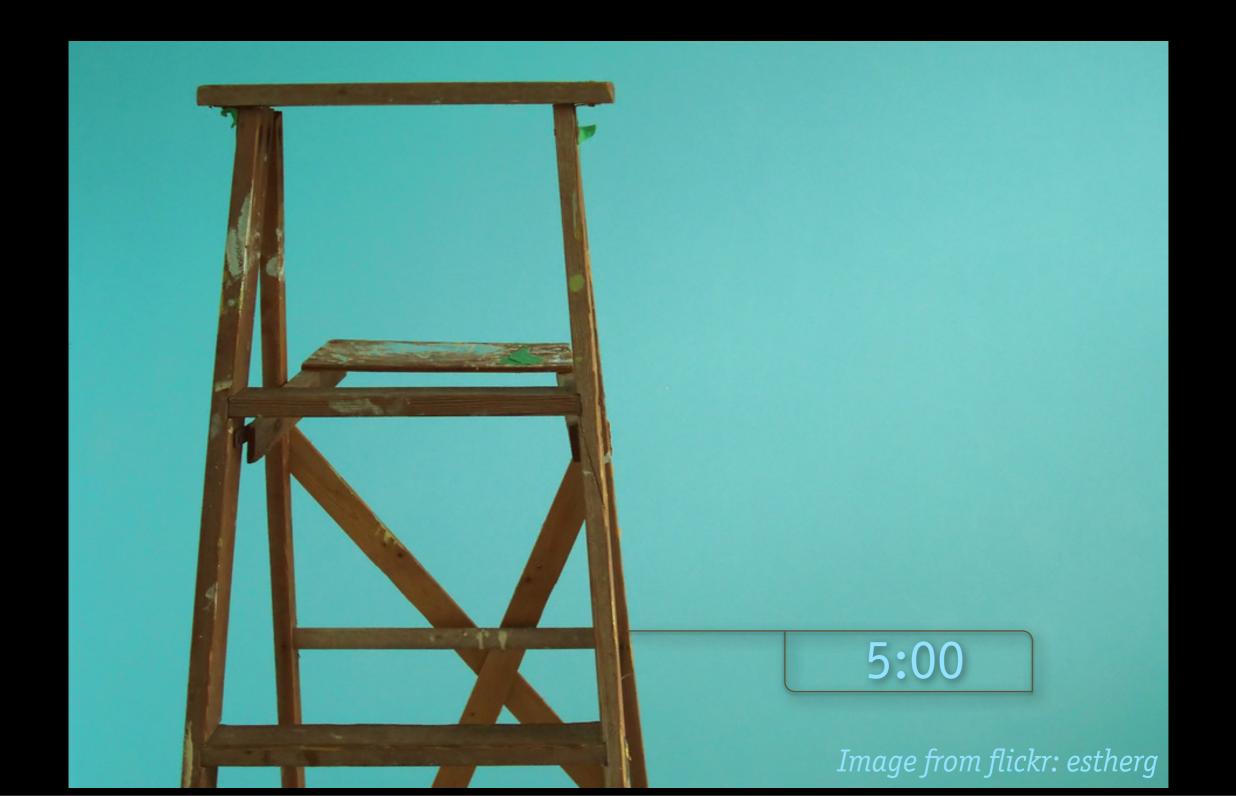
Needfinding

Press Play: Interactive Device Design | July 23, 2012

The Nature of Needs

Why observe people listening to music?

Needs Exercise Part I Design a New Product



Needfinding What Is It?

A Process for Discovering people's explicit and implicit needs so that we can create appropriate solutions.

What Do You See Here?

Not: What Do You Interpret Here



Distinctions For Needfinding

NEED is a VERB

A physical, psychological or cultural requirement of an individual, or of a group of individuals.

SOLUTION is a **NOUN**

An object, action or process that satisfies a need.

Design Activity Part II Design to Solve a Need

shelf. To reach something on a

high

Appliances microwaves

Types of Needs



EXPLICIT

Directly expressed by the needer.

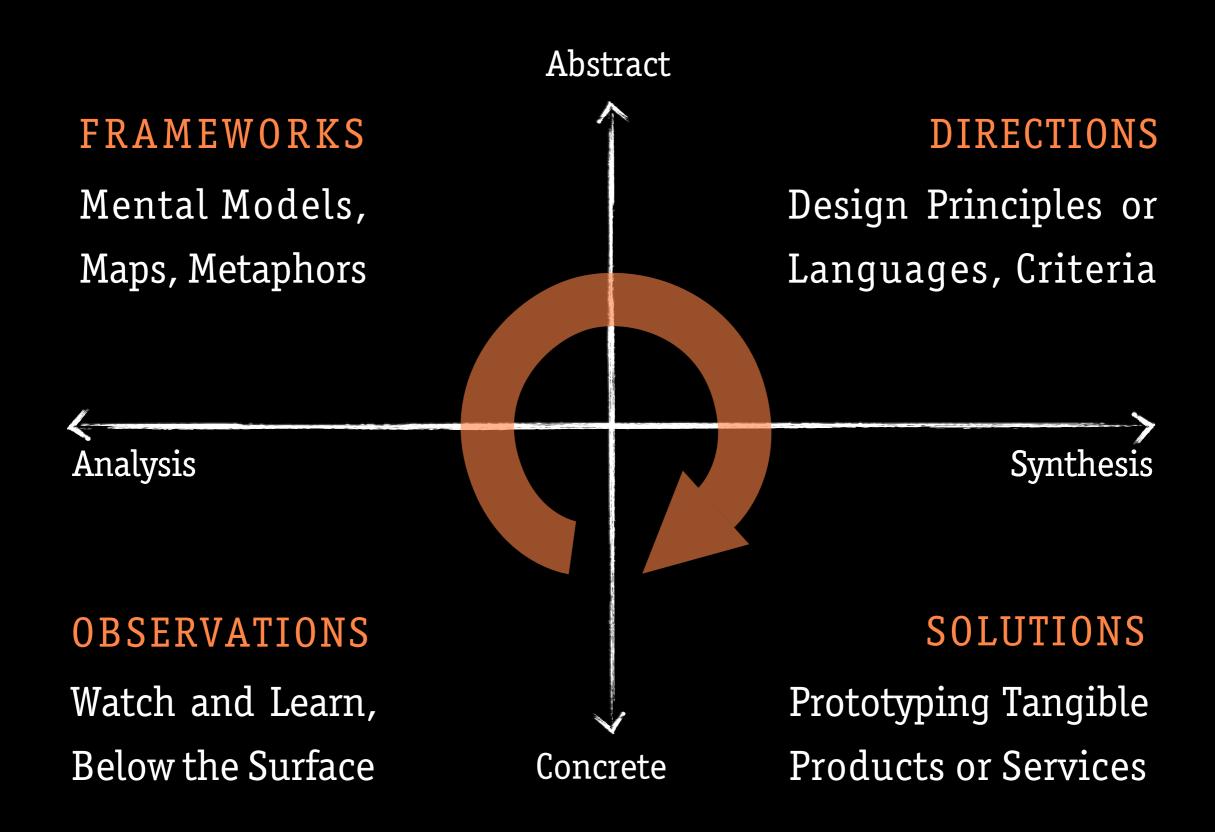
Or perceived by the needfinder.

IMPLICIT

Not directly expressed by the needer.

Requires active, creative interpretation by the needfinder.

Needfinding Process



How to Start Needfinding?

Learn to Observe (Watch & Ask) Thoughtfully

Observations Start by Watching

Watch. Get bored. Then watch some more.

Interesting, unexpected or notable things.

Look for 'workarounds' in what people do.

Emotionally charged moments or reactions.

Ask yourselves 'why' these should happen.

What to Watch For A.E.I.O.U.

Activities (at Many Levels)

Environments

Interactions

Objects

Users

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What to Find 'Nuggets!'

These are the observations/answers that are particularly interesting, unexpected or notable.

Nuggets tell you something about human nature that you didn't realize applied in that situation before.

Example Nuggets At the Meat Counter



Example Nuggets At the Gas Station



More on Observations Continue 'Observing' by Asking



Observe and Ask Try to Avoid 'Why'

Don't ask directly 'why' someone does something. They probably haven't thought about why before, and will come up with an answer just because you asked.

Think of indirect ways to get at the data that you want.

Ask open-ended questions, then follow where they lead.

The Nature of Needs

One of the Fundamental Challenges

Needfinding About Frames

The rule sets that people use to interpret the world.



About Frames Developing Empathy

Escaping your own frame is fundamental to needfinding.

To do so, you have to recognize what that frame is, and be sensitive to those of others. To 'get inside their heads.'

To effectively needfind, you need to forget about your problems, and care about other people's lives.

A Coffee Story

Frames and Needs



Not All Needs Are Equal

There is a Hierarchy of Needs

COMMON Need to be loved Shared needs of nearly everyone WHY?

CONTEXT

Need to get married Same age, profession, religion

HOW?

ACTIVITY

Need to go on a date Same context, do the same thing

HOW?

QUALIFIER Need to hold a hot cup Do the same thing, the same way

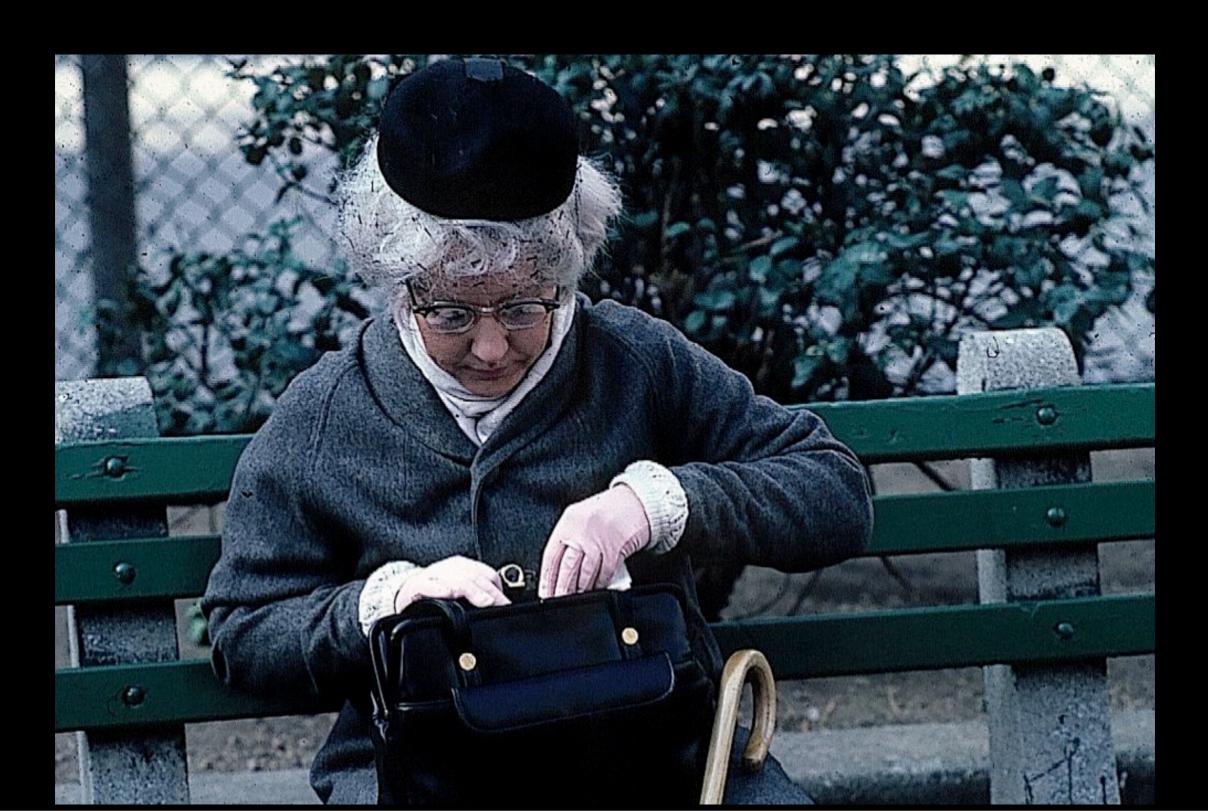
Need to get to the store

Need to set a meet time

Creating a Needs Hierarchy Common, Context, Activity, Qualifier



Empathizing with Others Patricia Moore



Key to Great Needfinding Indirectly, from Dale Carnegie



In-Class Activity

Photos and Verplank diagrams

Homework for Next Week

Deep dive: Preliminary MP3 player designs

Parts list, interface and software design