Rethinking

User Experience Design MATION MATION

What does it take to make an innovative leap?



What are the most Recent Innovations in your industry?

EST



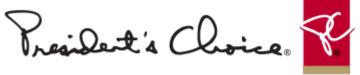






Microsoft*











L'ORÉAL®

Johnsons































_*3/1/5/=*









































ES

What Inhibits Innovation in Your Company?

















"What we sell is the ability for a 43-year-old accountant to dress in black leather, ride through small towns, and have people be afraid of him."





What does it take to *connect* with customers?



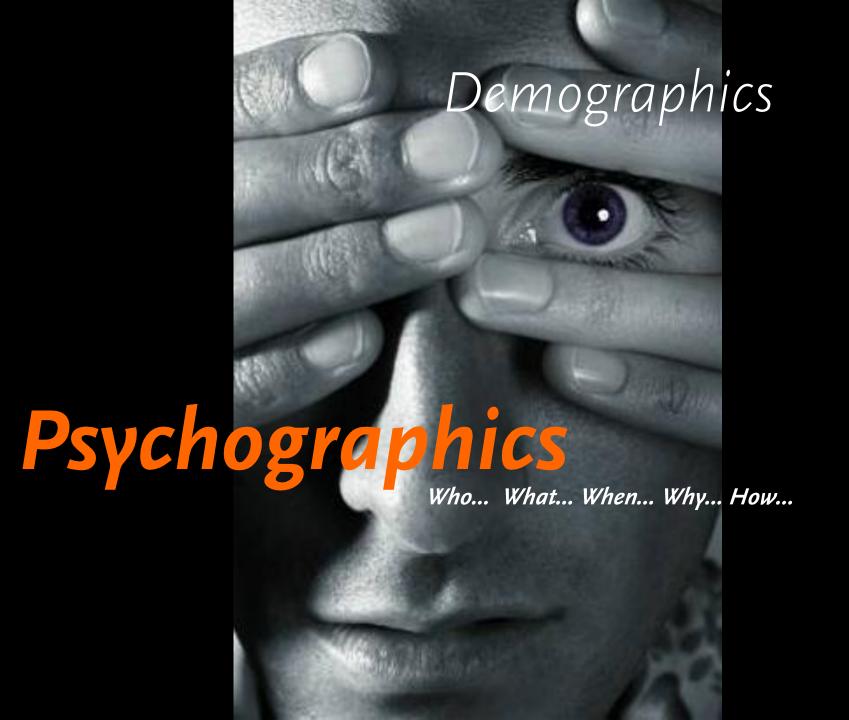
User Centered INCOVATION

Think
Feel
Behave





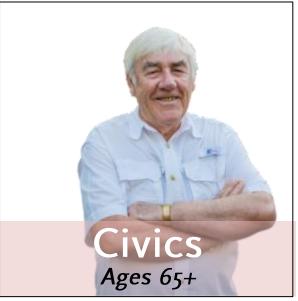
HumanResearch













DAY IN THE LIFE // WENDY



Jane is 37 years old. She is single, living in the St. Louis area. Ten years ago, Jane was diagnosed with multiple sclerosis. She works full time as a graphic designer in the business district, and very much enjoys it. Having been raised in St. Louis, she grew up as a large Cardinals baseball fan and loves following her "Redbirds". She remains close to her parents. They live in a neighboring suburb which makes it simple to get together often for small family gatherings.



WAKE UP

Wake up feeling pain in your hip from your gait change due to your foot drag, . hope you won't need a hip replacement down the least.



SHOWER

Close the book and take a quick shower. Remember not to make the water too hot. Incl. water takes too much out of you.

Drawn your legs. Wish you had a stool in the shower because you can't lift your left leg anymore and your balance to off especially when you are in the shower. Note to saf, install grab bars.



TAKE YOUR SHOT

into the kitches for your daily shot. Glad you removehered to inase it out of the hidge last wight. You don't remember much those days.

Decause you aren't suits ready emotionally for the shot....start the coffee.

Enough procrastination, time for the shot. OK, that is stone and you can pour yourself that cup of one and take your pills.



WORK LIFE

At work your co-workers turn help out. They run to pick up documents and take things to your boos for signature...not sure what you setuld do without them.



AFTER WORK

Long day, but now you can relax... too bad you can't go to the basefull games you used to love, but those long ramps and all those stars, getting to and from the easts are just too much... you can waith it in TV.

Time for a little on-line shopping while watching the garns because going to the mail is just not double now...you only shop in stores with shopping carts for halance these stays.





















STAY IN BED

Stay in bed reading for a while because your eyes played tricks on you last night just at an exciting part of the story and you had to put the book down.



GET READY

Get diressed...glad you left the buffons doire on your strict because you don't have time to find with those. Prixt on your "tigly" shores while longing for the styleich levels that used to be such a just of your identity.

Flate the blow dryer ... it is not and it weres you out to hold it for so long. On well, such is the price of style and maintgeing some normality.



DRIVE TO WORK

Glief your advocate was able to get you a lete start time at work... because everything ast takes longer and sitting in rush hour traffic is as firing.

That gay giver you a dirty took again when you palled lefts the handlicase parking place. You may not look handlicaspest, but if he only knew how you felt.



BATHROOM BREAK

Off to the bathroom again, damn bladder and you probably won't even be able to go.



END OF THE DAY

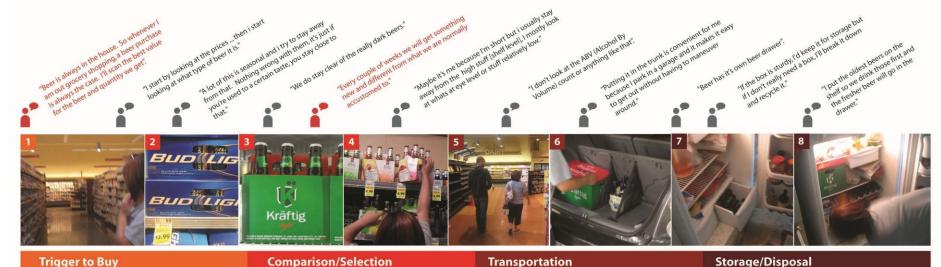
Wine, you are fred. Must be the heat getting too and from the car. Time far best, wonder what tohornov will hold.



DABBLERS: Rita's Beer Journey

Rita is a Dabbler. She is beginning to take an active interest in beer in the same way a foodie is interested in food. Her standard drink is a light beer or pale lager but she is also trying new beers on a monthly basis. She wants to learn about a wider variety of

beers, and sticks to beers that are on the edges of those she has already tried. She isn't interested in seasonal offerings or out of the ordinary products that exceed her limited but growing knowledge. Rita is more price sensitive to products she doesn't have much information about.



Trigger to Buy

Description

Description

Description

Description

Since her grocery shopping trips usually require driving, and since she always keeps beer in the house, it is just one more item on her grocery list. Although she doesn't scan the circulars, she is still on the lookout for good value since she has

a family.

Recommendation

Ensure in-store promotions are well-displayed. Make her aware of beers she may not know are in her price range.

For Rita, selection of a new beer is a time consuming process. She doesn't know a lot about beer, so she relies on descriptions and color to tell her what product to buy. Sometimes she looks at the Beer Rating card. She is drawn to graphics, but primarily wants to know what color the beer is - dark or light. She has trouble reaching for many of the products that interest her because they are not on the middle shelves.

Recommendation

Explore ways 6-pack can be more easily removed from high cooler shelves. Make beer characteristics more evident at a glance. Provide RIYL information on packages.

When Rita goes to Sams to get a 24 pack of bottles, she parks her car close to the exit doors so she can shorten the distance to carry it. When she gets home, she places larger items on the ground to unlock and open the front door.

Recommendation

Explore ways to minimize the picking up and setting down of the package, as well as ways to make larger packages more suitable to one-handed carrying.

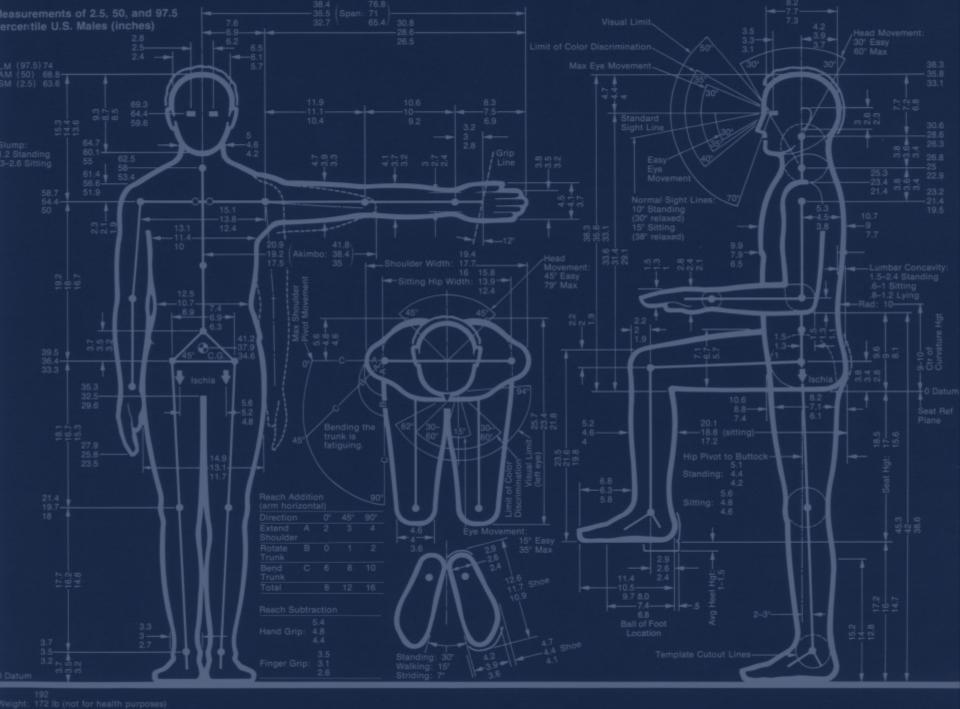
Since she has a small refrigerator, space must be used creatively for beer storage. As she puts beer in her fridge, a lot of other items must be moved around to make space. Rita makes use of crisper drawers and stacks her beers on their sides, facing opposite directions so they pack as tightly as possible.

Recommendation

Consider packaging configurations for a variety of spots/fridge sizes. Also, consider how beer bottles could be more densely packaged and/or dispensed to minimize their footprint in small refrigerators.



Emotional Ergonomics





Anatomy & Physiology

McGrouther and Colditz: Interactive Hand - Therapy Edition



27 Bones

37 Muscles

Dense Nerves at Fingertips







Smell

Using design cues to invite the interaction of smelling

Impregnating materials with scents

Taste





Perception

Reduced vision is a prominent issue with consumers 40+ years old.

Design Factors:

- Difficulty distinguishing colors
- Reduced transmission of light
- Presbyopia
- Near-sightedness
- Glare sensitivity
- Contrast
- Dry eyes





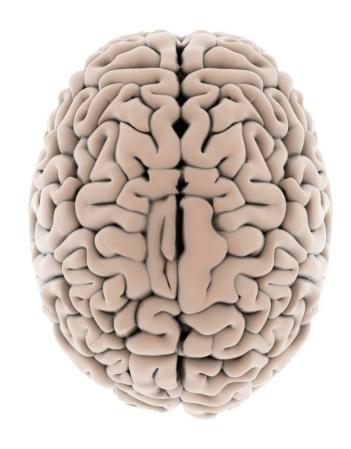
Thinking

The human brain gradually loses tissue from the third decade of life onward.

Cognitive deficits include:

- Cognitive impairment
- Mental slowing
- Memory loss

Different age groups think differently.





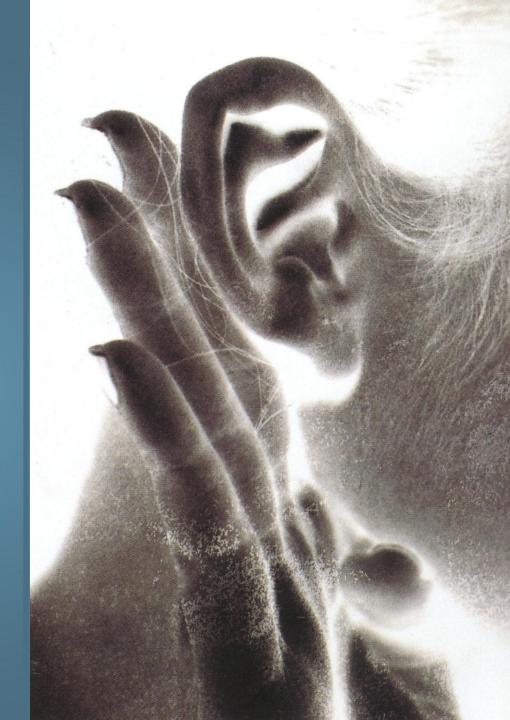


Hearing

Pleasurable vrs. notable acoustical signatures impacts hearing.

Auditory discrimination -- Hearing differences in acoustically crowded spaces.

1 in 4 adults over 65 suffers from hearing loss



Touch









Feeling

Because fingertips can sense surfaces details as small as microns... every detail matters!









Experience Design



EST

What is the Best Designed Product you own?





Easy pull-off lid

Uncluttered



- Clean/Simple Design
- •Anthropometric straps
- •Fuss free closures







iPhone 4S

- Minimal, geometric
- Focus is on content
- •Can't-live-without functionality





- One handed use
- Immediately clear vision
- Safe riding



Lunatik watchband for iPod Nano

- Enhance functionality
- Fits users need
- Fashion statement from user need









Swiss Gear Ibex Notebook Computer Backpack

- Plenty of storage pockets
- Durable / long lasting
- Enjoy looking at it

Yard Machine 3-Way System

- A life saver with a heavily wooded yard
- All-in-one
- Look forward to using it







- Strong but lightweight
- Modern design

XBOX 360

Recoil reducer technology



Microsoft Kinect – for XBOX 360

- Not just a game controller.
- Converts voice commands, gestures, postures, and expressions into Human-Machine inputs
- Being developed to be used for educating and Medical applications







- Delicious
- Quick & Easy Sandwiches
- Simple to clean



- Children love them
- Quick/easy

Jawbone "Up" Band

- Does its thing while I do mine
- Minimal setup
- Style with function

1966 Sting Ray

- Love the lines 1960's Muscle Cars
- Beautiful integrated hide-away head lights
- Great low profile with bulging fenders
- Incredible details on dashboard & badging





Beautiful Freedom

Beautiful Freedom

Beautiful Freedom

I 17:03

94% © 24

24

Prodo

Camera

Western

Western

Western

Freedom

- •Time saver
- Helps with everything

- beautiful, slick, professional & roomy.
- High performance 300+hp
- Bose stereo
- Best quality & reliability

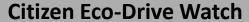
Naot Clogs

- •Long lasting 12 years
- Comfortable / good support
- Feel like slippers
- •Easy to put on without hands



LogTech Harmon

- •All in one
- Intuitive user interface
- Great feel in hand



- •Time Zone adjustment
- •Independent alarm set
- Analog & Digital display





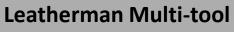
Dewalt Cordless Drill

- Perfect Balance
- Looks/Feels high quality
- Feels good and macho





- •Ideal capacity for single person
- Right balance of minimal features and function



- High Quality
- Solid feel in hand
- •All in one
- Covenant





Toyota Prius

- Safe touch buttons interact with dashboard screen
- Lock/unlock with keys in pocket



Traditional Wine Opener

- •All-in-one
- •Intuitive, never have to explain how it works
- Takes up little space

Anolon Advanced Saucepan

- Strainer pouring spout
- Heat proof handle
- Non-stick & dishwasher safe





OXO Smooth Edge Can Opener

- Don't need to be strong
- Doesn't take up counter space
- No sharp edges to cut yourself on

Philippe Stark Mercury Ice Cream Scoop

- Clean/simple/beautiful
- Easy to Clean
- Durable





Rowenta Iron

- Heavy = communicates quality & holds fabric down
- Simple/minimal features
- Durable had it for 15+ yrs



Titleist Lightweight Cart Bag

- Light weight
- Dividers for each club
- 8 zipped pockets
- Cooler for beverages

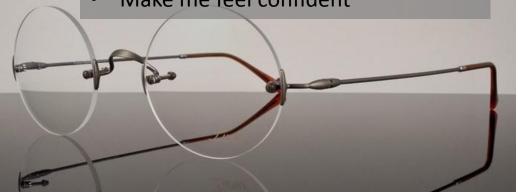
X-mini Speaker

- Portable & Lightweight
- Cute/sleek
- Charges easily w/ miniUSB
- Long Battery life



Lunor Rimless Frames

- Bridge nose support without pads
- Extremely lightweight
- Make me feel confident





ReSound mod Alera 7 – Hearing Aid

- •Hooks up to iphone, ipod, or TV
- •Allows me to enjoy daily things with more ease.

Diabetic Socks

- Wick away moisture
- Reduce friction
- Pillow like fill on bottom

Jitterbug Plus – Cell Phone

- •Simple (yes/no commands)
- Intuitive
- Easy to Read / large buttons



Ateco SS Cookie Spatula

- Paper thin
- •Perfect to slide under cookie without mess

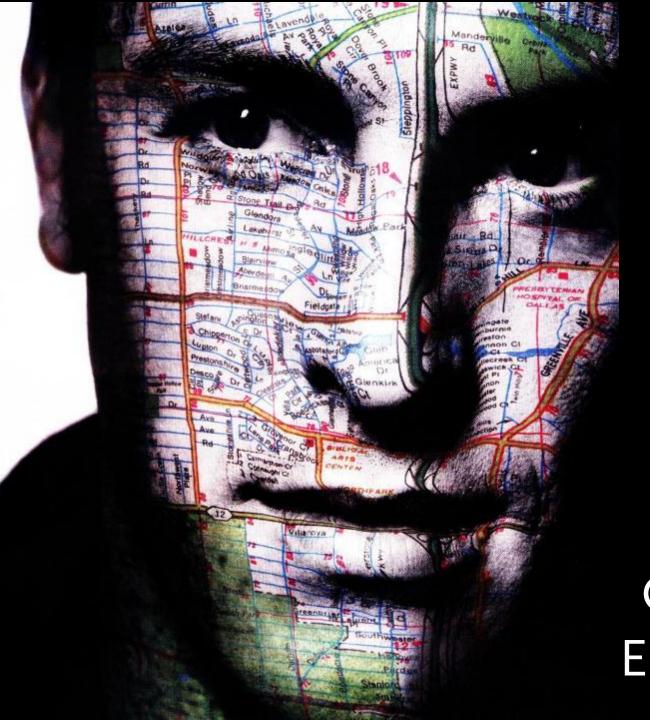








Dignity



Fun Simple Intuitive Obvious Engaging Gives back Easy-to-Use

MYTH: Innovation... It's easy!

...IF IT WAS EASY
EVERYONE WOULD BE DOING IT!

Masters of the Designed Experience

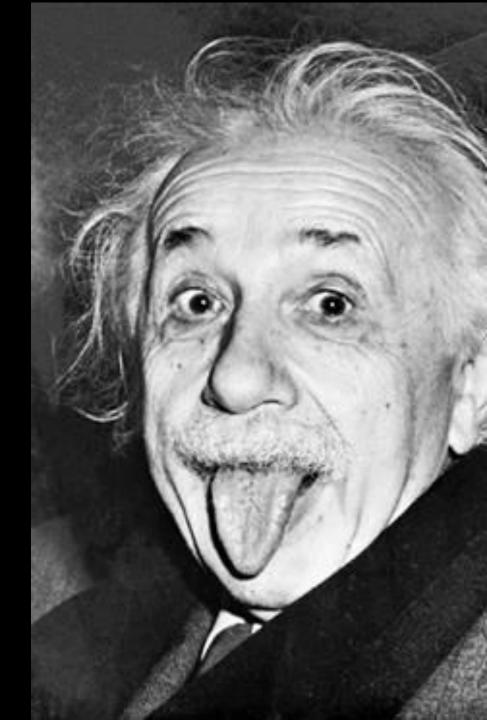


"In most people's vocabularies design means veneer. Nothing could be further from the meaning of design. Design is the fundamental soul of a man made creation." Steve Jobs

Ergonomics Strategy

"If I had 20 days to solve a problem, I would take 19 days to define it."

Albert Einstein





"Whenever you see a successful business, someone once made a courageous decision."

Peter F. Drucker



Innovation Killers

We tried that already.

We've never done that before.

We don't do it that way here.

That never works.

It's not in our budget.

It's not an interesting problem.

We don't have time.

Executives will never go for it.

It's out of scope.

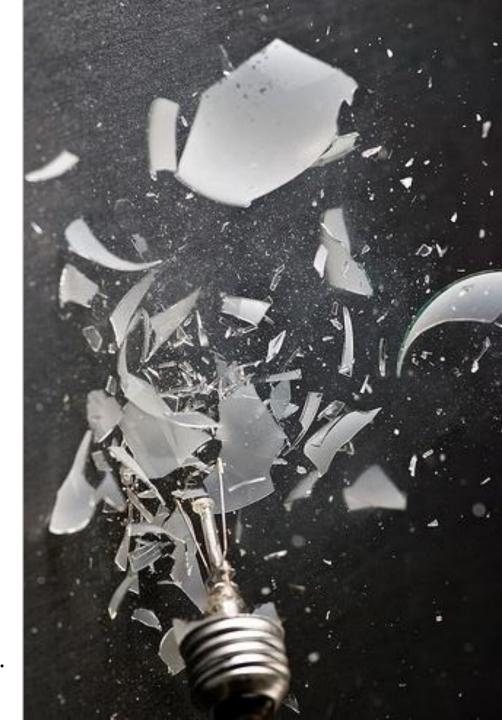
Our customers won't like it.

Our customers won't get it.

It won't make money.

How stupid are you?

You're smarter with your mouth shut.



User Centered INIOMATION

Empathize with users

Ask yourself "What If?"

What can be done now?

What is the next Big Idea?

Have innovation Sheppard

Fine all "Innovation Antibodies"

Find out what's broken first!



"Metaphase has increasingly melded scientific research and aesthetics in designing new products – changing the reputation of a field once view as frivolity."

Chicago Tribune

















