- 1. Introduction to IxD
- 2. Conceptualizing Design
- 3. Persuasion, Emotion & Trust
- 4. GUI's and NUI's



## GUI's and NUI's

#### Graphical User Interface

How we have interacted with technology for a long time now. Keyboard and mouse, screens and displays.

#### Natural User Interface

Interfaces that support our natural capacities and actions as human beings.



#### GUI's Windows Interface



Changing the GUI in personal computers "10/GUI" <a href="https://vimeo.com/6712657">https://vimeo.com/6712657</a>



## Jarvis – Tony Stark's NUI





# Jarvis – Tony Stark's NUI



NUI's make use of our human modes of interaction

Voice
Physical movement (not just our hands)
Hearing
Sight

Can we further incorporate natural movements and gestures in technology design?



## Gest/Wii motion







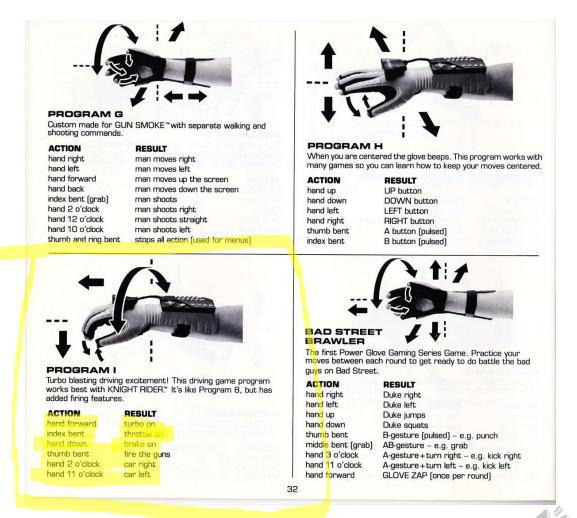
#### The Nintendo Power Glove

Poor sensor technology

Minute movements not registered

Remembering movements that were not natural to the user, inorganic movements

Tried to simulate an "interactive natural experience" and failed dismally. However, aided in introducing NUI's in a games context



#### Forced NUI's

Ergonomical issues for touch screens

Viewing angles

Touch targets in conventional GUI interface – not adapted to touch

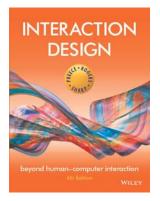
Mode switching

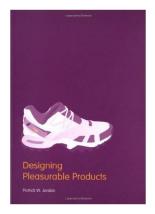


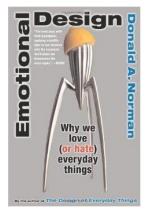


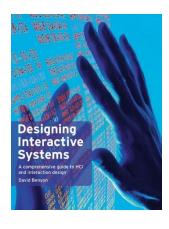
## Further reading

- Preece, J., Rogers, Y., & Sharp, H. (2015). Interaction design: Beyond human-computer interaction (Fourth ed.). Hoboken: John Wiley & Sons.
- Norman, D. A. (2004;2007;2005;). Emotional design: Why we love (or hate) everyday things (1st ed.). New York: Basic Books.
- Jordan, P. W. (2000;2003;2002;). Designing pleasurable products: An introduction to the new human factors (1st ed.). London: Taylor & Francis.
- Benyon, D. (2010). Designing interactive systems: A comprehensive guide to HCI (2nd ed.). N.Y;Harlow, England;: Addison Wesley.











## Further studies

I'm interesting in learning more, where can I go from here at QUT in IxD and HCI?

CAB210 – People Context & Technology – Sem 2

CAB310 – Interaction & Experience Design – Sem 1

You've already taken the first steps in Interaction Design during your time in 103. I hope you enjoy them!

Next week we will look at Data collection & Defining ICT problems



# Drawing it **all** together

Interaction Design is a key domain that links with what we do as IT designers.

Please use this content as ammunition with which to arm yourself as a better IT designer.

