer

TCP

Sockets
HTTP
Hypertext Transfer Protocol
Stateless
→ cookies
Request Body

\[\Rightarrow\] usually empty

Response Body

\[\Rightarrow\] usually has HTML
GET → URL | headers

POST → headers | form submission | URL

HEAD

body | date

KEY = val

KEY = val
HTML → editing notes

SGML

Standardized General Markup Language.

Confuses semantics with presentation
Stylesheet

CSS

ontologies

micro-formats

X technologies

semantic web

data mining
XML - extensible

XForms
XSI
XPointer

XML is SGML for Amigos

DTD Document Type Definition

Markup Language
XPATH
XSCHMA
XSIGNATURES
How do we write programs that do this?

CGI - midlets
applets servlets
Servlets