

# Visual Nudges for Enhancing the Use and Produce of Reputation Information

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## Introduction



## Reputation Information

- Can be presented by both:
  - visual means;
  - textual means.
- Both have some problems.



## Reputation Information

### Visual Means

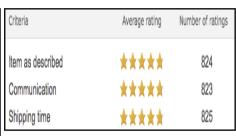














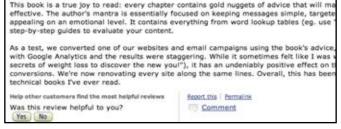
#### Recommended



142

### Textual Means





This review is from: Web Copy That Sells: The Revolutionary Formula for Creating Killer Copy That Grabs Th





## Earlier Work



### **Previous Studies**

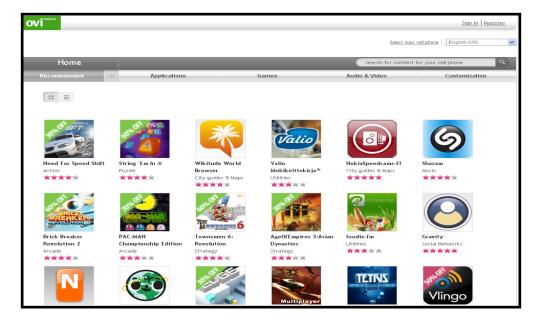
- Conducted user studies (consisting of user tasks & interviews) on:
  - WidSets: website for downloading & developing mobile applications.





### **Previous Studies**

- Conducted user studies (consisting of user tasks & interviews) on:
  - Nokia Ovi Store: Nokia's Internet service offering services in various areas such as games, maps, music & mobile applications.





## **Previous Studies**

 Focused on: current usage of offered reputation information.



## WidSets Study

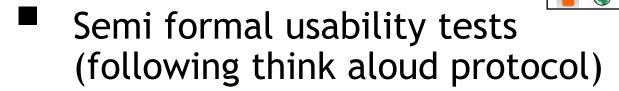
- The study was conducted through:
  - User interviews
  - Web based questionnaire
- Results:
  - Visually prominent UI elements act as main source of information for decision making.
  - Less prominent information was overlooked.



## Nokia Ovi Store Study

www.ovi.com





User interviews

#### Results:

- Lack of cohesion between different reputation elements.
- Users found quality & credibility of the reputation information questionable.



## The Study



## The Study

- Amazon (shopping), <u>www.amazon.com</u>
- eBay (shopping), <u>www.ebay.com</u>
- TripAdvisor (hotel & vacation reviews), <u>www.tripadvisor.com</u>
- LinkedIn (networking tool), <u>www.linkedin.cor</u>
- YouTube (video sharing), <u>www.youtube.com</u>
- Yelp (reviews & recommendations for local business), <u>www.yelp.com</u>
- Digg (social news), <u>www.digg.com</u>
- NowPublic (social news), <u>www.nowpublic.com</u>
- IMDb (serial & moview reviews), www.imdb.com
- AppStore (Apple's store for iPhone applications) www.apple.com/iphone/apps-for-iphone/







## Hypotheses

- Websites offering reputation information have problems with usability;
- More specifically, reputation information provided has bad usability;
- Visual prominence of reputation elements is guiding decision making process;
- Visually prominent elements on the websites are wrong;
- Visual nudging not working on these websites for enhanced decision making.



## Research Question

"Why is the reputation information underutilised?"



### Method

- Heuristic Evaluation
  - Based on Jakob Nielsen's heuristics.
  - Basic method to analyse the sites.

#### Nielsen's Ten Principles

- 1. Visibility of system status.
- Match between system and real world.
- 3. User control and freedom.
- 4. Consistency and standards.
- 5. Error prevention.
- 6. Recognition rather than recall.
- 7. Flexibility and efficiency of use.
- 8. Aesthetic & minimalistic design.
- Help users recognize, diagnose and recover from errors.
- 10. Help & documentation.





## Method

- Expert Evaluation
  - Focused on how the reputation information was presented on the selected sites.



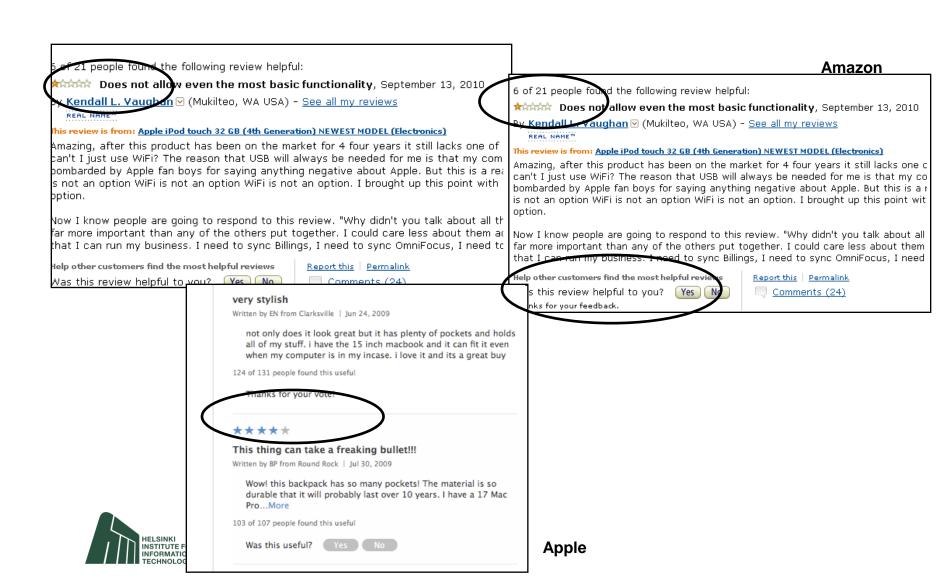
## Results



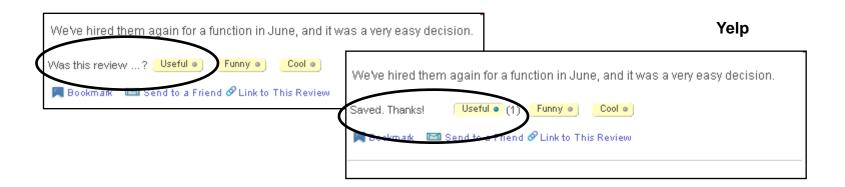
## Results for Heuristic Evaluations



# Heur 1: Visibility of System Status



## Heur 1: Visibility of System Status



#### YouTube





# Heur 2:Match Between System & Real World





eBay

Positive Feedback: 100%

Feedback score: 10890

[How is Feedback calculated?]



Digg



## Heur 3:User Control & Freedom

#### **Amazon**

This review is from: Apple iPod touch 32 GB (4th Generation) NEWEST MODEL (Electronic

Amazing, after this product has been on the market for 4 four years it still can't I just use WiFi? The reason that USB will always be needed for me is bombarded by Apple fan boys for saying anything negative about Apple. Bu is not an option WiFi is not an option. I brought up th option.

Now I know people are going to respond to this review. "Why didn't you ta far more important than any of the others put together. I could care less a that I can run my business. I need to sync Billings, I need to sync OmniFoq

Help other customers find the most helpful reviews

Was this review helpful to you? Yes

Thanks for your feedback.

Report this | Permalink 
Comments (24)



#### Digg



#### Congress Passes Historic Health Care Reform

newsjunkiepost.com — For the first time in generations, the US Congress has passed a bill reforming our nations health care system. Historical Attempts This lofty goal has eluded reformers ever since Teddy Roosevelt attempted it during



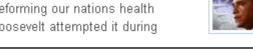


■ 3016Comments 

Share



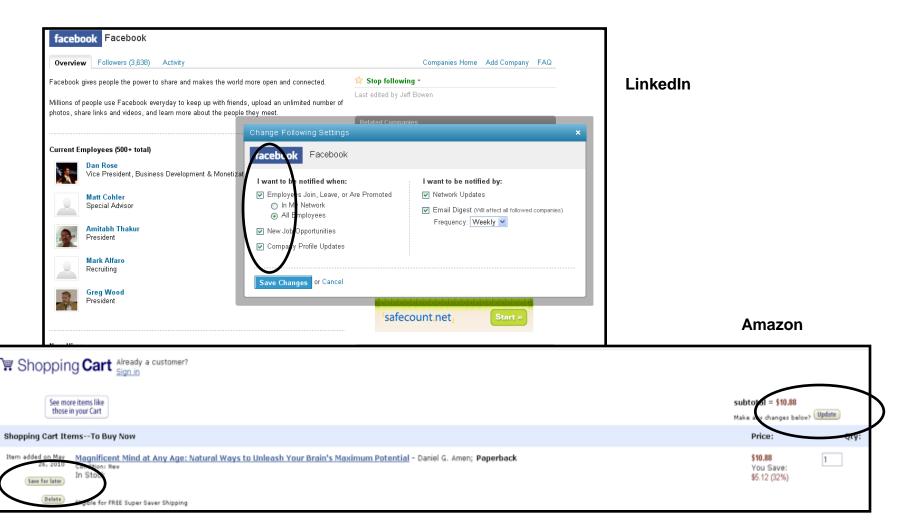
Made popular Mar 22, 2010







## Heur 3:User Control & Freedom





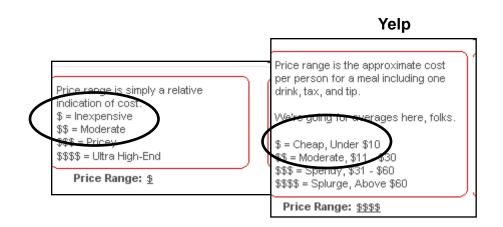
# Heur 4: Consistency & Standards



## Heur 4: Consistency & standards

#### **TripAdvisor**

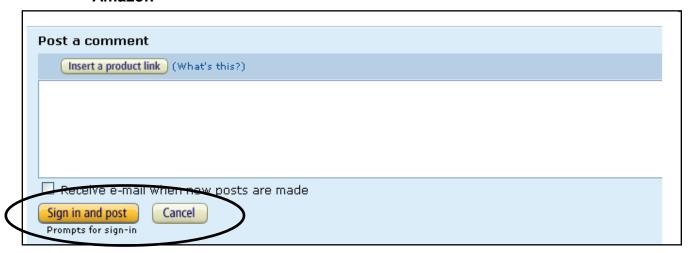






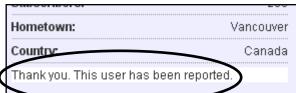
## **Heur 5:Error Prevention**

#### **Amazon**



#### Digg



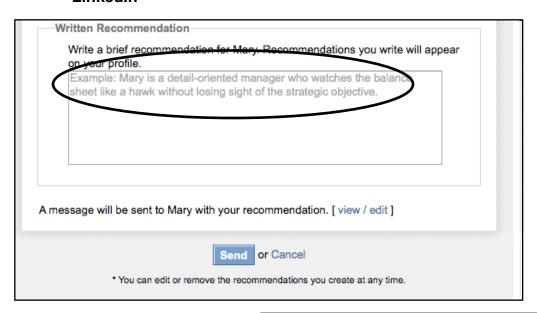


YouTube

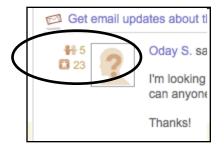


# Heur 6: Recognition Rather Than Recall

#### LinkedIn







#### **TripAdvisor**

	Mix & Match Airlines	Finnair	sas SAS	Blue 1.	Czech Airlines	airBaltic Air Baltic
Nonstop	<u>from <b>\$151</b></u> see below	from \$151	from \$172	from \$172		
<u>1 stop</u>	<u>from \$361</u> see below	from \$361			from \$373	See flights

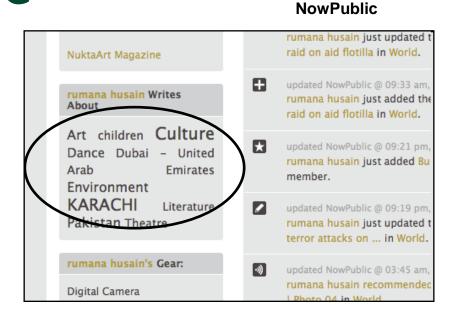
Prices are per person for roundtrip travel; they are e-ticket prices and include <u>all flight taxes and fees.</u> Prices do not include <u>baggage fees or other fees</u> charged directly by the airline.



# Heur 7:Flexibility & Efficiency of Use

#### **TripAdvisor**



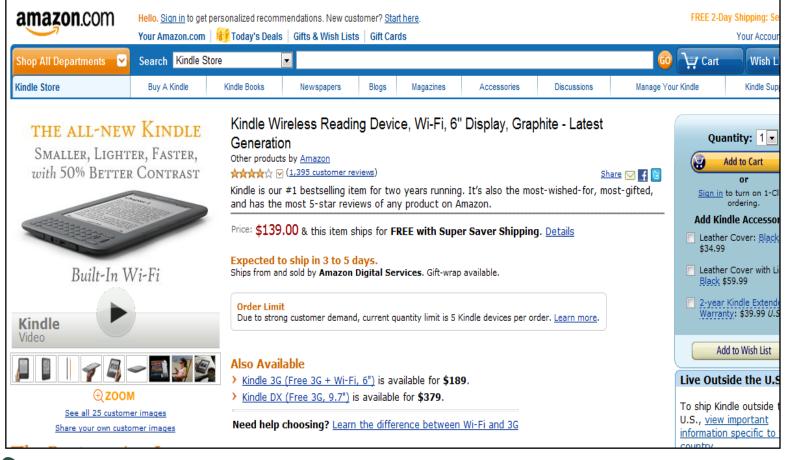


#### eBay





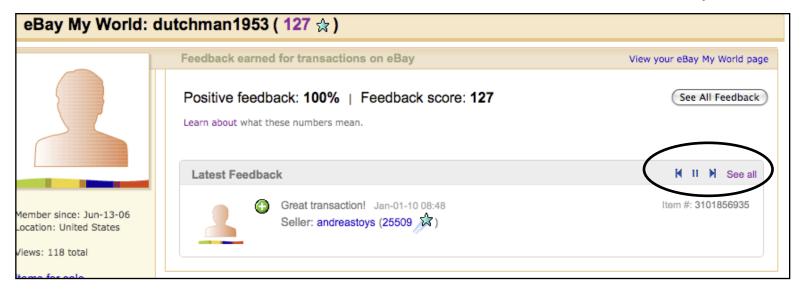
# Heur 8:Aesthetic & Minimalistic Design





# Heur 8:Aesthetic & Minimalistic Design

eBay



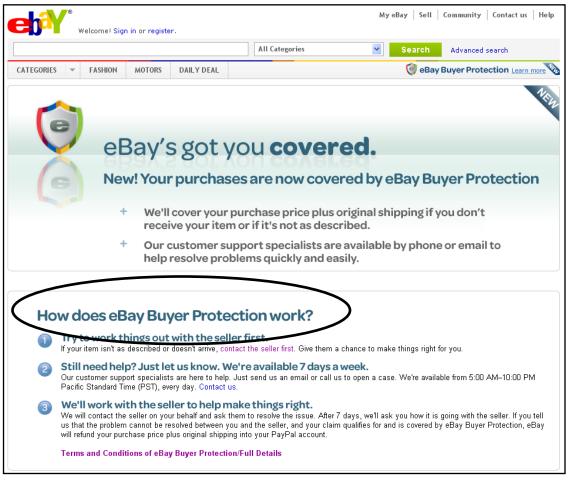


# Heur 9:Help Users Recognize, Diagnose & Recover from Errors

# YouTube Hometown: Vancouver Country: Canada Thank you, This user has been reported.

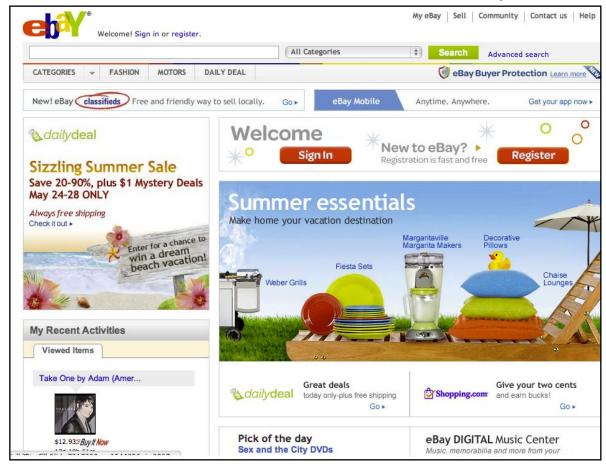


#### еВау



## Heur 10: Help & Documentation



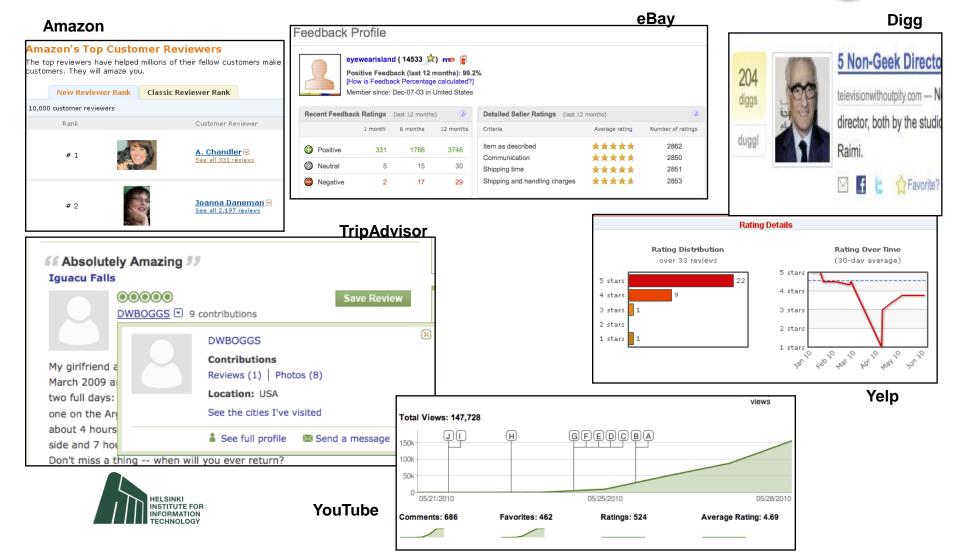




## Results for Expert Evaluations



# Visual Elements Representing Reputation Information



# Visual Elements Representing Reputation Information

#### **Apple**

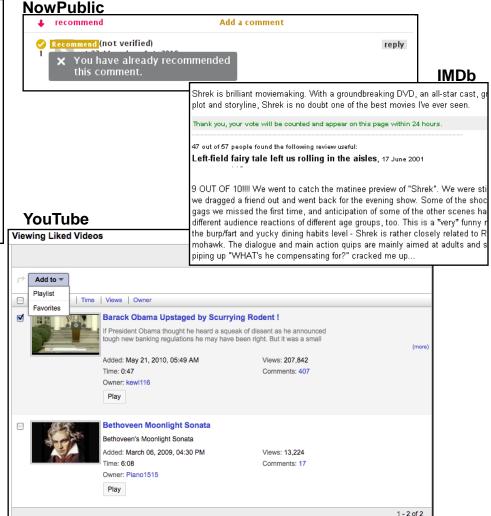
This was originally on the home video game consoles as a first person platformer... and now, it's a 3rd person platformer on your iphone. I actually prefer this game to the original, and the swipe controls are masterful. It plays like it was meant to be on a touchscreen all along. Looks beautiful on an iphone 4, but it also plays very smoothly on the iphone 3g. If you don't have it already, it came out earlier for the ipad as well. The controls are nearly perfect and the level designs make for very intriguing fast-paced gameplay. The story is easy to follow too, if you enjoy being a rogue individualist against a tyrannical state, then this is your game. Definitely a game for the pro-freedom, pro-individual rights advocate at heart. I've been waiting for this game for 6 months, so I stayed up this evening to download it. It did not disappoint. Beat 5 levels already, and the sense of speed and altitude in the gameplay is

Con: not much to complain about at all! But some of the levels get hinky at times. Faith (the main character) doesn't always grapple onto an object or wall when she should, and it makes you second guess your timing... but other than that, it is very good!

Good but needs final polish ★★★

Nice of them to finally release the iPhone version of this iPad game -- what was up with the delay on this, surely there's no paid exclusivity on these platforms? This is an excellent platformer with interesting and very capable swipe-based controls. There are three dumb problems, though:





## Discussion



## **Problems**

- Cluttered User Interface might mislead or confuse the user.
- Missing nudge to look at relevant information.
- Lack of inter-relation between different reputation elements might:
  - have negative effect on credibility of information;
  - effect user's willingness to contribute.



## Suggestions

- Clearly distinguish between distinct sources of information - guide users' task flow.
- Tie together different instances of reputation information.
- Promote transparency.
- Create visually prominent & real-time links between the users across services.



### So how does it translate to UI design?



Honestly - putting it all together is tricky. But there's some pretty good design around already that follows **some** of these guidelines.



#### **Google Shopping**



# Usage of color scheme to differentiate between the ratings



#### **NowPublic**



#### Real time links between the users



## Thank You!

