Adapting UCD for Open Source Software Development

翁千婷(Whiteg WENG)

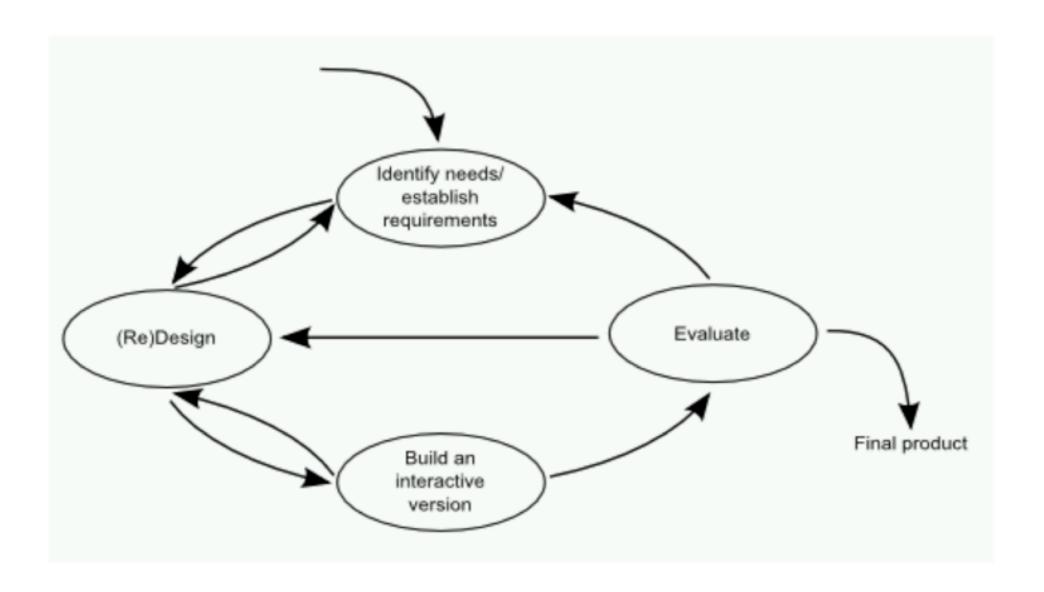
Outline

- Introduction to UCD
- Challenges of applying UCD on FLOSS
- Case study: Moodle
- Ongoing project: gfx.tw

UCD: User-Centered Design

UCD: An iterative design process

A simple model



Interaction Design: Beyond Human-Computer Interaction, http://www.id-book.com/

Why UCD?

Create Successful User Experience

To UX designers, success means creating **products** that are **useful**, **usable**, and **desirable**.

Charles B. Kreitzberg and Ambrose Little, http://msdn.microsoft.com/en-us/magazine/dd263095.aspx

Product (產品)

Creating something for people you don't know

Useful (有用)

Satisfactory in functionality



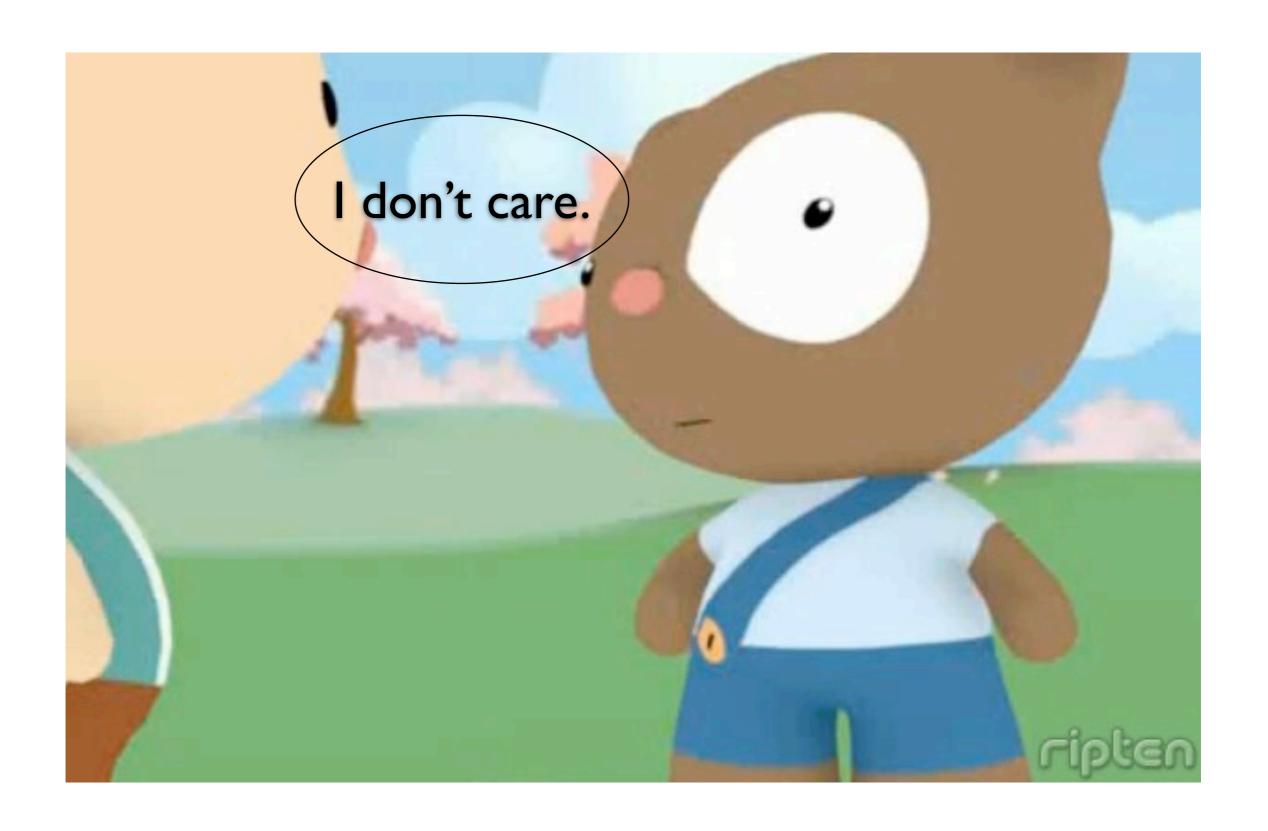
Usable (可用)

Whether the user can use the provided functions



Desirable (想用)

The user wants to own the product



Usability: Extent to which a product can be used by specified users to achieve specified goals with **effectiveness**, **efficiency** and **satisfaction** in a specified context of use.

Effectiveness: 可以做得多好?

Efficiency: 可以做得多快?

Satisfaction: 操作過程中有多爽/不爽?

Learnability(可學習性):在初次接觸系統就能完成基本操作的容易程度。

Usability 101: Introduction to Usability, http://www.useit.com/alertbox/20030825.html

Memorability(可記憶性):經過一段時間沒用系統後,重新使用還能上手的容易程度。

Usability 101: Introduction to Usability, http://www.useit.com/alertbox/20030825.html

Efficiency(效率):學會使用系統後, 能多快完成任務?

Usability 101: Introduction to Usability, http://www.useit.com/alertbox/20030825.html

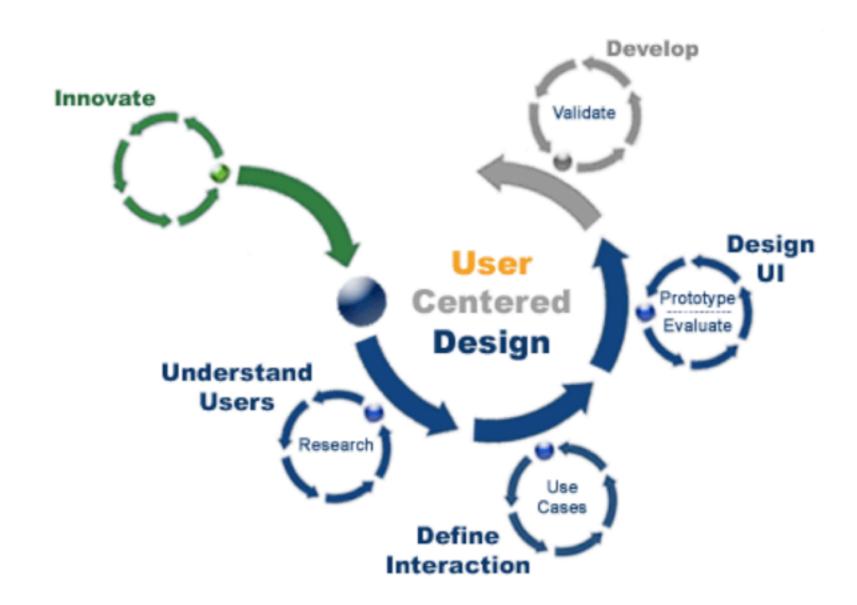
Errors (錯誤):使用者犯錯的數量、錯誤的嚴重度、修正錯誤的容易程度。

Usability 101: Introduction to Usability, http://www.useit.com/alertbox/20030825.html

Satisfaction(滿意度):使用系統時的 愉悦度。

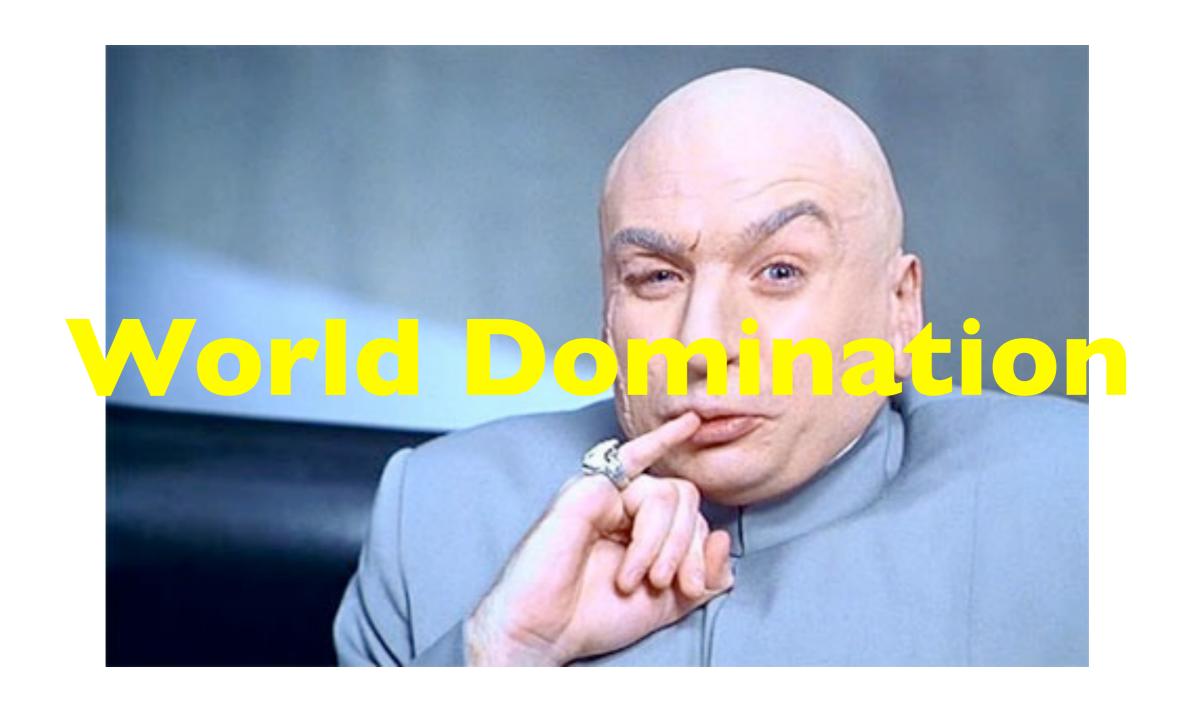
Usability 101: Introduction to Usability, http://www.useit.com/alertbox/20030825.html

Software development model with UCD



The SAP user-centered design procedd, http://www.sapdesignguild.org/editions/edition10/ucd_overview.asp

Why UCD in FLOSS?



When FLOSS meets UCD

Scratch your own itches

Developer is user

Replace proprietary software

(End) users are missing

Floss projects with UX











etc...

Outcomes

Ul Design Guidelines

Usability evaluation report

User research report

Improved interaction design

Improved user interface design

And more...

Challenges

Code speaks louder than *

Entry barrier of tools to UX designers

Distributed development model

Limited resource

Most FLOSS projects are poor

UX designers can be free but accessing users is not

Solutions?

No best practice yet

Case study: Moodle usability

Moodle: The user's experience, http://www.pilpi.net/software/moodle/

Began as a school project work: Quiz Ul redesign

Moodle: The user's experience by Olli Savolainen, http://www.pilpi.net/software/moodle/

Developed Moodle Ul Guidelines

Moodle: The user's experience by Olli Savolainen, http://www.pilpi.net/software/moodle/

Usability specialist for Moodle

Moodle: The user's experience by Olli Savolainen, http://www.pilpi.net/software/moodle/

Ongoing project: gfx.tw

gfx.tw: a website for promoting Firefox.

Current status: an established website.

Problem: How to decide the priority of developing new features?

What we have done?

Talk to developers

Gathered statistics of website activity

Gathered feature requests

What next?

User research on gfx.tw contributors

References

- The Human Face Of Software, http://msdn.microsoft.com/en-us/magazine/dd263095.aspx
- 費茲定律Fitts' Law與使用者介面設計,http://blog.vgod.tw/2009/10/02/fitts-law/
- Interaction Design: Beyond Human-Computer Interaction, http://www.id-book.com/
- The SAP user-centered design process, http://www.sapdesignguild.org/editions/edition10/ucd_overview.asp
- "Usability Processes in Open Source Projects" by David M Nichols and Michael B Twidale
- "A Survey of Usability Practices in Free/Libre/Open Source Software" by Celeste Lyn Paul
- "Ten Lessons Learned from Netscape's Flirtation with Open Source UI Development" by Trudelle, P.
- Usability 101: Introduction to Usability, http://www.useit.com/alertbox/20030825.html
- Moodle: The user's experience, http://www.pilpi.net/software/moodle/