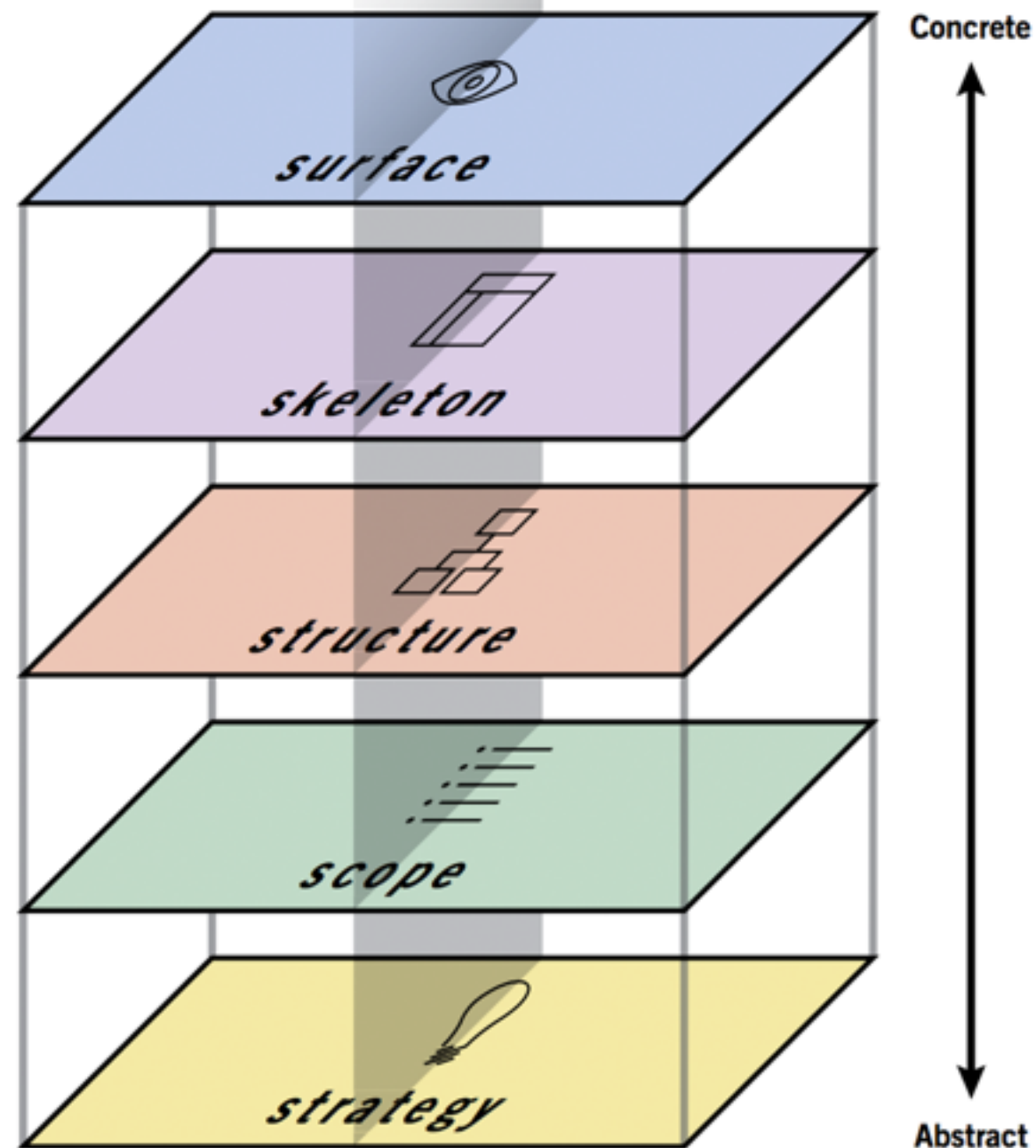


Week 2: Scope

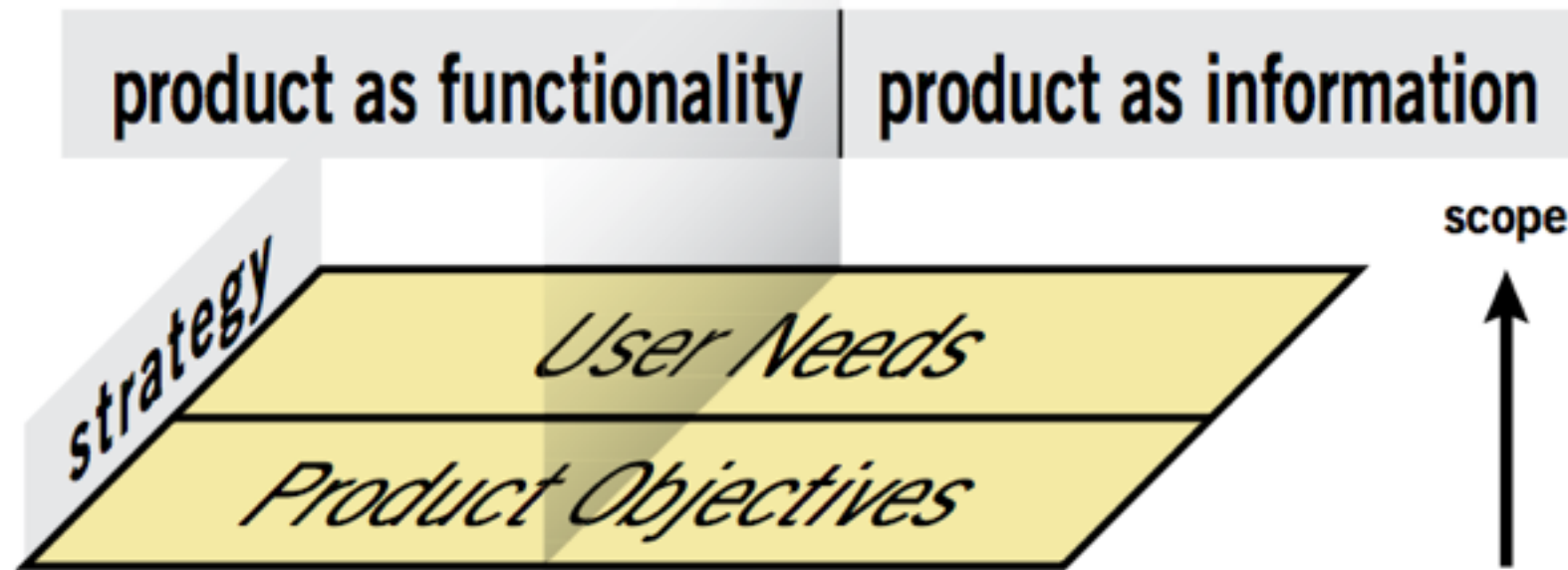
PUCD 2125 Section D, Spring 2017

product as functionality

product as information



Strategy



Why are we designing
and building something?

Who are we designing
and building something
for, what are their needs?

Scope

product as functionality

product as information

scope

*Functional
Specifications*

*Content
Requirements*

structure



strategy

What are we making?

What are we **not** making?

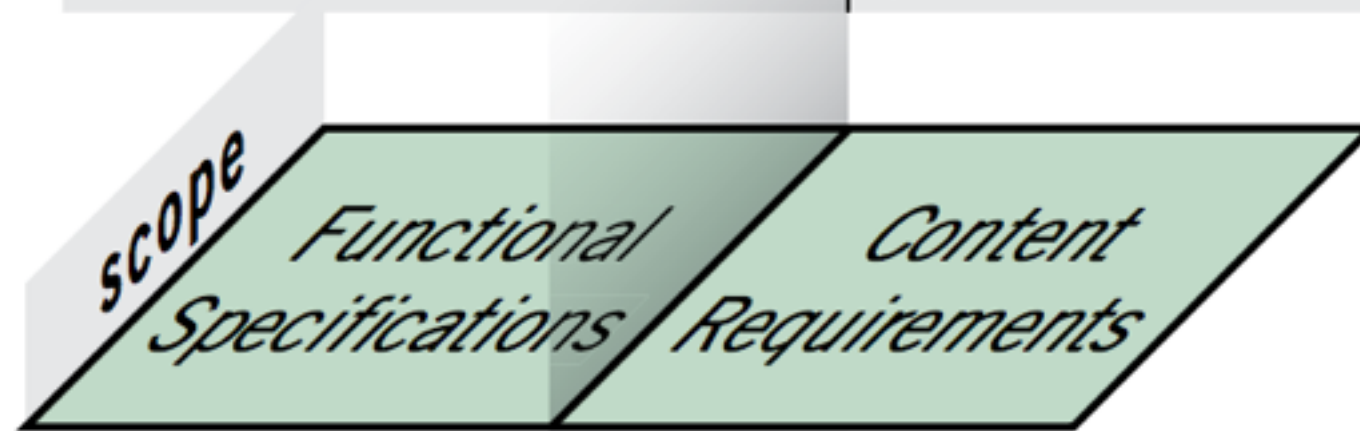
Scope creep



Functionality & Content

product as functionality

product as information



structure



strategy

What do our users
need to be able to do?



What text, images,
videos, etc. are we going
to need?



Where do requirement
come from?

- Research, precedents, or existing patterns.
- Stakeholders or decision makers.
- We make our own hypotheses (which should then be tested with real users).
- Talk to our intended audiences.

Users sometimes think
they know what they want.
They're sometimes right.

...but users sometimes
don't know what they
really want.



How the customer explained it.



How the project leader understood it.



How the analyst designed it.

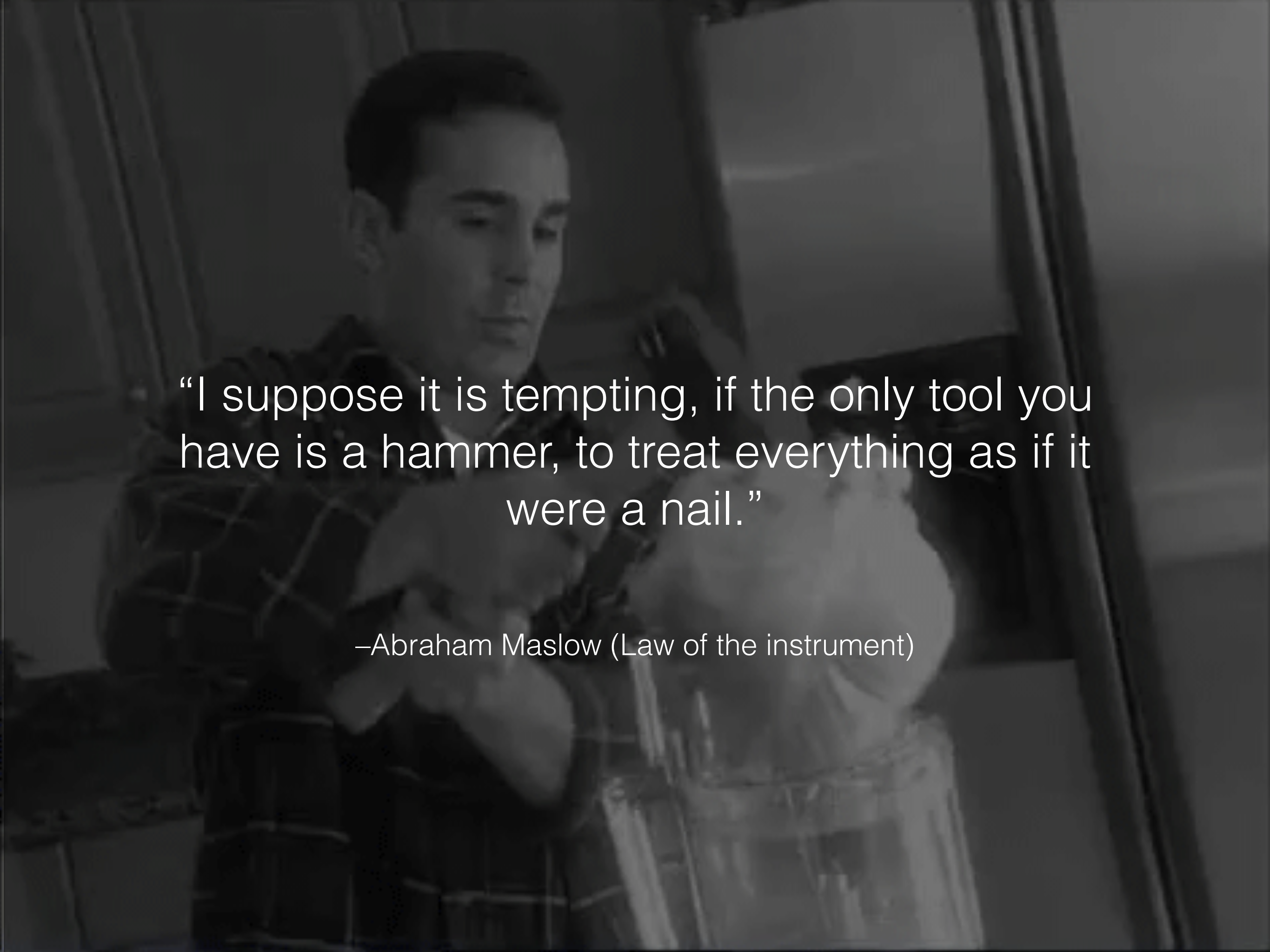


How the programmer wrote it.



What the customer really wanted.

- Might want an impossible solution.
- Might be treating a symptom rather than a root cause.
- It's easy to be overly reliant on a known approach or pattern.

A black and white photograph of a man in a plaid shirt, focused on hammering a nail into a wooden structure. The background is slightly blurred, showing more of the wooden framework. The lighting is soft, highlighting the man's concentration.

“I suppose it is tempting, if the only tool you have is a hammer, to treat everything as if it were a nail.”

–Abraham Maslow (Law of the instrument)

“I suppose it is tempting, if the only tool you have is a hammer, to treat everything as if it were a nail.”

–Abraham Maslow (Law of the instrument)

...and sometimes users
have no f*ing idea what
they want.



“If I had asked people what they wanted, they would have said faster horses.”

—Henry Ford

Focus Groups

~~Focus Groups~~

What do requirements
look like?

Scenarios

Scenarios

A short narrative about how a **persona** might go about trying to fulfill one of those user needs.

As a [user role],
I want to [action],
so I can [motivation].



As a **potential rider**,
I want to **see cars that are nearby**,
so I can be **reassured pickup time**
will be quick.

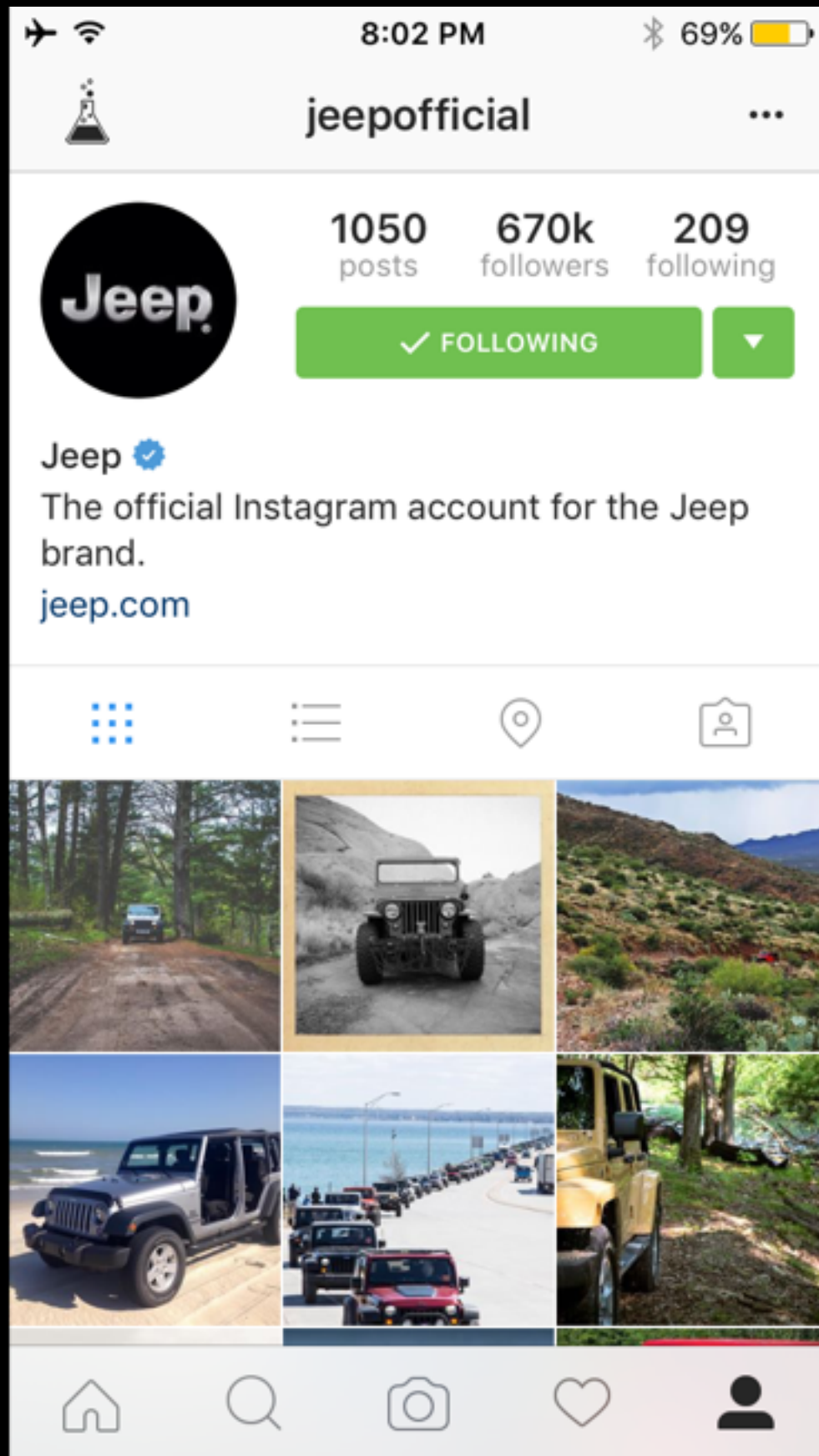
User Stories

A short(er) narrative about how a **persona** might go about trying to fulfill one of those user needs.



Potential rider can see
nearby cars on map.

- Potential rider can see their current location marked on map.
- Potential rider can see their pickup location marked on the map, defaulted to the closest street to their current location.
- Potential rider can drag map to adjust pickup location.
- Potential rider can see nearby cars on map.
- Potential rider can see nearby cars moving in simulated realtime.
- Potential rider can see their estimated pickup time (in minutes, rounded down)
- Potential rider can press the “Set Pickup Time” button to initiate a pickup.



Functional Specifications

- Accurate rather than exhaustive
- “Living” documents— likely to evolve as project progresses.
- Become more valuable with more people involved in the project.
- “Product Roadmap”— what we’re creating now, and what might come later.

- Be positive: describe what a user CAN do, rather than what they can't do.
- Be specific.
- Avoid being subjective.

Content Requirements

- Our content inventory: what text, images, videos, etc. will we need.
- If we're serving multiple audiences, will each audience need different content?
- Focus on the **purpose** of the content rather than the **format** of the content (for now).

Prioritizing Requirements

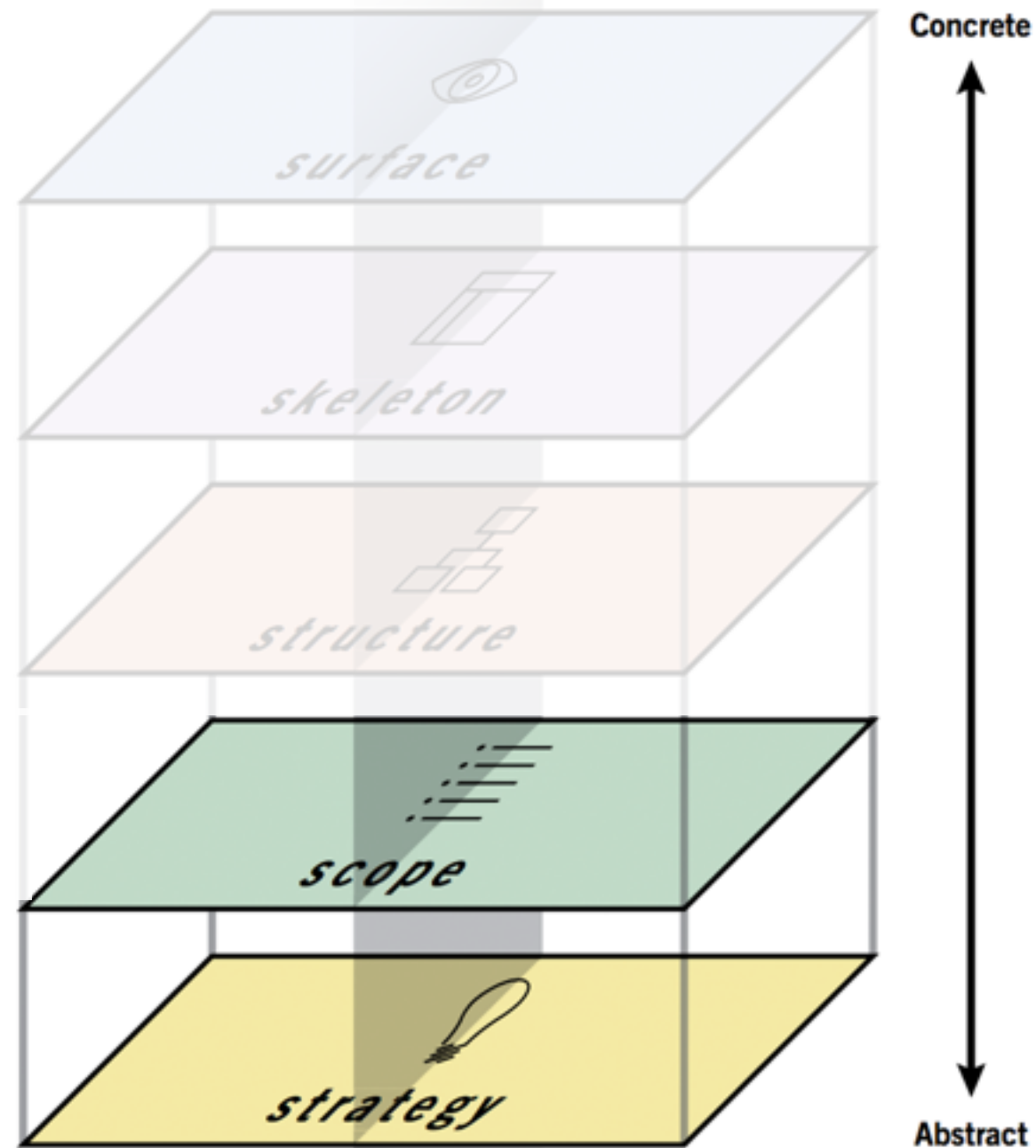
Is this proposed feature or content
helping to fulfill my strategic
objectives or audience needs?

Feasibility?

- Is it technologically possible?
- How much time do have? Can some of these requirements be postponed (for now).
- What are the implications of a feature in relation to other features?

product as functionality

product as information



Exercise:

- Pick a website or app that you use somewhat regularly
- Outline the site/app's *Objectives*
- Outline the site/app's *Audience Needs*
- Outline the site/app's *Functional Requirements*
- Outline the site/app's *Content Requirements*

For Tuesday:

- Read: The Elements of User Experience, Chapters 5-6.
- Download the software FreeMind
- Keep working on Project 1
 - Figure out your Content Requirements
 - Figure out your Functional Requirements
 - Start designing and building your experience (we'll review progress next Thursday).