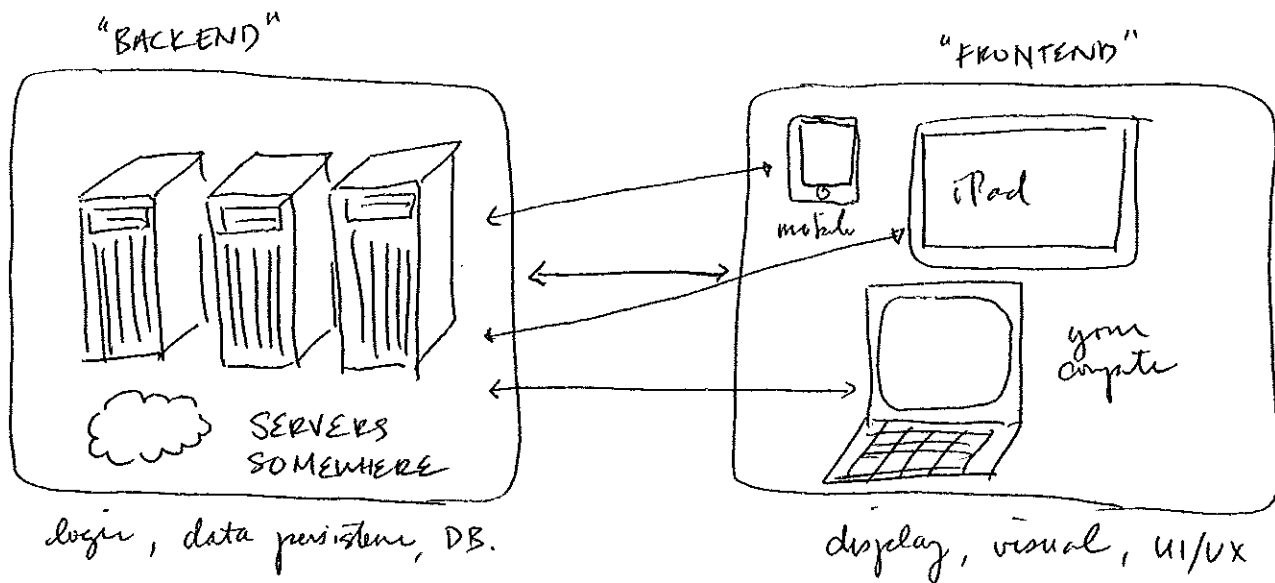


- 1 type "google.com" into your browser.
- 2 send request to DNS
- 3 look up "address" of "google.com"
- 4 send it back.
- 5 send request to address
- 6 server process request "BACKEND"
- 7 return a response (code)
- 8 filter/interpret response. "FRONTEND"
- 9 display to user



"BACKEND"

PHP, RUBY, PYTHON
JAVA, JAVASCRIPT,
ASP.NET C#

"FRONTEND"

HTML, CSS, JAVASCRIPT

HOUSE ANALOGY

BACKEND is STUFF YOU BUILD THE STRUCTURE WITH,
THAT MAKES YOUR HOUSE FUNCTIONAL.
WALLS, LOAD BEARING SUPPORTS, ELECTRICAL,
PLUMBING, ETC

FRONTEND is AESTHETICS, PAINT COLOR, LIGHT FIXTURES,
FRENCH DOORS, CROWN MOULDING.

BACKEND

Some server. Nowhereville, ID.

your client

(A) incoming request

info: stored as
"key/value" pairs.
like flash cards.
ex: { login: "eze"
pass: "hello" }

TAKE INCOMING REQUEST/DATA &
DO STUFF WITH IT.

THEN CREATE A

RESPONSE & SPIT IT BACK OUT.

Ex:
check login/
password
combination
against the
data base &
return success?

Ex:
API calls

(B) response

ex 1:
<html>
</html>

code, markup,
data.

ex 2:
{invalid!}

DB



Some
other
backend!

~~Backend 2.~~

PHP

JAVA

PYTHON

ROBY

(ANY FROM)

FRONTEND

server
response
<html>

...

<h1>will</h1>

<p> <p>

```
.class {  
  sub: red
```

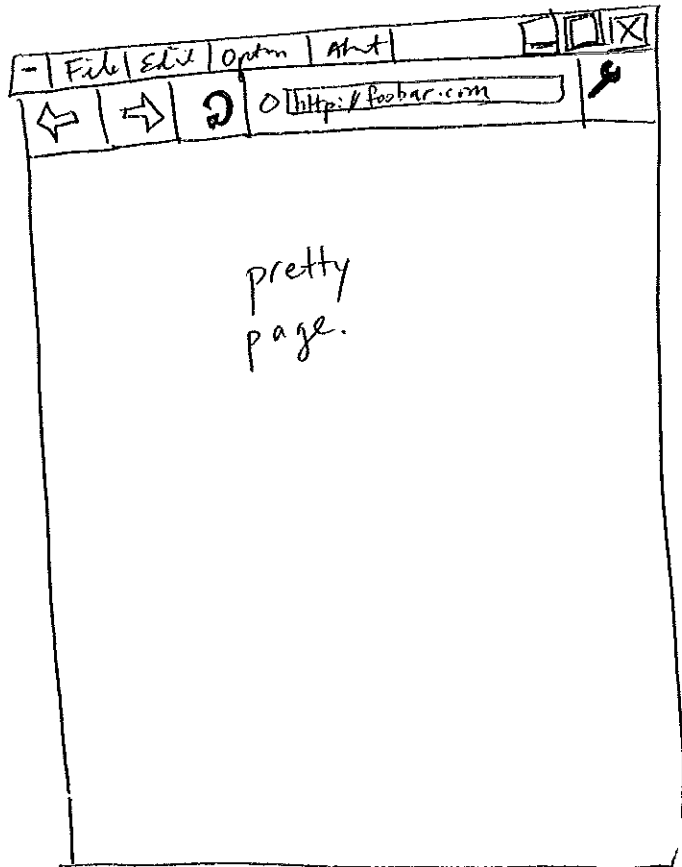
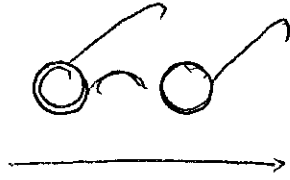
```
}
```

```
$(javascript)
```

blah blah

code markup

jsm

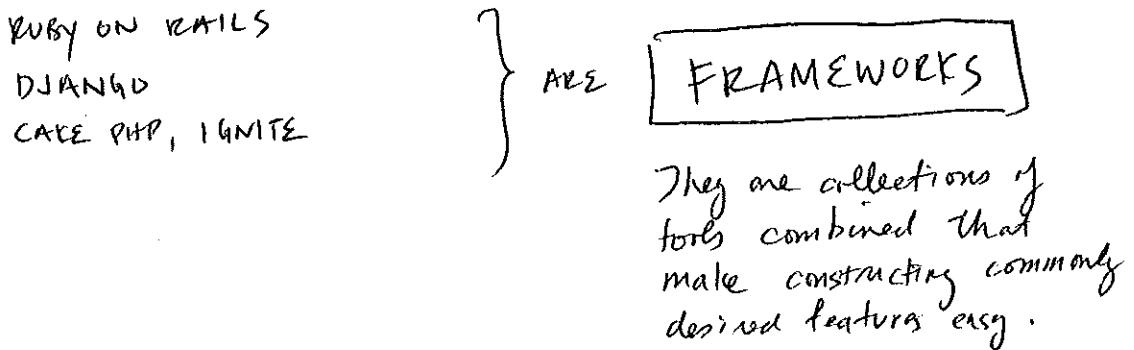
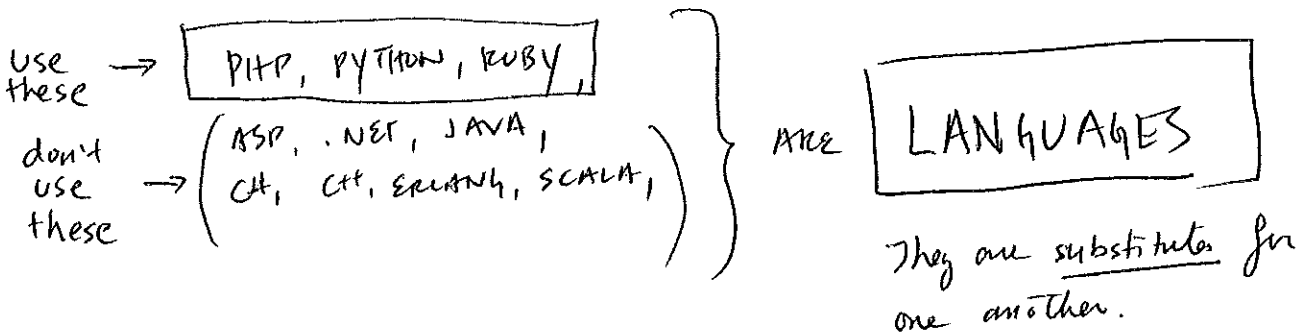
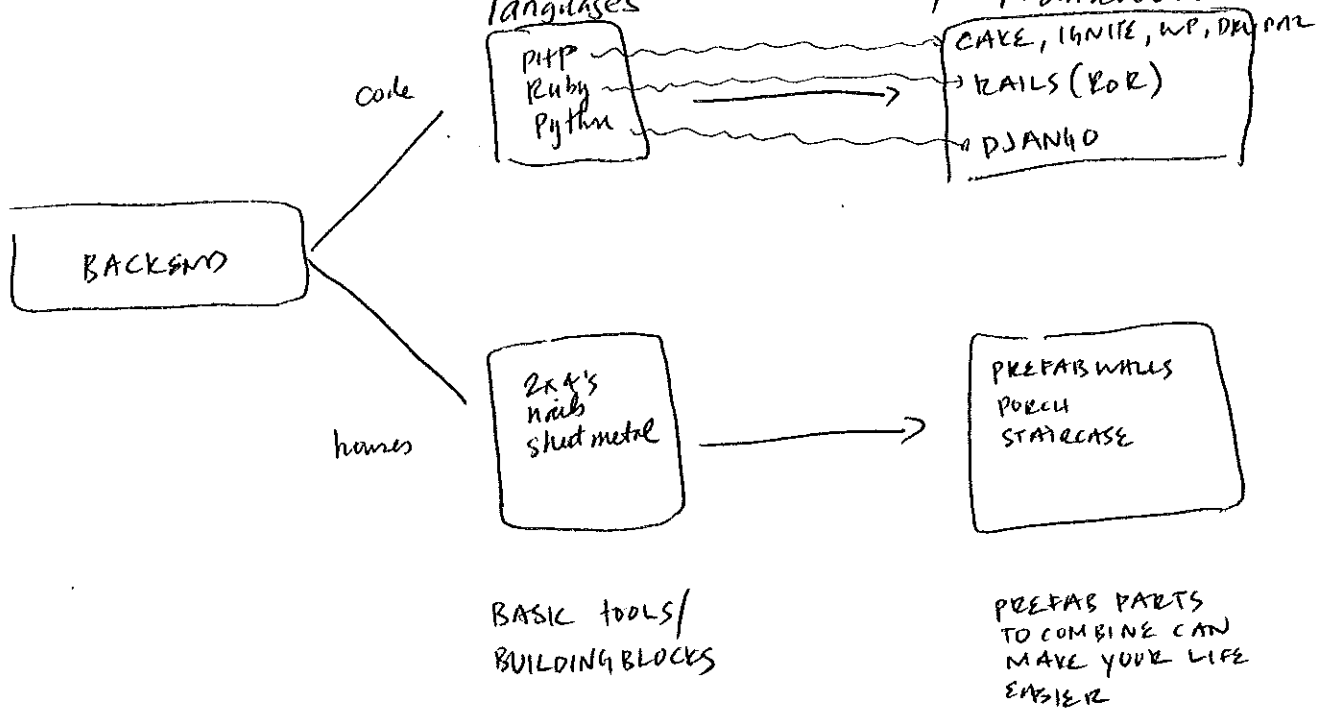


ex: Firefox

YOUR "CLIENT" IS A FILTER / LENS THAT
TAKES THE SERVER'S RESPONSE & MAKES IT
SENSIBLE FOR YOU

OK... LETS SEE HOW FAR WE CAN

STRETCH THIS HOUSE ANALOGY... framework



WARNING! HOUSE ANALOGY IS
GONNA GET REALLY FLIMSY HERE...

HTML

hyper-text markup language

DEFINES THE BASIC
STRUCTURE OF YOUR
PAGE & CAN CONTAIN
INFORMATION ABOUT WHAT
THE CONTENT REPRESENTS
(paragraphs, headings,
lists, links, quotes,
definitions, etc)

IT LOOKS LIKE A SERIES
OF TAGS WITH CONTENT:

```
<h1> this is a header </h1>  
<p>  
<form>  

```

CSS

cascading style sheets

DEFINES APPEARANCE,
LOOK, & LAYOUT OF
PAGE CONTENT

IT LOOKS LIKE

```
#elementid {  
  color: red;  
}  
.right-justify {  
  float: right  
}
```

JAVASCRIPT

PROVIDES INTERACTIVITY
TO WEB PAGES

IT LOOKS LIKE

(changed my mind...
you shouldn't come)

flimsy house analogies

HTML

ARRANGEMENT
of FURNITURE
INSIDE YOUR
HOUSE / ROOM

CSS

PAINT, CURTAIN
SELECTION, STYLE
of FURNITURE

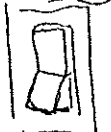
JAVASCRIPT

HOW YOU INTERACT
w/ THE SPACE.
FOR EXAMPLE, LIGHT
SWITCHES:

① standard



② fancy



③ slider



④ knob



REMEMBER HOW WE DESCRIBED
PHP / PYTHON / RUBY AS SUBSTITUTES?

HTML / CSS / JAVASCRIPT ARE COMPLEMENTS.
ONE CAN NOT REPLACE THE OTHER.

JAVASCRIPT IS NOT
THE SAME AS JAVA.

YOU DON'T CARE ABOUT
JAVA.

IN REAL LIFE, THE DISTINCTION
BETWEEN FRONT/BACK END ISN'T
ALWAYS VERY CLEAR CUT & MANY
ENGINEERS ARE BETTER/WORSE @ VARYING
PARTS OF THE STACK.