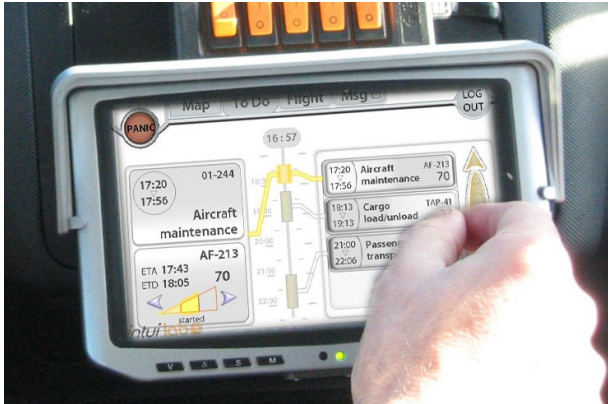


Service front-ends: software developed by designers

Stéphane Chatty
June 2014

My background



User interface designer

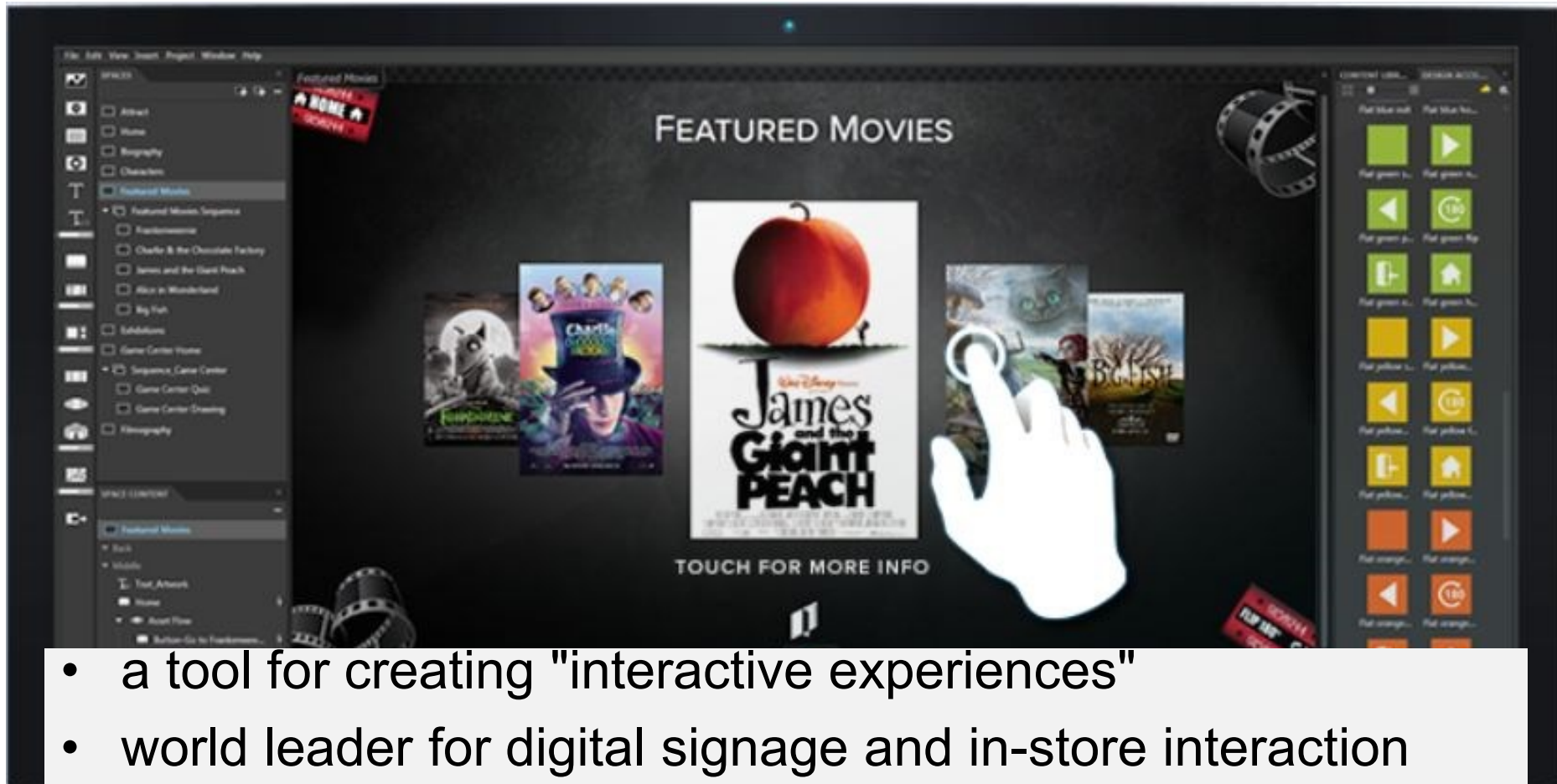
- air traffic control engineer, 1992-2000
- head of design services, IntuiLab, 2000-2006

Computer scientist, tool designer

- code for operating systems (X, Linux)
- tools for programmers (Xtv, Whizz, IntuiKit, ...)
- tools for design teams (djnn)
- tools for designers (IntuiFace)

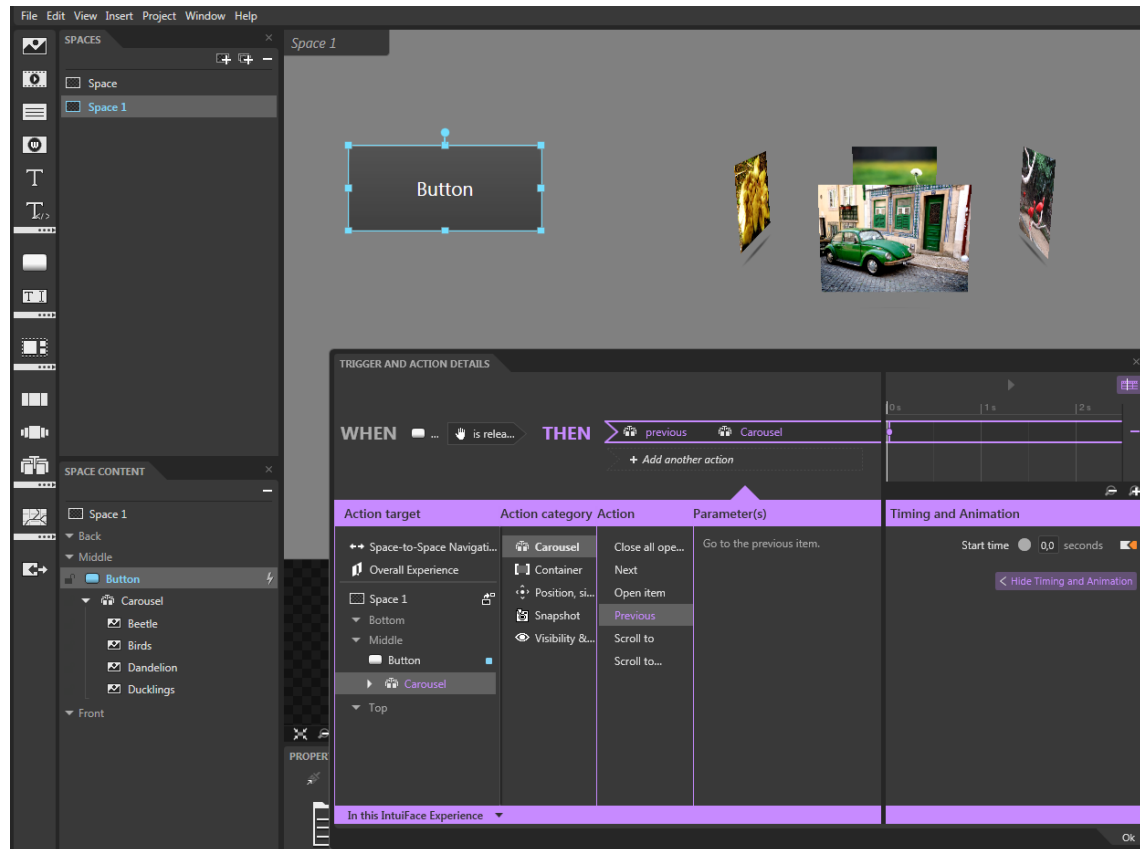
```
component myapp {
  clip c (0, 0, 100, 100)
  load (file://scene.svg)
  connector (accelerometer/x, c/x)
  connector (accelerometer/y, c/y)
  component xdrift {
    value x
    value dx
    clock c (100)
    incr i (x, dx)
    binding (c, i)
  }
  connector (xdrift/x, clip/x)
  connector (accelerometer/x, xdrift/dx)}
```

a UI tool for designers: IntuiFace



- a tool for creating "interactive experiences"
- world leader for digital signage and in-store interaction
- used by 3M, Perceptive Pixel, Microsoft's design agency, etc
- also used for MOOCs, cockpit prototypes, etc.

IntuiFace

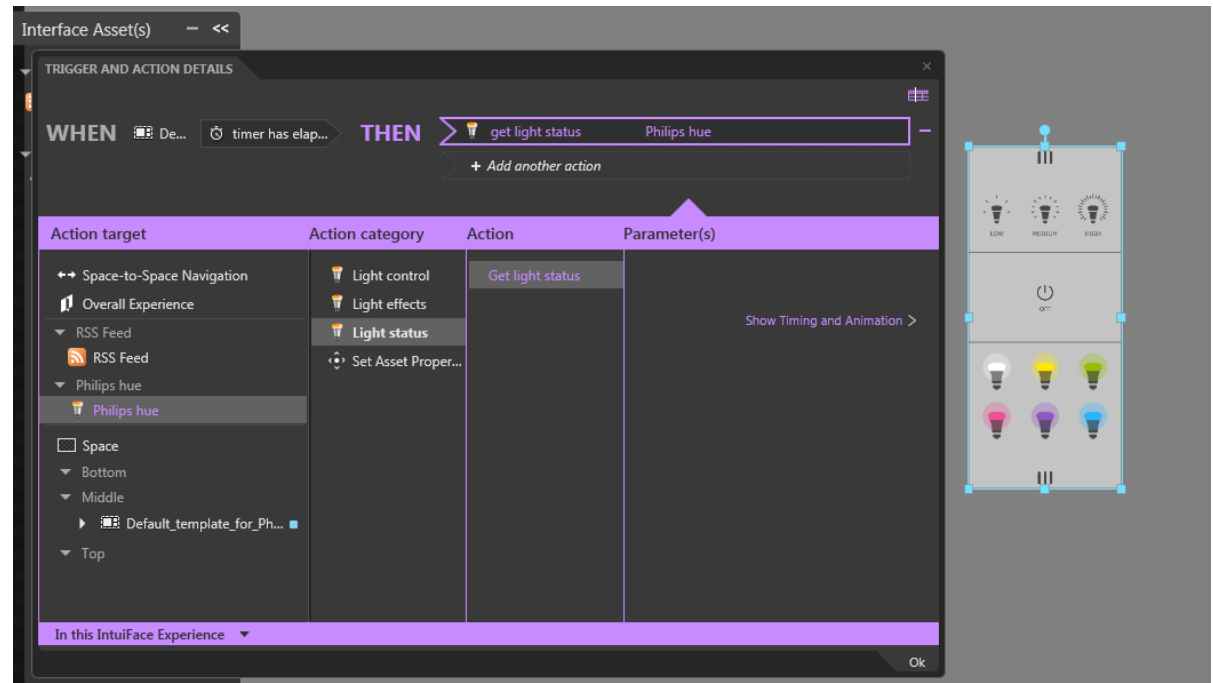
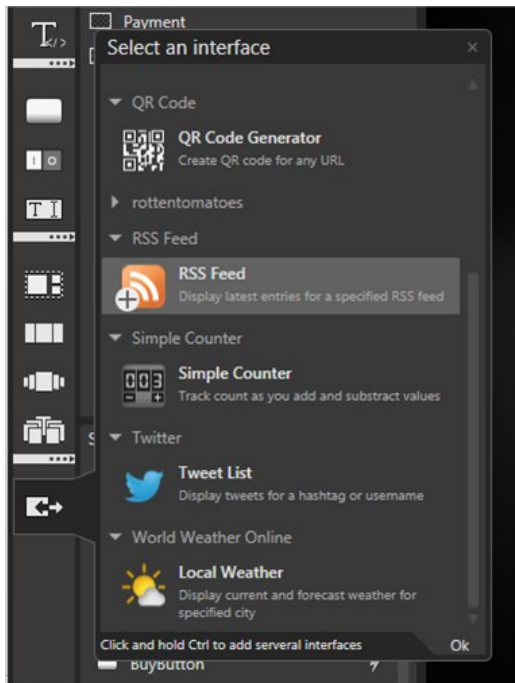


- aimed at users of PowerPoint and Adobe products
- instantiate and connect assets to create interactions
- interaction as a media: created, deployed, consumed

UI development: a changing market

- 2000-2008: IntuiLab designs and develops UIs
- 2008-2012: IntuiLab sells tools to IT firms
- 2012- now: IntuiLab sells tools to design agencies
with extension/connection mechanisms for IT firms

Interface assets



- developed by "real programmers"
- connected to Web services
- manipulated by designers as assets like the others

Result



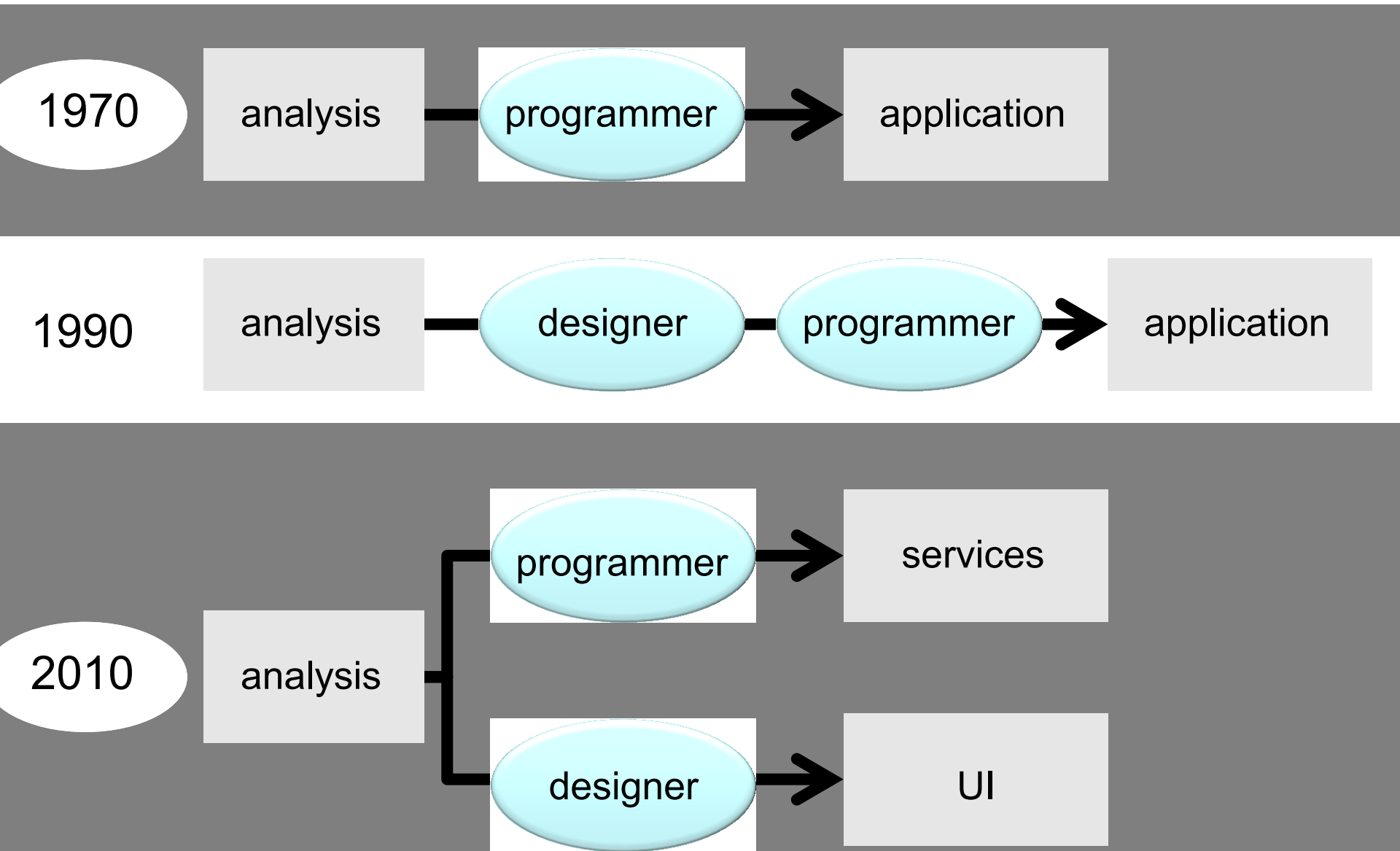
Philips Hue, web service, interface asset, IntuiFace experience

Example application



- shopping kiosk
- layout and interaction built by designers
- data-base accessed through web services
- interface asset developed in C#
- run by Intuiface Player

UI production is now the job of designers



Research directions

- UI-compatible standards for exporting services
(similar to Google Descriptors?)
- Platforms for orchestrating the UIs of IoT services
- EUD/EUP for interactive systems
 - Sound and general concepts
 - Visual representations, interaction styles for programmers
 - Programming assistance (not typing, not colored keywords)