



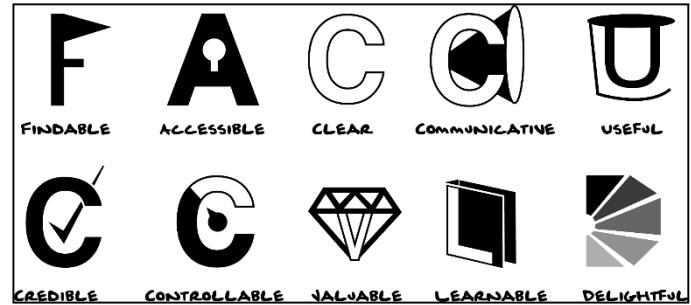
Lecture 6 - How to interpret data and use it to direct the design process

16.03.2017

Expert and user driven usability testing.

- Heuristics testing is a test done **by experts**.
- Find and identify problems with usability.
- Done Through out the proces.
- Flexible in terms of time, ressources and focus.
- Abby Covert (Define goals to evaluate against).
- **Cannot** substitute a user driven usability test.

- Combine with user driven usability testing.
- Employ the user to understand the user.
- Gain “real” insight to support choices.
- Always a constructed setting, but still wroth it.
- They are difficult to do – keep focus on users.



What happened last time?

Observation and Participation.

- Qualitative research methods.
- Gain “real” insight to support choices.
- Feel the challenges the users encounter.
- Uncover hidden knowledge and understand the difference between saying and doing.

- Defeat goalkeepers.
- Easy to conduct hard to analyze and use after.
- Not cheap but worth the time and money.



What happened last time?

This time:

Topic: How to interpret data and use it to direct the design process.

Homework and preparation

Lecture Date: 16. August 2016

Brief for Lecture #1

Title: The Evolution of Interface Design

Literature:

[Cooper]: Allan Cooper, About Face, 4th edition, 2014. Read Introduction to the fourth edition and pages 3 – 24 in Chapter 1 (31 pages in total. Ca. 2.5 hours of reading).

[Dank]: Nick Dank: Web Design is NOT Dead, You're Just Talking About it Wrong, 2015:

<https://uxmag.com/articles/web-design-is-not-dead-youre-just-talking-about-it-wrong> (Ca. 30 min reading)

[Nouvel]: Sergio Nouvel, Why Web Design is Dead, 2015:

<https://uxmag.com/articles/why-web-design-is-dead> (Ca. 30 min reading)

Further reading:

The rest of Allan Coopers, About Face, chapter 1.

Purpose of the day:

To be "updated" on the state and direction of web development. Introduction to the fact that web development is not about making pretty websites, but acquiring knowledge about development process and design situations. (Based on text: Nouvel vs. Dank discussion + Exercise throughout the day).

To gain knowledge about the field of interaction design, including interface design and the Goal Directed Design process. (Based on Text: Coopers introduction to AboutFace.)

To learn about the past and possible future of HCI and get to know some of the many different directions with in the design research and design field, including, GUI, NUI, MUI and CUI.

We will discuss different definitions of *Interface* and perhaps come to realise that *Interface* can best be understood as a fuzzy phenomenon. (Based on two Exercises)

Control questions – (before coming to class, be able to answer the following):

- Question for the Alan Coopers text:
 - What is the difference between Interface Design and Interaction Design?
 - What is Goal Directed Design Process?
- Question for the Nick Dank and Sergio Nouvel articles:
 - Why does Nouvel believe Web design is dead?
 - What does Dank mean by "Web design is not dead, you are just talking about it wrong"?
 - On what crucial point does Dank and Nouvel agree?

Wrap up – (Will be updated after class with corrections or added points):

Changes may occur

Page 1 of 1

Time	Subject
8.30	Agenda and recap from last week
9.00	Wicked Problems
9.40	Development methods and Design processes
10.00	Break
10.30	Personas
11.10	Scenarios
11.55	Recap + Homework
12.00	Dismissed

Today's agenda

Design thinking



Design thinking and Wicked problems

Design Thinking

Why a Science of Design –

“A concern to connect and integrate useful knowledge from the arts and sciences alike, but in ways that are suited to the problems and purposes of the present” (6) (Design problems/wicked problems).

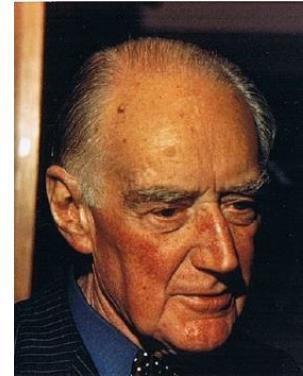
Design is to be understood **very broad**:

- Symbolic and visual communication (Graphic, Books, PCs)
- Material objects (clothing, objects, tools, vehicles)
- Activities and organized services (logistics, strategic planning)
- Complex systems or environments for living, working, playing, and learning. (urban, sustainability, culture)

Design thinking and Wicked problems

Design Thinking

Many sciences with a shared understanding: “The conception and planning of the artificial.”(14)



Rittel



Webber

Horst W. J. Rittel

Professor focused on design thinking and planning.

Wicked problems are everywhere and they are extremely difficult to define!?



Wicked Problems

Think of them as the **opposite of tame problems.**

A tame problem:

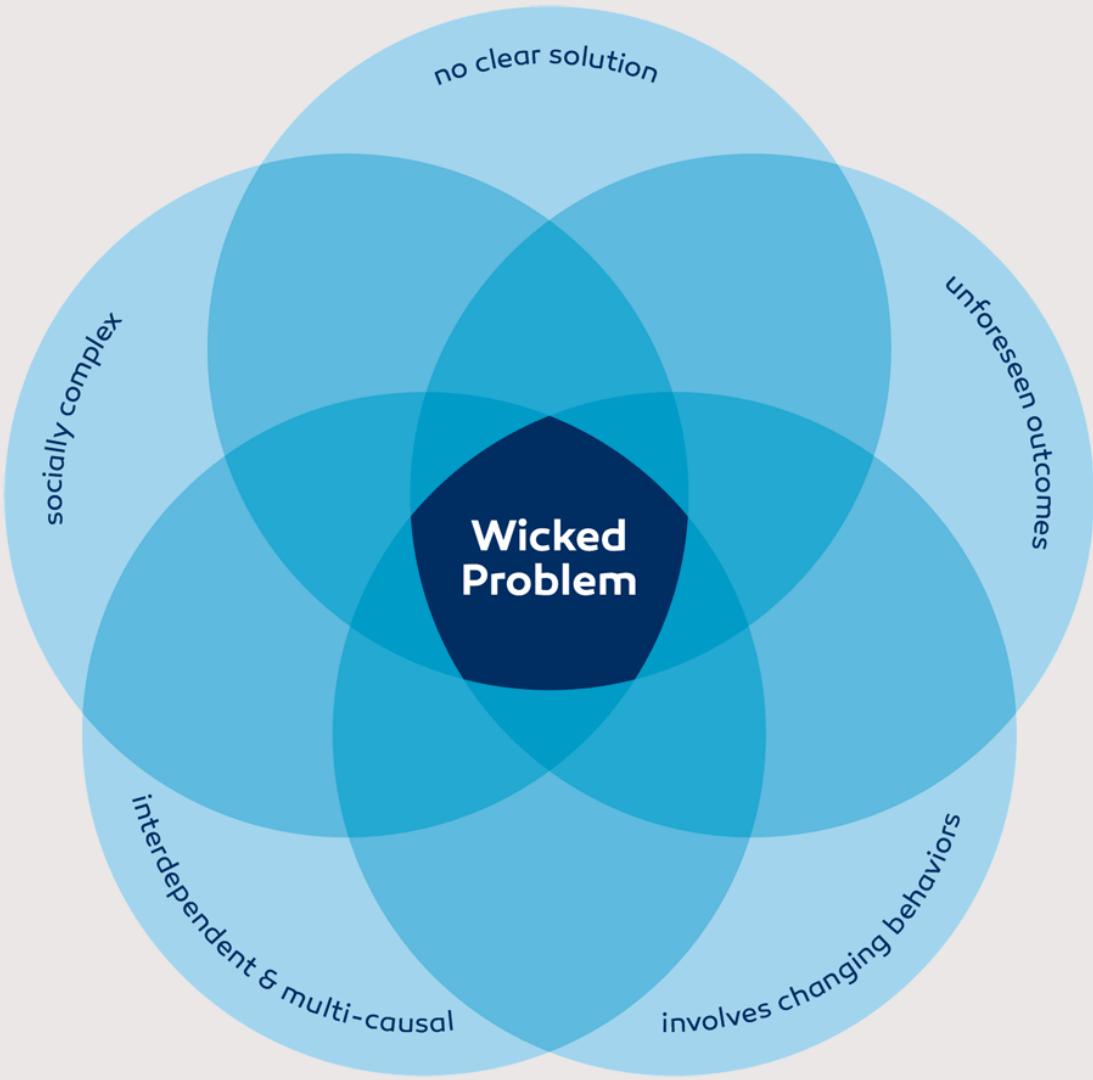
You know a button is missing!
You know where it is missing!
You know what code to implement and where!

A wicked problem:

The problem of defining a problem and locating it + identifying actions need to go from what-is to what-ought-to-be. (p. 159 in Rittel)



An understanding



Simplifying the wickedness



What is digital literacy
according to:

Children?

Parents?

Teachers?



1. There is no definitive formulation of a wicked problem.

Here by the term formulation Rittel means the set of all the information need to understand and to solve the problem. By definitive he means exhaustive.

2. Wicked problems have no stopping rule.

There are no objective criteria for determining when a wicked problem has been solved. Designers can always go on trying to do a better job designing. Design projects end not because of the “logic of the problem” but because of limits of resources such as time, money, manpower. etc.



Wicked problems

http://jburge.faculty.wesleyan.edu/files/2015/10/DCC14_WP_final.pdf

3. Solutions to wicked problems are not true-false, but good-bad.

Determining whether a solution is good is a value judgment, not a factual judgment. There are no objective means for making value judgments; so such judgments are often disputed, even by reasonable and informed people.

4. There is no immediate and no ultimate test of a solution to a wicked problem.

A solution to a wicked problem generates chains of consequences extending far into the future. Since unknown future consequences might outweigh known near-term consequences, the designer never really knows how good a solution is.



Wicked problems

http://jburge.faculty.wesleyan.edu/files/2015/10/DCC14_WP_final.pdf

5. Every solution to a wicked problem is a “one-shot operation”; because there is no opportunity to learn by trial-and-error, every attempt counts significantly.

A solution to a wicked problem has irreversible, real-world consequences; so trial-and-error is not ethically defensible.

6. Wicked problems do not have an enumerable (or exhaustively describable) set of potential solutions, nor is there a well-described set of permissible operations that may be incorporated into the plan.

For wicked problems, it is not possible to prove that any list of solutions is complete. Designers can always try to devise new solution ideas.



Wicked problems

http://jburge.faculty.wesleyan.edu/files/2015/10/DCC14_WP_final.pdf

7. Every wicked problem is essentially unique.

No matter how similar a new wicked problem looks to a previous wicked problem, there is no guarantee that the new one will not have unique factors that are of overriding importance.

8. Every wicked problem can be considered a symptom of another wicked problem.

There are two ways of solving a given wicked problem. One is by solving it directly. The other is by considering it to be a symptom of (caused by) another wicked problem and then solving that other problem.



Wicked problems

http://jburge.faculty.wesleyan.edu/files/2015/10/DCC14_WP_final.pdf

9. The existence of a discrepancy representing a wicked problem can be explained in numerous ways. The choice of explanation determines the nature of the problem's solution. Different people may have different ideas about what causes a given wicked problem and, thus, how to solve it. There are no objective methods for settling such differences of opinion.

10. The designer has no right to be wrong. Designers are legally and morally responsible for the consequences of their design decisions, because those consequences take the form of irreversible effects on people.



Wicked problems

http://jburge.faculty.wesleyan.edu/files/2015/10/DCC14_WP_final.pdf

Determinism

Everything can be understood, explain and solved by applying relevant theories. Things are set.

Indeterminism

Everything is unique and requires us to formulate new theories in order to explain it. Things are free.

Wicked problems hold elements of indeterminacy. But we can fix that.



Wicked problems

Wicked problems can be difficult to understand.

Help each other out - **20 minutes**.

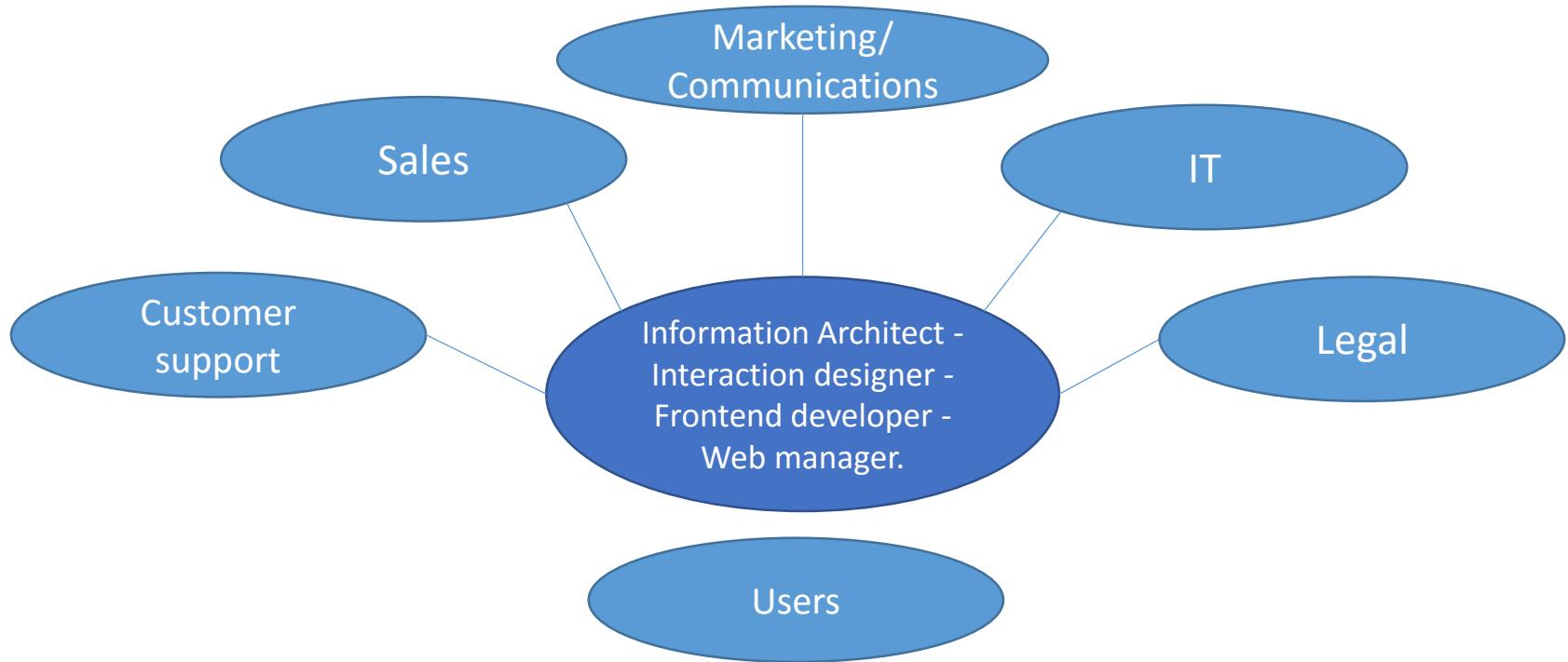
- Can implementing “Rejsekortet” across Denmark in all types of public transportation be considered a wicked problem? Why/not?

- Can designing a website for Terapi-Hobby be considered a wicked problem? Use the ten properties of Wicked problems and your own experience as a frame for the analysis

- When have you, worked with a wicked problem? (What was the problem and why was it wicked?) Did you find a solution?

Wicked problems

Wicked problems on both sides of the "design situation".

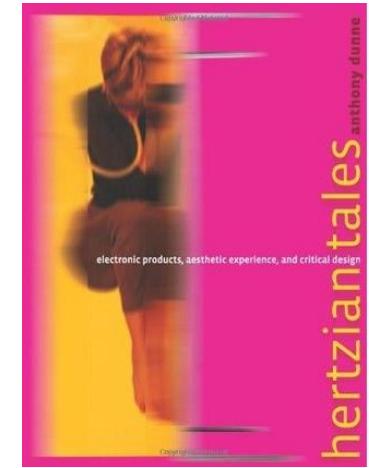
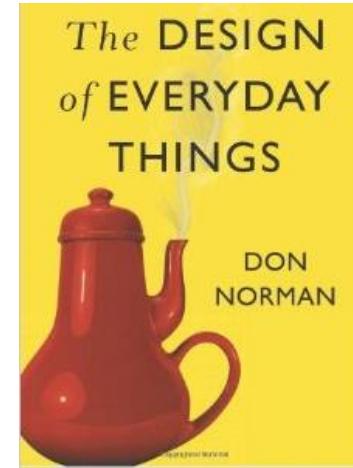
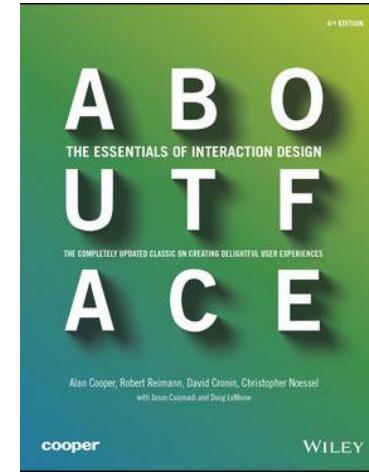
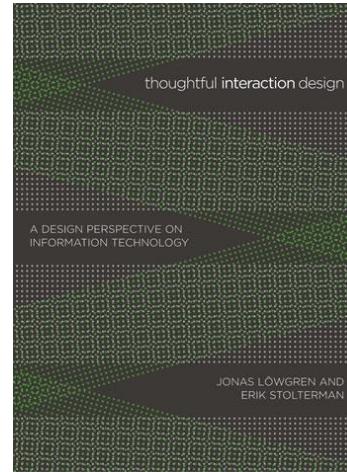


It is going to be a mess

The solution might be to simple solve wicked problems as tame ones and deal with the resulting problems...

... or ...

... you could do you best at collecting user research, be experienced at interpretation and continue to evolve test methods that ensure enlightened and well informed design choices.



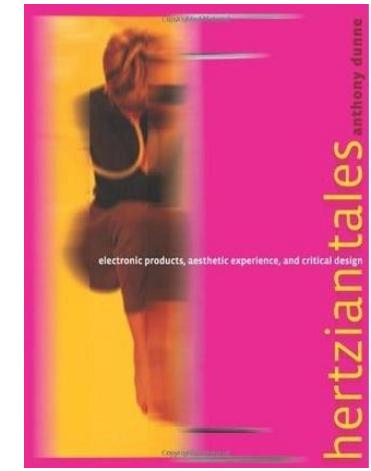
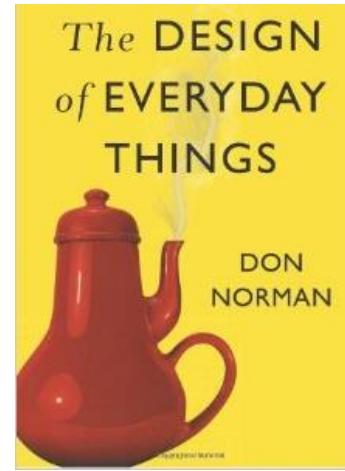
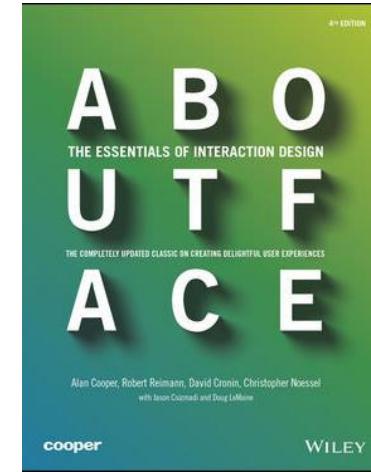
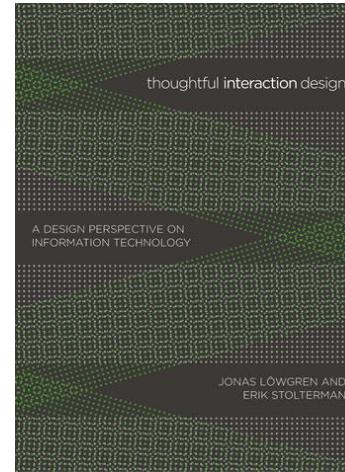
Solving wicked problems

This will allow you to move from
Undetermined problems to
Determined problems.

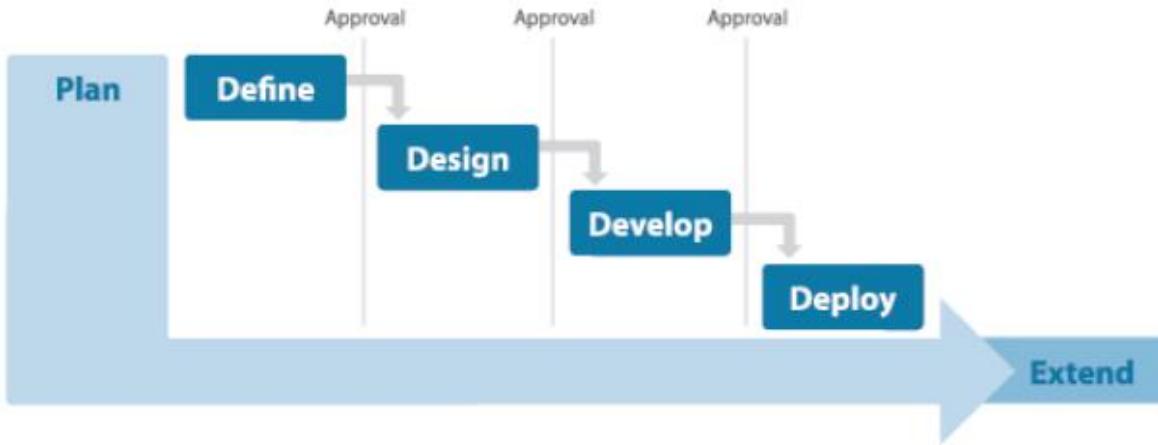
Being in a field of the *particular*,
theory will always be a guide,
never a recipe.

Part of the challenge is
“placement” (or framing) leading
to a *principle of relevance* for
knowledge and data collected.

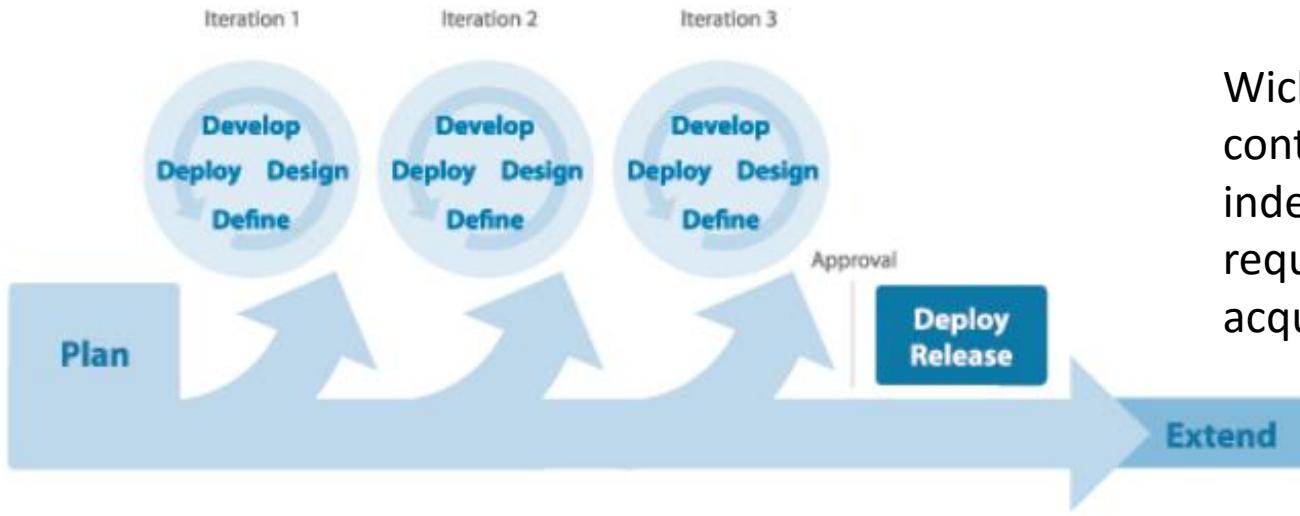
We must be agile so we can learn.



Solving wicked problems

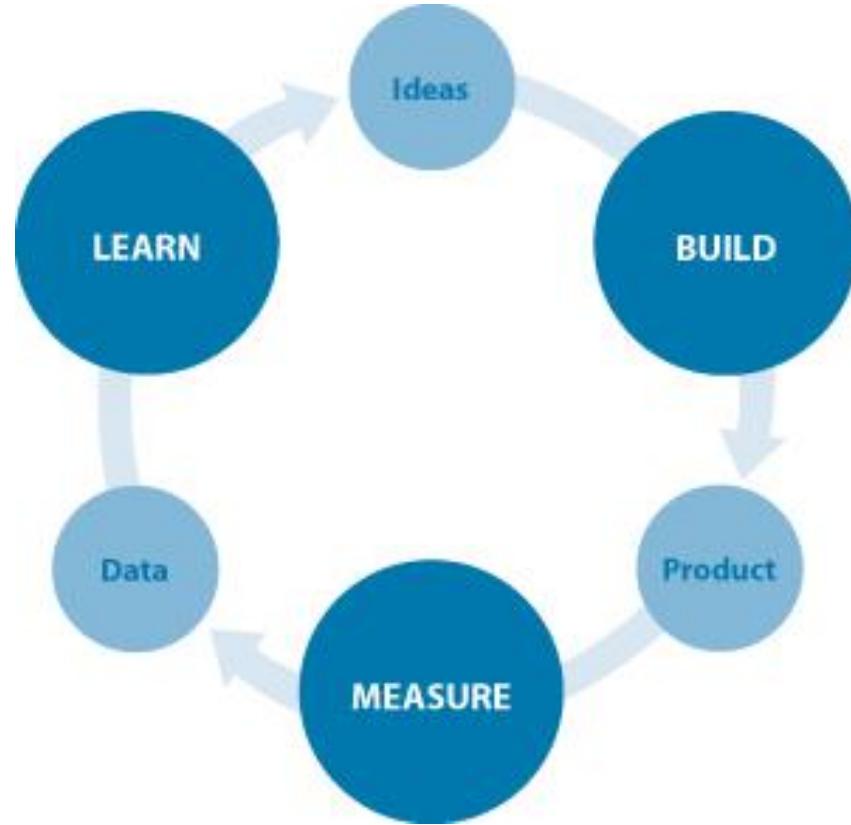


Part 1. Analytic problem definition where elements are found
+
Part 2. Synthetic problem solution where elements are balanced.



Wicked problems contain an indeterminacy and requires iterations of acquiring knowledge.

Waterfall or Agile

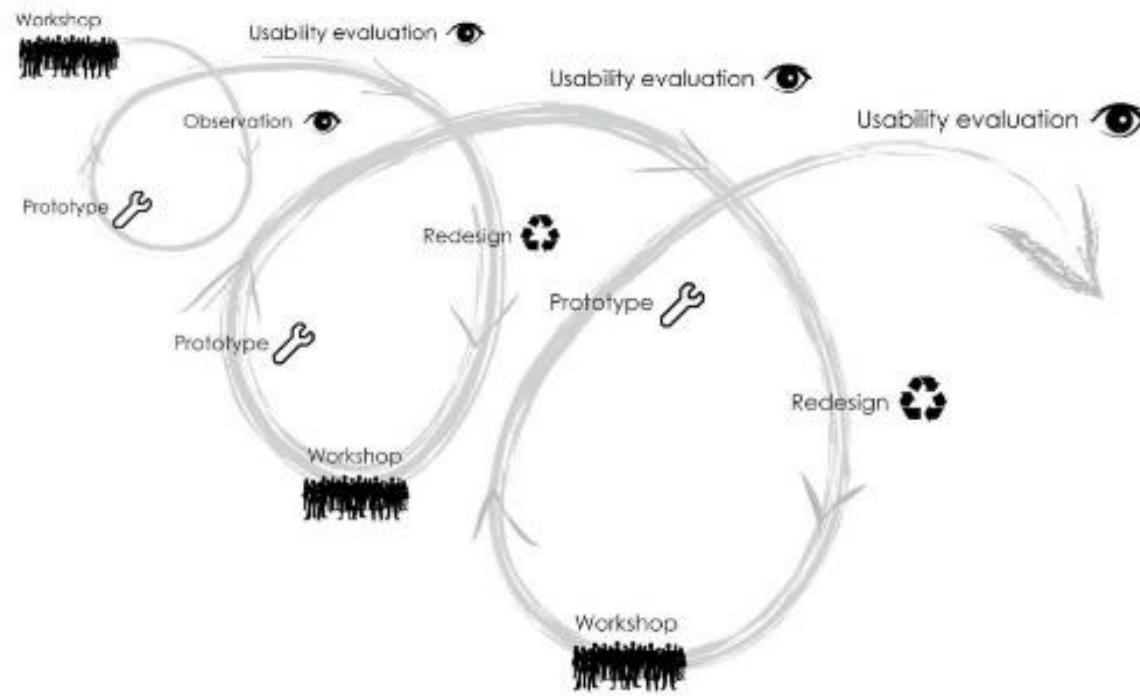


The soul of agile is not just iterations – it is moving from **under-determined** problems to **determined** problems by continuously looking back to learn and then look forward to plan ahead.

This allows us to change pace and direction to deal with wicked problems.

Agile

Be aware – the problem of documentation, and **agile** does not mean you can do what you want when you want!!



Making room for a wicked problem



The Counted

People killed by police in the US

[SEND A TIP](#)[DATABASE](#)[ABOUT](#)[READ ARTICLES](#)[JOIN US:](#)

PEOPLE KILLED IN 2016

1092

RACE & ETHNICITY

PER MILLION

TOTAL

10.13	Native American
6.66	Black
3.23	Hispanic/Latino
2.9	White
1.17	Asian/Pacific Islander



STATE

NAME

PER CAPITA

TOTAL

AK	NM	OK	DC	AR	AZ	WV	SD	CO	AL	DE
NV	KY	HI	MT	LA	OR	NE	CA	TN	MO	
KS	WA	SC	MS	FL	NC	WY	TX	VT	WI	
IN	ID	GA	UT	MD	MN	OH	VA	IL	MA	
RI	PA	MI	IA	NJ	ME	NH	CT	ND	NY	

ALASKA

Total killed: **8**
Population: **738,432**
Rank (per capita): **1 / 51**
Rank (total): **35 / 51**

[2016](#) [2015](#) [List](#) [Map](#)

Search by name:

eg Freddie Gray



Filter by:

State

Gender

Race/ethnicity

Armed/unarmed

Age

Classification

December 2016

85 people

DECEMBER 30, 2016

DECEMBER 29, 2016

DECEMBER 28, 2016

DECEMBER 28, 2016

DECEMBER 27, 2016

<https://www.theguardian.com/us-news/ng-interactive/2015/jun/01/the-counted-police-killings-us-database#>

**BUSINESS ACADEMY
AARHUS**

1. Wicked Problem:

- What type of website is this?
- What is this site's primary mission?
 - Is there another mission than the primary one?
 - Are the missions achieved? How or why not?
 - What data is required and how is the site maintained?
- Is there more than one user group?
 - How different are they, and do they have the same goal?

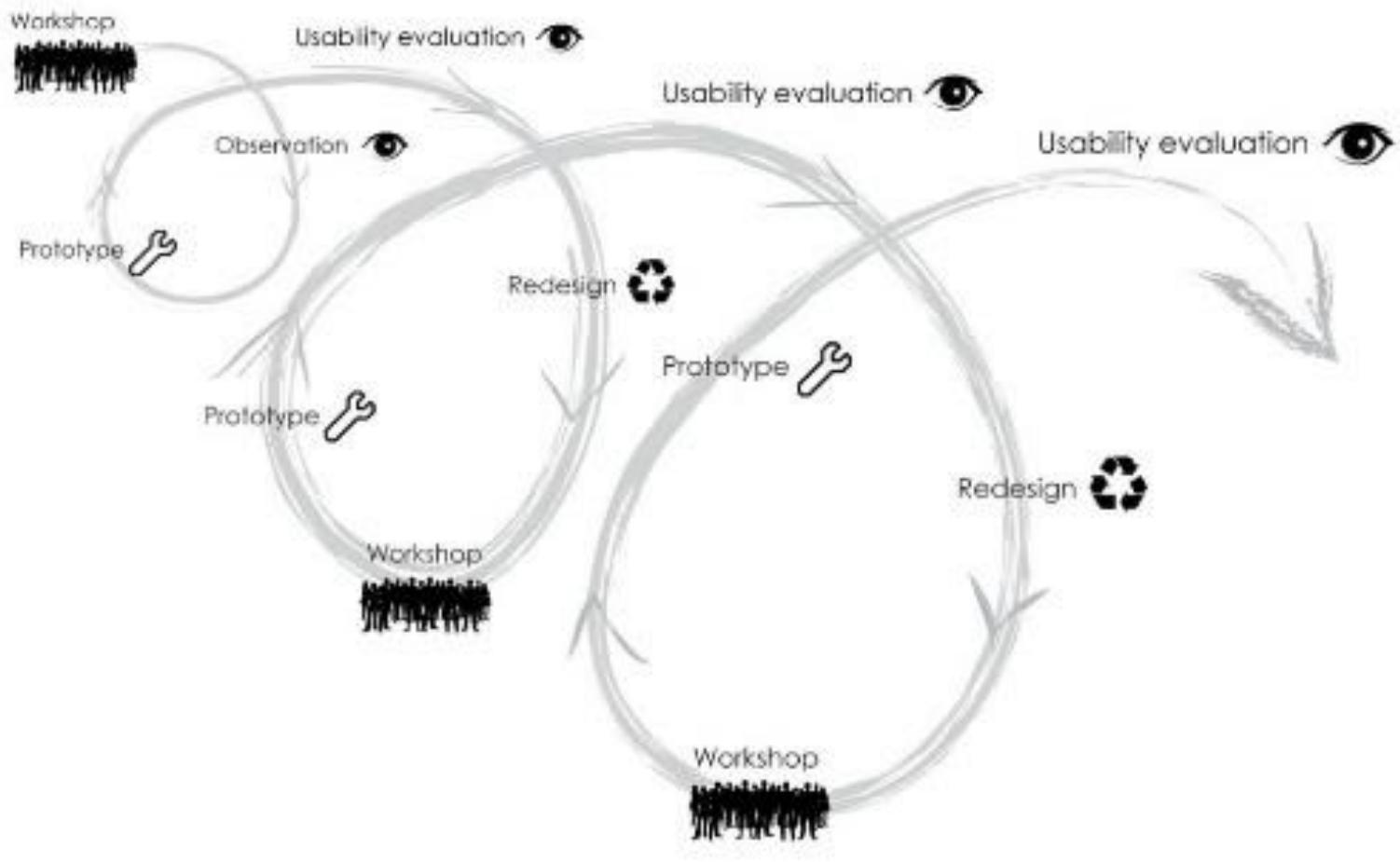
2. Design elements:

- How is discoverability and understanding supported?
- What would you re-design or A/B test to improve?

<https://www.theguardian.com/us-news/ng-interactive/2015/jun/01/the-counted-police-killings-us-database#>

Break 30 min

Time	Subject
10.30	Personas
11.10	Scenarios
11.55	Recap of the day + Homework and preparation
12.00	Dismissed



Making room for a wicked problem

The right method is governed by the problem:

What you want to know, controls the method – not the other way around.

Qualitative researches seek “saturation”

- “How many” is not the issue. Do you understand the phenomenon? Have you learned enough?
- Mere numbers are irrelevant. You want deep understanding.

Quantitative researchers seek statistical validity

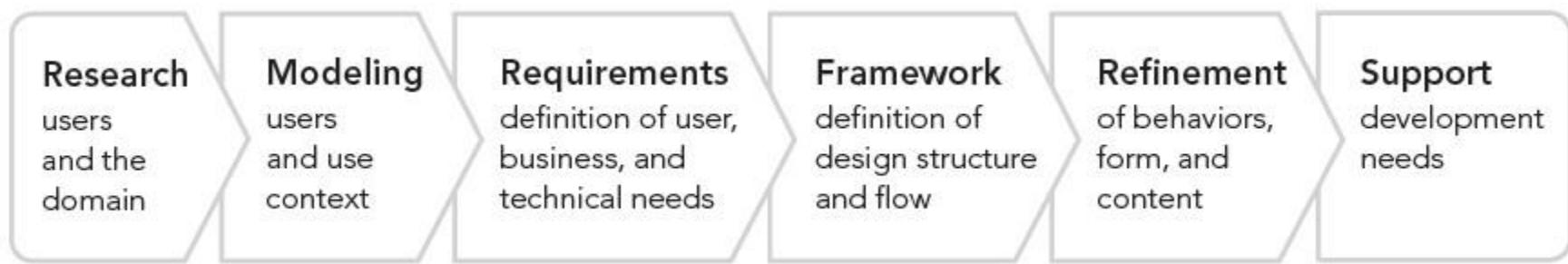
- Can you safely generalize to the population? Have you systematically excluded anyone?

Wicked problems and User Research

Being goal oriented

The method, or structure, of your research depends on the project(wicked):

- Brand, Marketing or Content site/app.
- Task-based site/app for single user or multiple users.
- Communicate brand values, Demonstrating values?
- Generate an interest and buzz?
- Enable users to actively doing something?
- Mobile version, web site, social media platform, print material?



Before you start any process

What is what in the life of a user researcher?

Make a diagram and
plot each method.

- Observation
- Interview
- Questionnaires in Surveys
- Competitor analysis
- Heuristic
- User driven usability test
- Focus groups
- Participation
- A/B split test
- Heat Map(Eye or mouse track)
- Analytics Report

Qualitative and quantitative



We talked about generating data...

... today we have talk about problems and understanding them.

Now lets talk about using data to solve problems!

Using user data

What is the difference between:

- Profile?
- Persona?
- Scenario?
- Use case?
- Journey Map?



Any experience working with either one? Examples?

Scenario vs use case vs personas

CSPO Courses
Location, Date, Event, Cost
London, 23-24 Feb, CSPO,
£1050 plus VAT
Munich, 5-6 Feb, CSPO,
€1400 plus VAT

Mary selects a public CSPO course

Attendees
Name, Email
Jon Nee, jona@bigcorp.com
Sam Ba, sam@bigcorp.com
Jen Om, jena@bigcorp.com

Mary adds three employees to the course

Payment Options
Invoice
Credit card
Cheque

Mary chooses how to pay for the course

Invoice Address
Big Corporation
1 Success Street
Anywhere AB11 2XY
United Kingdom

Mary enters the invoice address

TGC's
Terms and conditions text
...

Mary views the terms and conditions

I accept the terms and conditions

Mary accepts the TGC's and books the seats

Summary
You have successfully registered the following people ... on the CSPO course ...

Mary sees that the booking was successful

Pichler Consulting
To: Jon Nee
CSPO Course, 23-24 Jan
Dear Jon,
We are pleased to welcome you to our CSPO class ...

The attendees receive an email with details

Use cases focus on the technical system and less on the user himself:

Use cases can be used to focus on problematic interaction with a system that you want to improve. They tend to see all users as equal and make no distinction for context or use situation.

Use case

Personas are models that collect and qualify your research data. They are made up of the data you collected when you researched different users.

Personas are great for answering wicked problems... why?

Personas allows you to think and work with users and their attitudes and behaviours in specific contexts. They personify the design situation and evoking empathy.



Figure 3-1: If you try to design an automobile that pleases every possible driver, you end up with a car with every possible feature that pleases nobody. Software today is too often designed to please too many users, resulting in low user satisfaction. Figure 3-2 provides an alternative approach.



Personas

Personas provide information about whom the user is. Including specific information about why the user wants to engage with a certain product, but not how this is done.

“Personas model goals”.

Personas are used to build trustworthy scenarios focusing on actual people and not just what the designer thinks or what the client wants.

Personas

BRANDI TYLER

PROFILE Narrow Feet

GENDER Female

AGE 36

LOCATION Los Angeles, CA

OCCUPATION Receptionist; \$38k

MOTIVATIONS

Brandi gets very emotional about shopping for shoes in retail stores because she rarely can find a pair that fits her narrow feet. Recently, she's turned to online shopping to avoid the hassle of shopping in stores. Brandi found Munro after Googling "narrow width shoes" and reading other reviews online about the company.

GOALS

- Needs an SS (4A) width shoe
- Would like to purchase several pairs to fit occasion, style, and color
- Hoping to find that she doesn't have to sacrifice style or options when searching by fit

FRUSTRATIONS

- Not being able to filter available shoes by width
- Getting far fewer options when she applies width filter
- No other recommended shoes when she's looking at a pair she particularly likes

REAL MUNRO CUSTOMERS

"My whole life has been a choice between fit and style - when I was younger, I went for style & my feet killed me. As an adult, I tried for fit & the styles were for 95 year olds. This shoe is the 1st time I could get both."

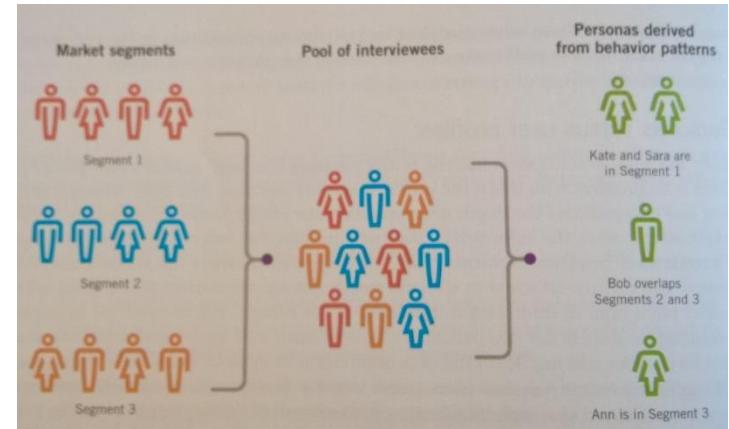
"I wear a 4A and I have struggled my entire life finding shoes narrow enough for my feet and more so in recent years. I stumbled onto this Munro brand sandal and was shocked to find it comes in up to a 4A width and it actually fit and is like wearing a glove! I now have two pairs in different colors."

"Love these slides so much I went out and bought two more pairs. I have very narrow feet and they fit perfectly. They're very stylish and I get compliments whenever I wear them."

Personas gather user groups together and represent them as archetypes (not stereotypes) which lets you test your design against a large part of the user group.

“If the designer does not respect his persona, no one else will either”

Use segmentation tools, user profiles and demographics to inform your persona, but don't rely on them.



Personas

Personas...

- ... are based on research.
- ... represents types of users of a specific product.
- ... explore ranges of behaviour.
- ... have motivations.
- ... represents relevant nonusers.

Understanding goals – Goals motivate usage patterns and arise from different cognitive processes. More on this later.

Cooper on personas

1. Group interview subjects by role. (What type of user did you interview)
2. Identify behavioural variables. (What behaviour is associated with that user type)
3. Map interview subjects to behavioural variables. (How type specific were interviewees)
4. Identify significant behaviour patterns. (Pick the most common behaviours as basis persona)
5. Synthesize characteristics and define goals. (Reality check and thicken common behaviours)
6. Check for completeness and redundancy. (What he says – evaluate personas)
7. Designate persona types. (Primary, Secondary and Supplemental)
8. Expand the description of attributes and behaviours. (Write a narrative from what you have)

How to build (believable) personas

- See more in Coopers text



'I need to know the businesses can be trusted.'

Occupation: Housing Coordinator

Age: 32

Home life: Lives with partner and her dog

Hobbies: Cycling, dancing and socialising

Key differentiators

- Priority listings are trusted
- Description of businesses aid decision making
- Reads reviews to help with decisions
- Writes reviews frequently

Use of the web:



Reads reviews:



Writes reviews:



Planner vs spontaneous:



Likely route to BT Exchanges:



Goals & Behaviours

Goals

- To contact businesses in priority listings as a first step, as assumes that they are tried and tested businesses
- To read reviews to help with decision making
- To contact companies via free call options to see if they are able to help her

Behaviours

- Uses Google as her starting point
- Has a couple of directories saved in her bookmarks
- Uses directories for research
- Uses specific sites to help with planning events, such as Event Elephant
- Reads reviews to aid decision making, but is likely to ask friends before she makes a significant purchase
- Writes reviews on sites she frequents

Internet Behaviour

- Always online, and loves to interact with her friends on a variety of social networking sites, such as Facebook
- Doesn't spend all her time in front of a computer at work
- An advanced computer user
- Owns an Apple Macintosh, and hates when sites do not work on her computer
- Like to use WiFi when travelling

Wish List

- Wants to be able to see the opening times of businesses to know if they are worth contacting
- Is interested to read what the size of company is, so she can make a decision on if they are worth contacting
- Social networking groups on BT to be able to see what trusted people have rated and recommended

Discuss what meaning is implied by the word:

User? Contact?

Human? Gamer?

Profile? Player?

Customer? Subscriber?

Visitor? Contributor?

Buyer? Fan?

Client? Person?



**How we talk about something
affects how we understand it!
Be careful when choosing your
words(understanding).**

"Do you believe in the users?"



Scenarios - any experience?

“Design problem solving by concretization”(104)

Don't do endless iterations with guesses.

Don't get caught in “I like” arguments.

Scenarios helps you to convey a narrative that captures **what a user does** to complete a task - and his **primary motivation** behind doing so.

Scenarios are based on your persona and knowledge of the design situation...

... your persona and knowledge of the design situation is based on you research of users and their goals.



Scenarios

Bad example of Scenario(or persona) creation:

Client:

1. I want to make page – I believe my users need this.
2. Tada! my page is done.
3. It is not doing to well?!
4. I do not know why (wicked problem).
5. Hire designer.

Designer:

1. Sure I will help – I will make a scenario.
2. I believe your user are like this and need this.
3. Propose a new page and launch it.
4. Still not doing to well
5. Same problem (wicked problem)



You may be an experience designer - and the site will properly be better.

But its not a valid solution. All you did was change the owners assumptions into your own assumptions!

Dont be this kind of developer

There are two basic kinds of scenarios:

1. Present scenarios (Use scenario or context scenario):
 - Show what is now.
 - Uncovers current user experience and potential problems.
 - Does not focus on a particular problem but shows the entire user experience - including both good and bad.

2. Future Scenarios (Solution scenario or key path scenario):
 - Show what ought to be when the solution is implemented.
 - Predicts user experience after implementation of changes.
 - Re-evaluates goal of design continuously.
 - Restate the goal of the design process and focus of team.

Present and Future Scenario

A good scenario answers the following questions:

- Who is the user? (the persona)
- What are the users goals and motivations?
- What is necessary for the user to accomplish her goal?
- Why would the user engage with this particular product or company.
What would lure the user to this moment?
- What does the user need to do – to interact with? How is the goal accomplished? And how does the user feel?



Scenarios

Coopers “easy” six step guide:

1. Create problem and vision statements. (Agree upon the “what” and “how”)
2. **Explore and brainstorm.** (Designing. Get rid of preconceptions and move from analysing data to solution thinking)
3. Identify persona expectations. (Copy-past from persona and fill out)
4. Construct context scenarios. (Make it believable and real – not systematic)
5. Identify design requirements. (Data, functions and context needs)
6. Moving on to the actual design part – the fun part ☺

How to build (believable) scenarios

Vivien's context scenario:

1. While getting ready in the morning, Vivien uses her phone to check e-mail. It has a large enough screen and quick connection time so that it's more convenient than booting up a computer as she rushes to make her daughter, Alice, a sandwich for school.
2. Vivien sees an e-mail from her newest client, Frank, who wants to see a house this afternoon. Vivien entered his contact info a few days ago, so now she can call him with a simple action right from the e-mail screen.
3. While on the phone with Frank, Vivien switches to speakerphone so she can look at the screen while talking. She looks at her appointments to see when she's free. When she creates a new appointment, the phone automatically makes it an appointment with Frank, because it knows with whom she is talking. She quickly keys the address of the property into the appointment as she finishes her conversation.
4. After sending Alice off to school, Vivien heads into the real-estate office to gather the papers she needs for the plumber working on another property. Her phone has already updated her Outlook appointments, so the rest of the office knows where she'll be in the afternoon.
5. The day goes by quickly, and she's running a bit late. As she heads towards the



Om morgenen
cykler Oliver af
sted mod stationen



Bliver undervejs i
tvivl om han når
toget. Skynder sig



Ankommer til
stationen
forpustet og varm

Vil parkere sin
cykel, men der er
fyldt i cykelstativet

Scenario example



Scenario example



Make it usefull

BUSINESS ACADEMY
AARHUS

Build a persona and a scenario!

Opsamling

Building Persona and Scenario

BUSINESS ACADEMY
AARHUS



Step 1. - Stand up and go get a card.

Step 2. - Find a partner to form a couple.

Step 3. - Ask your partner the question on your card.
Listen to the answer and correct it, if it is wrong.

Step 4. - Answer the question your partner asks you.

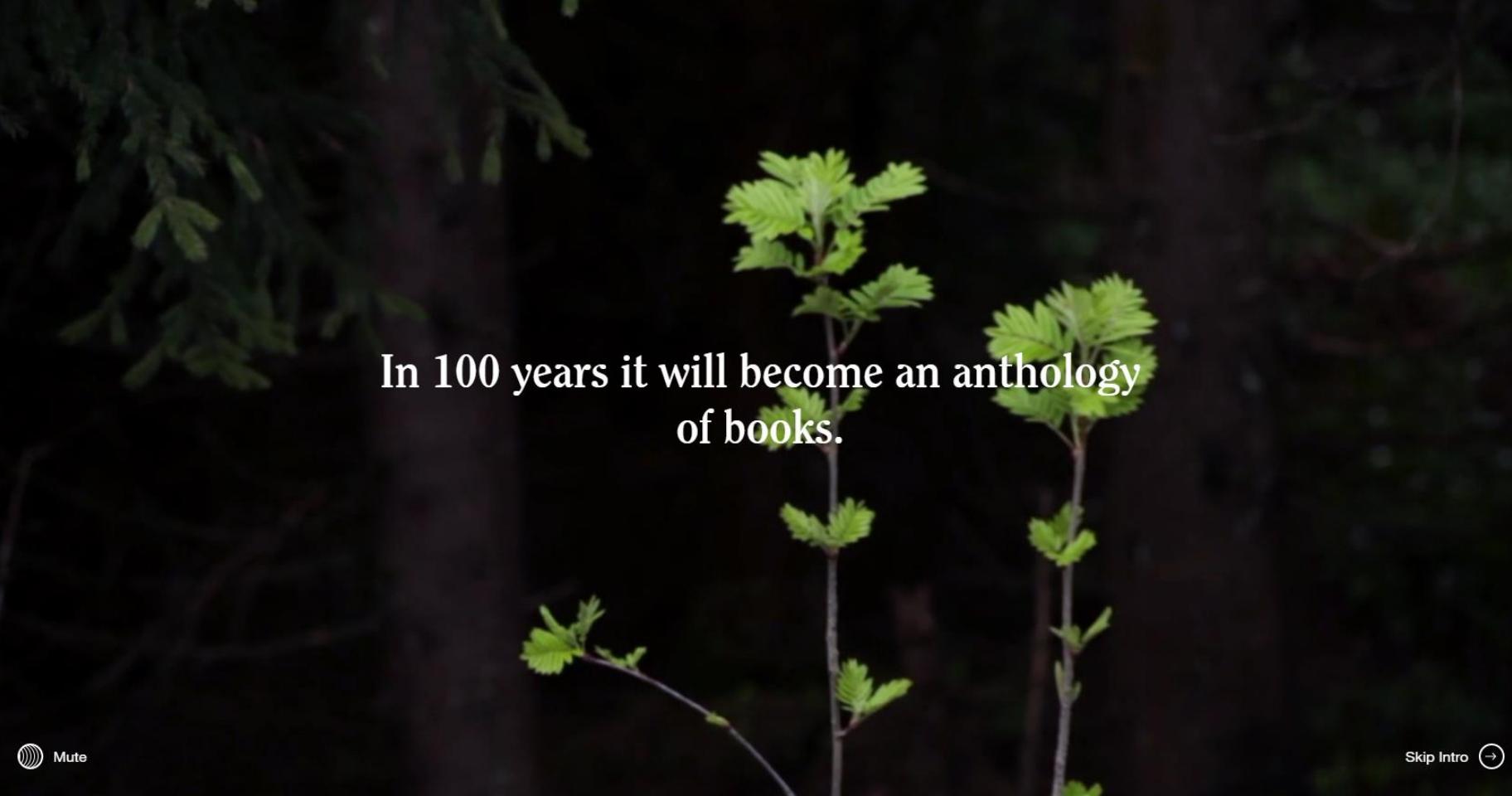
Step 5. - Switch cards with your partner.

Step 6. - Raise your hand and find a new partner.

Step 7. - Repeat from Step 3.



Quiz of knowledge



In 100 years it will become an anthology
of books.

Mute

Skip Intro

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BUSINESS ACADEMY
AARHUS

1. Wicked Problem:

- What type of website is this?
- What is this site's primary mission?
 - Is there another mission than the primary one?
 - Are the missions achieved? How or why not?
 - What data is required and how is the site maintained?
- Is there more than one user group?
 - How different are they, and do they have the same goal?

2. Design elements:

- How is discoverability and understanding supported?

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Wicked problems.

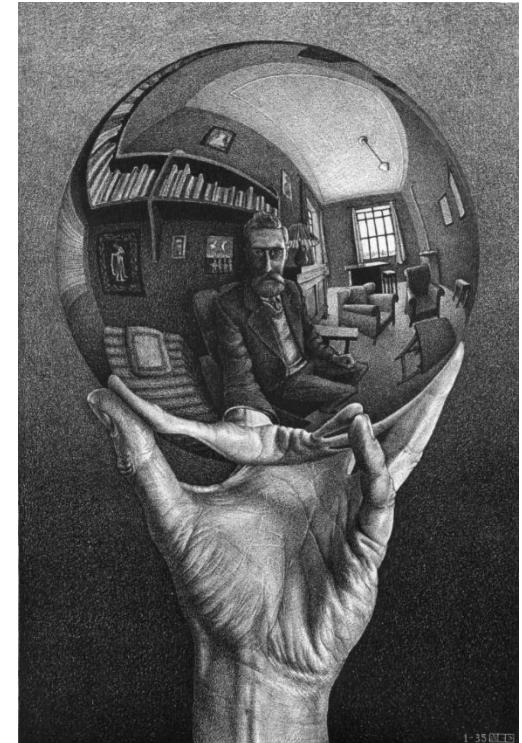
- Hard to define with no final solution.
- No room for trial and error but high responsibility.
- Involves people and social relations with different goals.
- Great way of analysing / understanding your situation.

The design process.

- Agile processes fit wicked problems.
- Waterfall process fit tame problems.
- Think in iterations of continued learning.

Personas and scenarios.

- Build on research to provide knowledge for decisions.
- Active tools for the design process ensuring user focus.
- Uncovers hidden truths and makes them operational.



What happened today?

Next time:

Topic: Journey map Workshop.

Homework and preparation

Lecture Date: 16. August 2016

Brief for Lecture #1

Title: The Evolution of Interface Design

Literature:

[Cooper]: Allan Cooper, About Face, 4th edition, 2014. Read *Introduction to the fourth edition* and pages 3 – 24 in *Chapter 1* (31 pages in total. Ca. 2.5 hours of reading).

[Dank]: Nick Dank: Web Design is NOT Dead, You're Just Talking About it Wrong, 2015:

<https://uxmag.com/articles/web-design-is-not-dead-youre-just-talking-about-it-wrong> (Ca. 30 min reading)

[Nouvel]: Sergio Nouvel, Why Web Design is Dead, 2015:

<https://uxmag.com/articles/why-web-design-is-dead> (Ca. 30 min reading)

Further reading:

The rest of Allan Coopers, About Face, chapter 1.

Purpose of the day:

To be "updated" on the state and direction of web development. Introduction to the fact that web development is not about making pretty websites, but acquiring knowledge about development process and design situations. (Based on text: Nouvel vs. Dank discussion + Exercise throughout the day).

To gain knowledge about the field of interaction design, including interface design and the Goal Directed Design process. (Based on Text: Coopers introduction to AboutFace.)

To learn about the past and possible future of HCI and get to know some of the many different directions within the design research and design field, including, GUI, NUI, MUI and CUI.

We will discuss different definitions of *Interface* and perhaps come to realise that *Interface* can best be understood as a fuzzy phenomenon. (Based on two Exercises)

Control questions – (before coming to class, be able to answer the following):

- Question for the Alan Cooper text:
 - What is the difference between Interface Design and Interaction Design?
 - What is Goal Directed Design Process?
- Question for the Nick Dank and Sergio Nouvel articles:
 - Why does Nouvel believe Web design is dead?
 - What does Dank mean by "Web design is not dead, you are just talking about it wrong"?
 - On what crucial point does Dank and Nouvel agree?

Wrap up – (Will be updated after class with corrections or added points):

Changes may occur

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