DESIGN CASE: GAMIFICATION OF ERP A USER CENTERED DESIGN APPROACH

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- Now: UX Design
- Science Master in IT: Games+UX
 IT University Copenhagen
- Previous: Architect



AGENDA

- **1** Premises:
- gamification
- emotions
- motivations

- **2** Project:
- design framework
- personas
- concepts

TODAY'S MOST USED DEFINITION

Gamification

the use of game elements into non-game applications to drive users' engagement.

GAMIFICATION?!

the infinite game - - Jesse Schell

- Getting points for brushing your teeth.
- Getting points for lucid dreaming of a Pepsi add.
- · Life itself becomes a game.

gaming can make a better world

- - Jane McGonigal
- Playing games can raise awareness on oil shortage.
- Playing games can raise trigger positive emotions.
- Playing games can even solve famine.

gamification is bullshit - - Ian Bogost

- It's just about points!
- Users will get bored very fast.

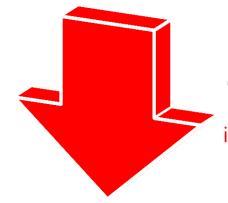
getting gamification right

- - Sebastian Deterding
- Needs to mature towards gameful + playful design.

Missing now:

- Meaning challenges with personal significance
- Mastery providing goals and feedback
- Autonomy free & safe play space that can be shared

UNDERSTAND ETHICAL DELIMAS



Games are the only force in the universe that can get people to take actions against their selfinterest, in a predictable way, without using force.

Gabe Zicherman

Gamification tricks people into believing that there's a simple way to imbue their thing... with the social, psychological, and emotional power of a great game.



UNDERSTAND ETHICAL DELIMAS



Games are the only force in the universe that can interest, in a productions again

Merge users goals with the business goals in order to satisfy and be ethical to both sides.

3 5

psychological, and emotional power of a great game.



GAMIFICATION OF ERP

Research project motivation

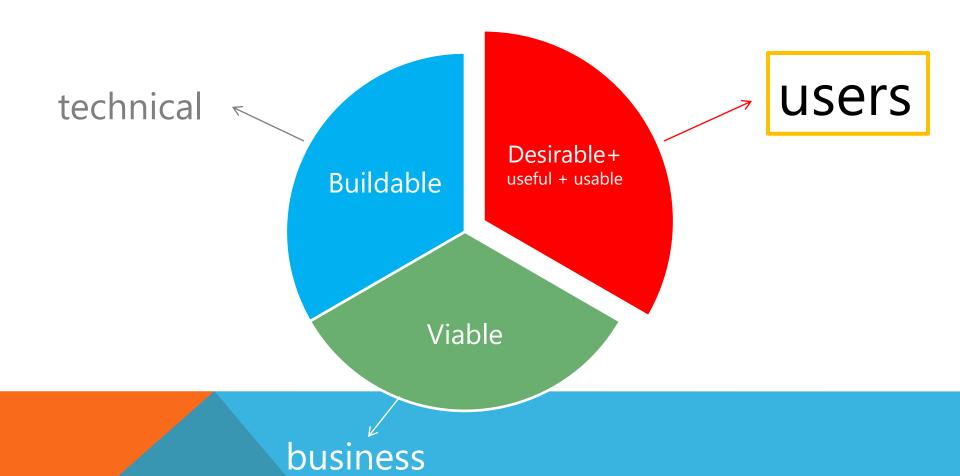
Digital products need better design methods - - Allan Cooper

• using cross references from games and game design process has the potential to provide the necessary tools for designing better emotional experiences for ERP users.

Method

Putting the user in the center with its needs, desires, whishful thinking, personality, emotional state, motivations, context of its environment – UCD approach

The Gamified ERP



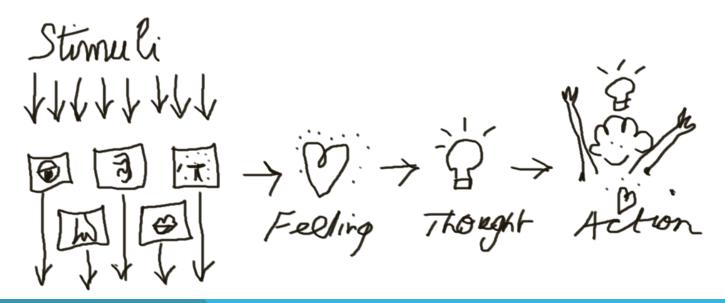
DESIRABLE > DESIRE

Philosophy:

Human desire is the fundamental motivation of all human action.
 Thomas Hobbes

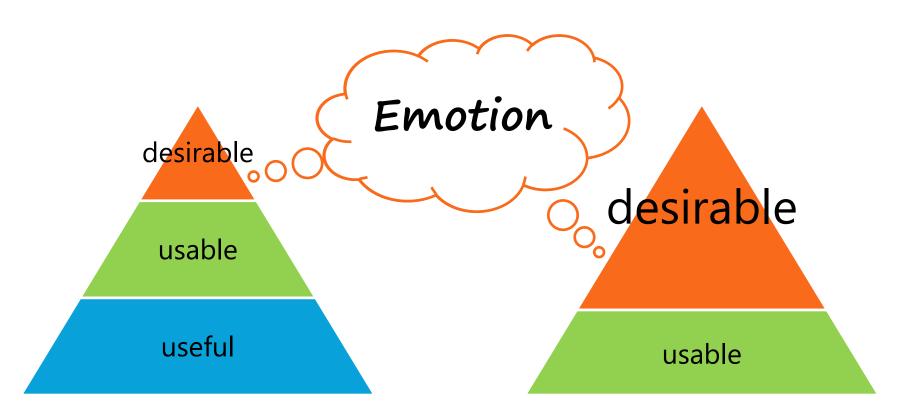
Psychology:

Emotion is action readiness tendency to change.
 Nico Frijda



DESIRE IN UX

DESIRE IN GAMES



WHY EMOTIONS?

Why emotions?

 When dealing with people, remember you are not dealing with creatures of logic, but with creatures of emotion.
 Dale Carnegie

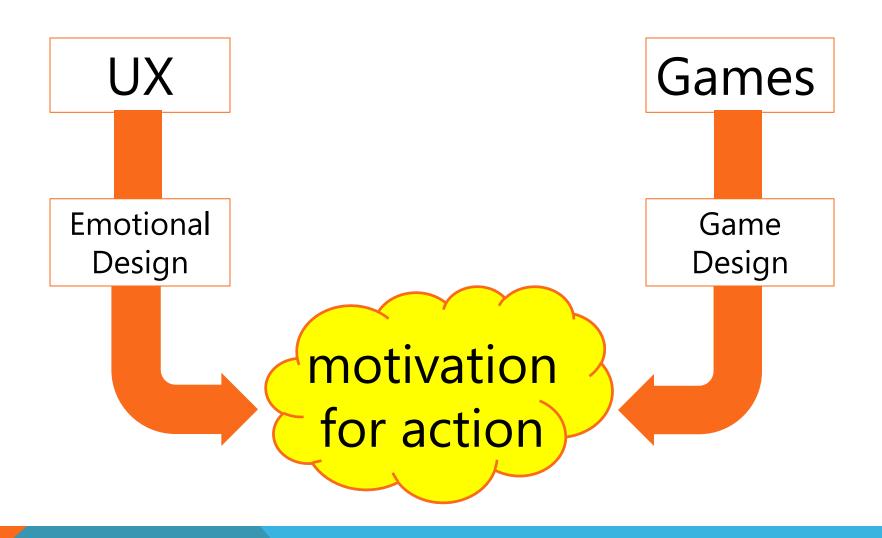
Why emotions of digital users?

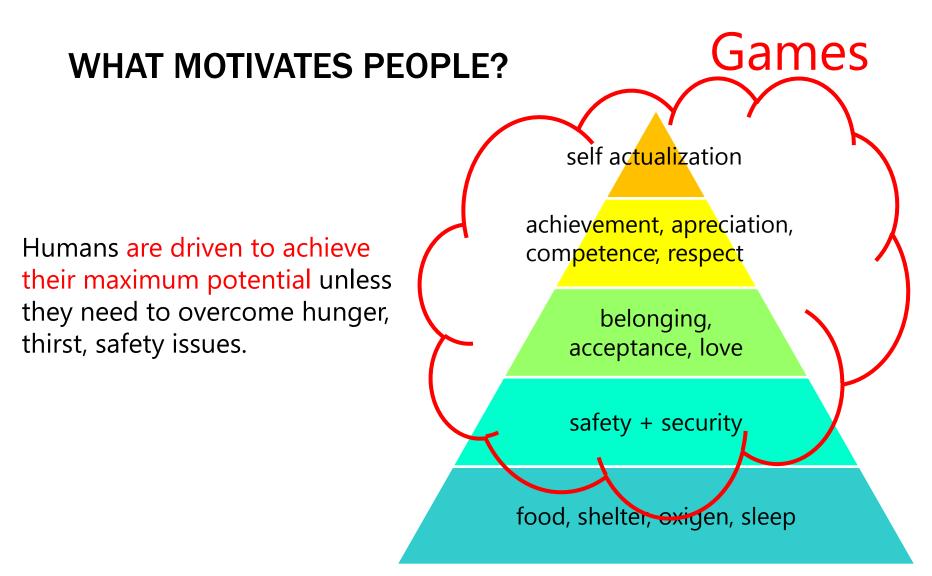
 Emotions not only contribute to a richer quality of interaction, but they directly impact a person's ability to interact in an intelligent way.
 Rosalind Picard

Why emotions and gamification?

 video-games can become the dominant medium, and the emotional drug of choice for the next generation of junkies when seeking that emotional fix. Jonathan Sykes

2 ROADS TO GREAT DESIRABLE EXPERIRNCE





Maslow pyramid of human needs

MY TAKE ON TODAY'S MOST USED DEFINITION

Gamification

the use of game elements into non game applications to drive users' engagement.

Games have the attribute of moving between media.

Jesper Juul

Gamification should be composed of cross media references from games to other products, especially digital ones, that can provide a suited emotional experience to users.

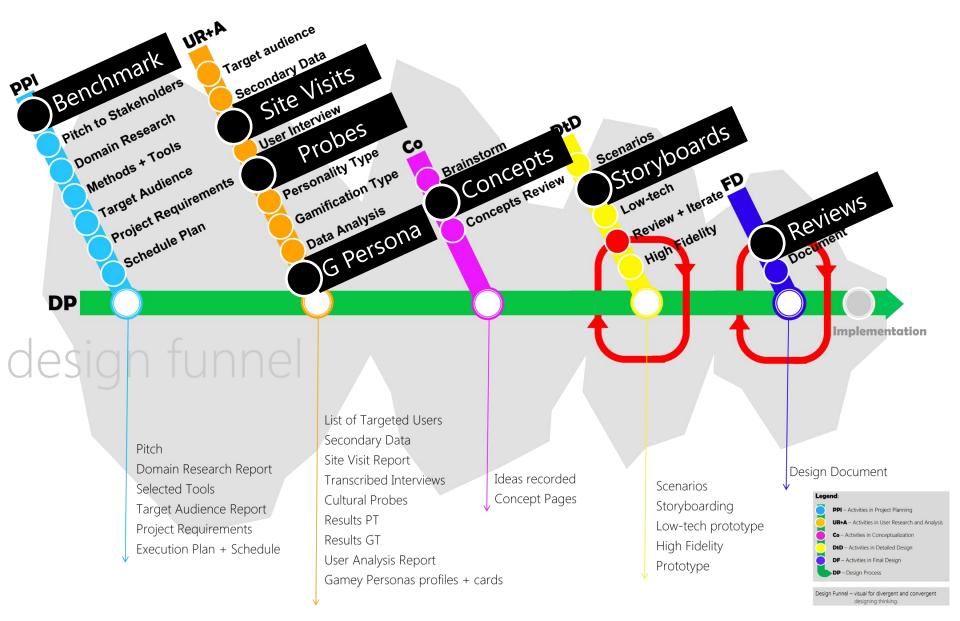


my definition

MY GAMIFICATION GUIDELINES

- 1. access is voluntary and not enforced.
- 2. facilitate fun learning.
- 3. facilitate the appropriate Fun Key for its context of use.
- 4. present opportunities for ludic experience that intrinsically motivates curiosity and exploration.
- 5. design for flow that facilitates optimal user experience.

- 6. ethically constructed and implemented.
- 7. give clear feedback and allow for its customization that best suits the user.
- 8. should not decrease productivity or efficiency of the existing software.
- 9. provide a safe play space for user to explore means of creating generative tools.
- 10. respect the ethical goals of both the users and the business.



Benchmark

Pitch to Stakeholders

Pomain Research

Methods + Tools

Methods + Audient

Froject Read

Schedule

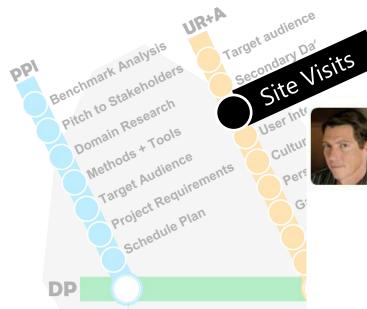
Microsoft Office: Ribbon Hero 2



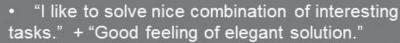


• SAP AG: Lead in One - Video









· "I play with who ever wants to play with me."



"Buying and selling: exciting, it's like a game."
 "Score the goals." "Be the best!"
 "Success – to have it!"



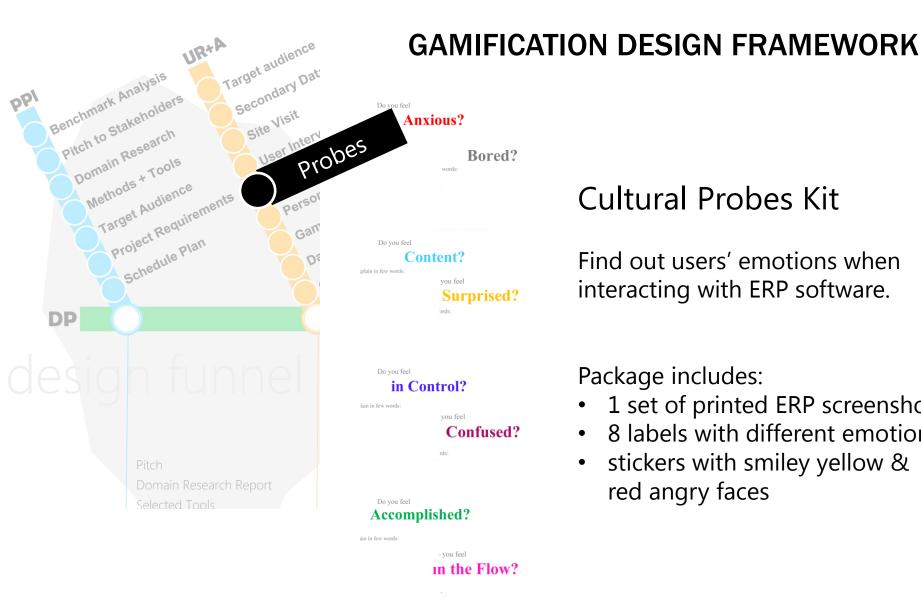


- "Learn by playing, try till you master the technique."
- "I like to joke, it cannot be only work, work, work."
- "Take decisions that will have consequences; it is rewarding for me









Cultural Probes Kit

Find out users' emotions when interacting with ERP software.

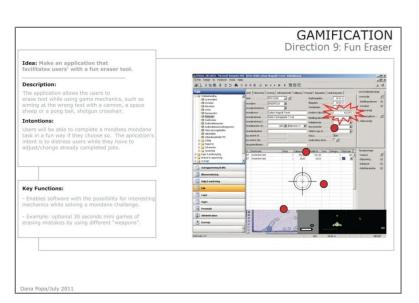
Package includes:

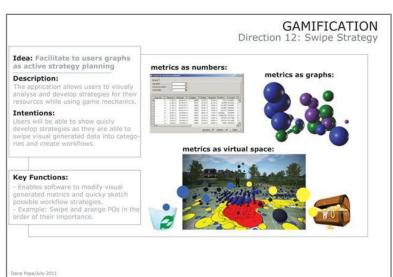
- 1 set of printed ERP screenshots
- 8 labels with different emotions
- stickers with smiley yellow & red angry faces

Playfull user reseach tool

UR+A Target audience **GAMIFICATION DESIGN FRAMEWORK** Secondary Date Benchmark Analysis Pitch to Stakeholders Site Visit Domain Research User Interv Play Gamey Methods + Tools Ms Pesonas Cultural Personas Personas Target Audience Project Requirements Person Gam Schedule Plan G Persona e the best! Score the goals! Success: to have it! Team Player keeps Calm SUSAN KEN JOHN curiosity Selling: exciting Physical rather than Digal plays for Skill Mastery it's like a GAME to Socialize

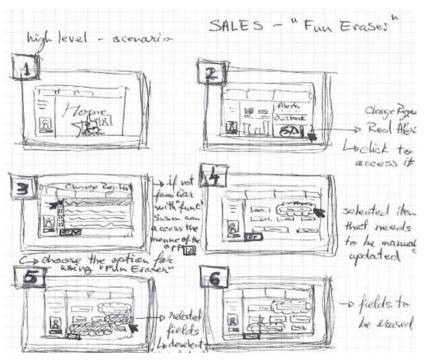
Facilitate a common design language

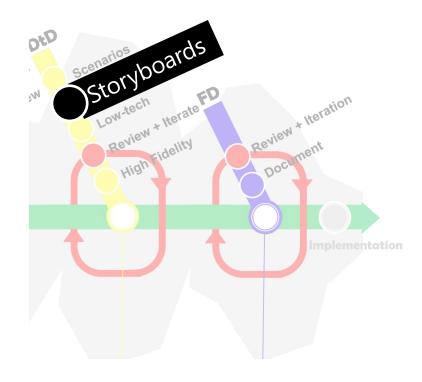




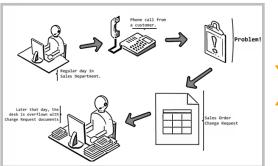


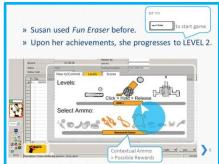




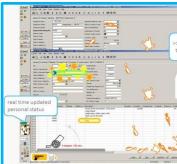


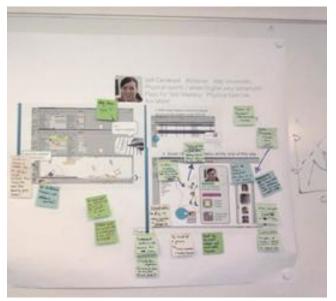






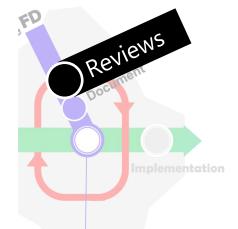












Design Document

Design must be reviewed with all members of the development team: UX, PM, DEV, TEST

Thank you!



ADDITIONAL NOTES ON PLAY + GAMES

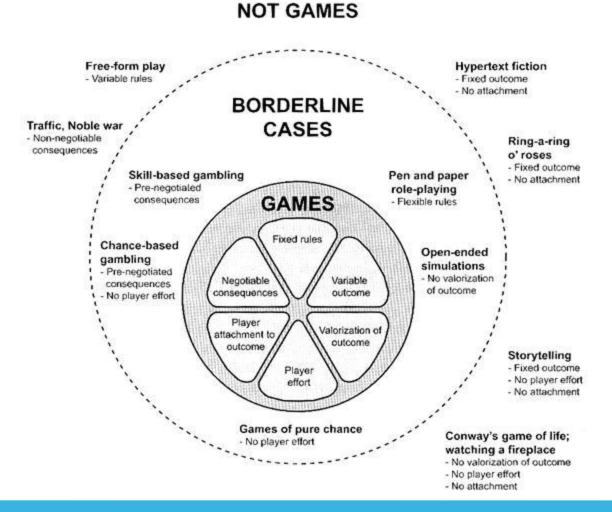
- i. What is play?
- ii. What are games?
- iii. Fun in Play and Games.
- iv. Playful vs Game like experience.
- v. Design for playful vs gameful experiences.

WHAT IS PLAY?

Huizinga – Homo Ludens

- The phenomena of play is not a biological phenomenon but a cultural one, where culture itself bears the character of play.
- First and foremost, all play is a voluntary activity.
- Play is superfluous. The need for it is only urgent to the extent that the enjoyment of it makes it a need.
- Play is innate: eg kids learning about gravity.

WHAT ARE GAMES?



Half Real: between Real Rules and Fictional Worlds. 2005. Juul

FUN IN PLAY + GAMES

Huizinga – the fun of playing, resists all analysis, all logical interpretation and it is precisely this fun element that characterizes the essence of play.

Raph Koster – Edutanment: fun is just another word for learning.

Juul – different games emphasize different types of enjoyment and different players may even enjoy the same game for entirely different reasons.

Lazarro – Functional theory of fun: people play games for Easy Fun, Hard Fun, Serious Fun, People Fun.

PAYFUL VS GAME LIKE EXPERIENCES

Miguel Sincart – Games don't matter

Ecology of play that is not limited or sanitized by games

Sebastian Deterding – Questioning Gamification

 gamification is being constructed on few gameful elements lacking consideration of playful elements, which provide longer lasting users' engagement.

DESIGN FOR PLAYFUL VS GAMEFUL EXPERIENCES

Bill Gaver

 Designing for Homo Ludens: the Drift Table. Technologies for the home can support ludic activities, which are motivated by curiosity, exploration, and reflection rather than externally defined tasks.

Mihaly Csikszentmihalyi:

 Flow theory – the psychology of optimal experience for best user engagement.

Marc LeBlanc:

 Mechanics- Dynamics-Aesthetics game design framework that translates into Rules/Systems/Fun.