

Esri International Developer Summit

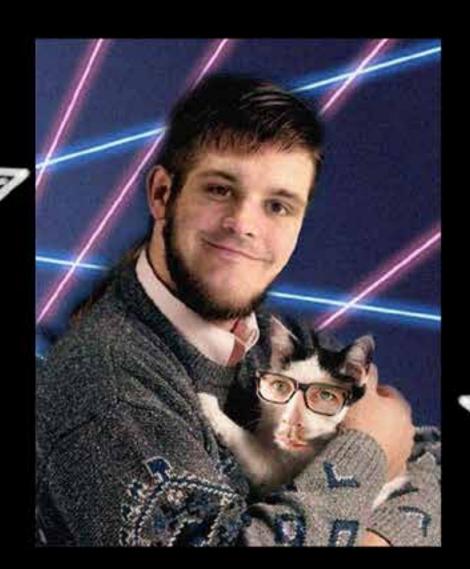
The Design Process

Staying Ahead of Developers with Caffeine Addictions

Introduction

- Brent Pierce, Product Engineer
- Steven Nelson, UX Architect

Brent



Steven

Currently working on: ArcGIS Explorer



Disclaimer: This talk will be mobile-focused

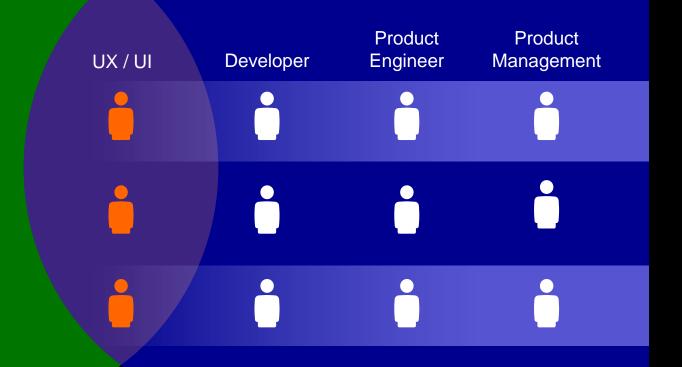


Creative Lab

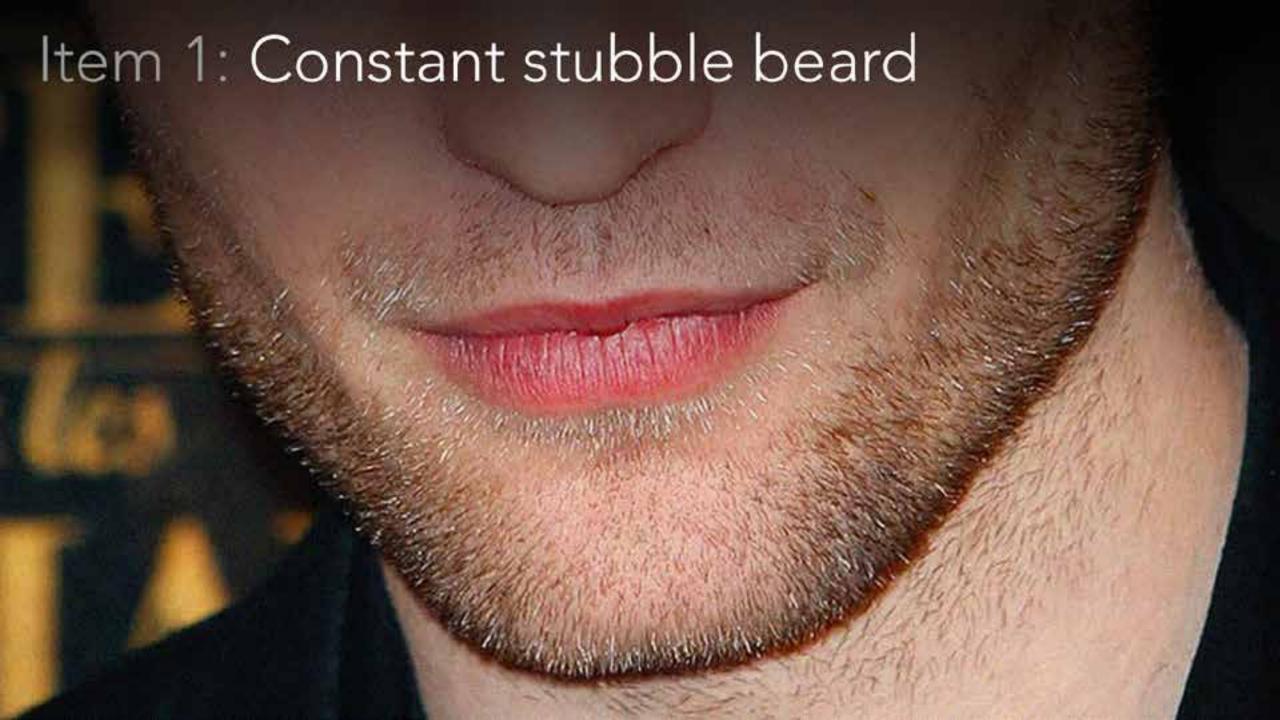
UX / UI

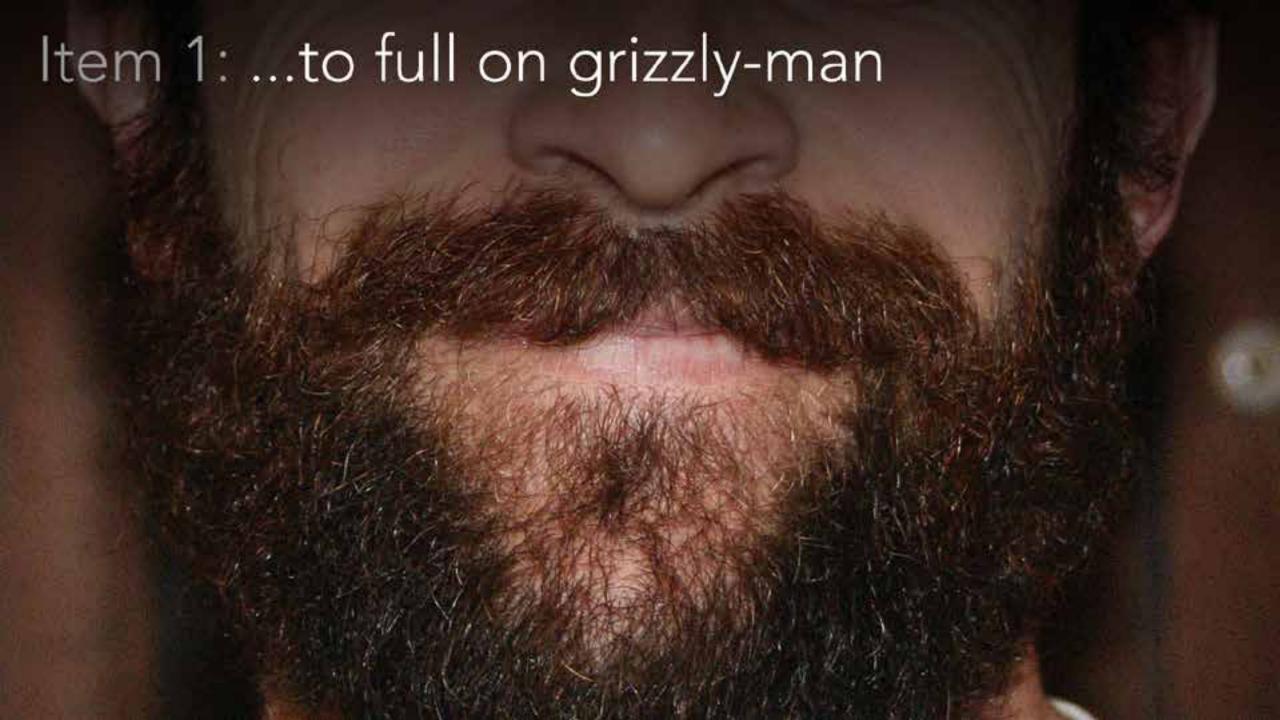
Dev Center

Dev Center



The Problem - Intro to the Developer in his Natural Habitat





Item 2: wears t-shirts with obscure sayings that mix trends with snobby code references

There's no place like 127.0.0.1

Item 3: Brings own keyboard to work







General Problem Encountered when working with these creatures

- These characteristics contribute to great developers who: MOVE FAST
- Designs usually take a lot longer than it takes to code
- Designs need a little more review than code typically does
- You don't <u>really</u> now if a design works until it's been implemented

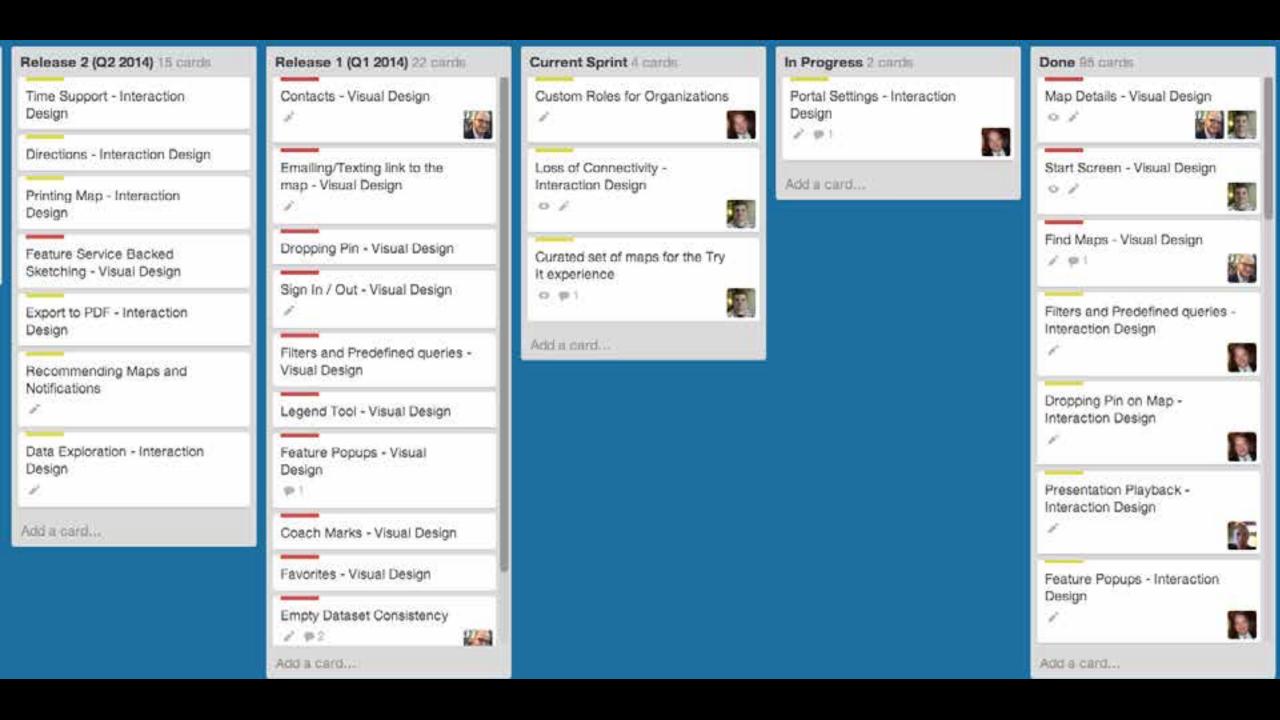


Practical Solution #1: Front-Load Your Designs

- Do your designing at least a sprint ahead of the implementation
- Anticipate design needs in your backlog

Extreme Cases:

 Design holiday: heads-down design week while devs are working on something that does not require design (refactoring, testing sdk's)



Practical Solution #2: Separate interaction and visual aspects of a design

- Create low fidelity interaction designs that can go straight to dev
- Follow with a higher fidelity visual design

Practical Solution #3: Couple a designer to a design

- Designer owns the design until it gets implemented
- Always available for questions
- Has final say on if the implementation meets the "spirit" of the design
- Designs will need to be reworked during implementation, the designer takes the lead on reworking the design and updating the appropriate design artifacts
- Also key to cross-platform support
- You don't know if a design works until it is implemented.

Practical Solution #4: Reviews

- Design studio
- Interaction designs reviewed by visual designers and visual designs reviewed by interaction designers
- (keep everyone on the same page)

Practical Solutions #5: Good Communication Tools



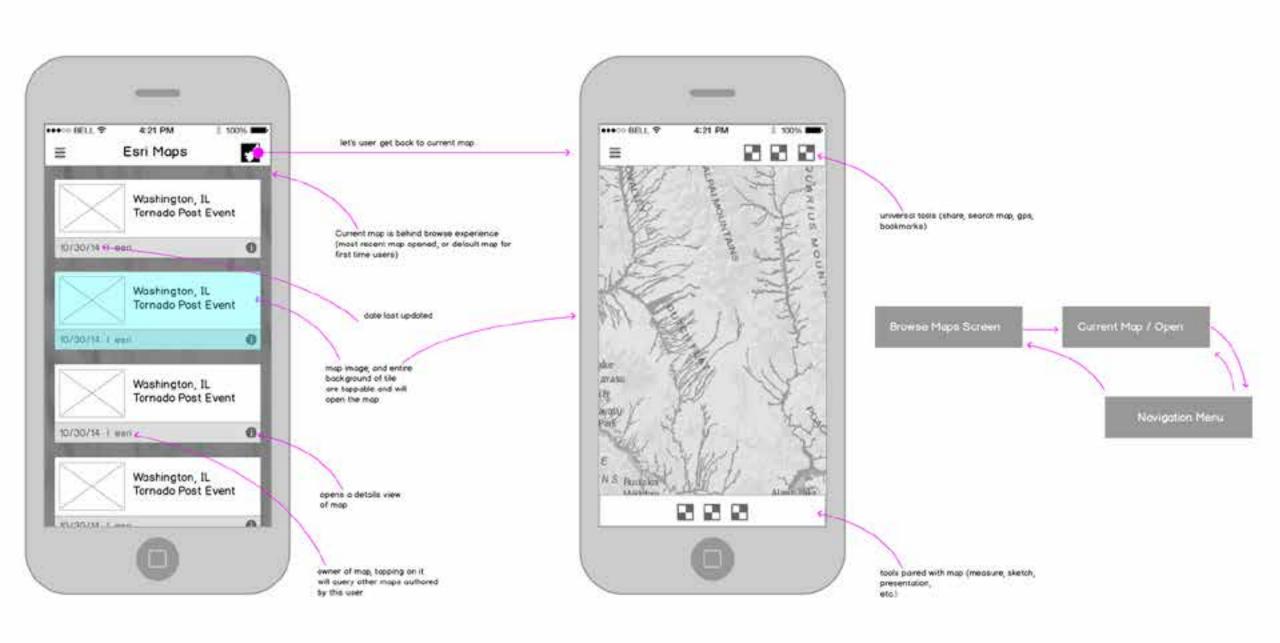
- Notifications
- Prioritization
- Record of conversation
- Everyone is pulling and building the code.





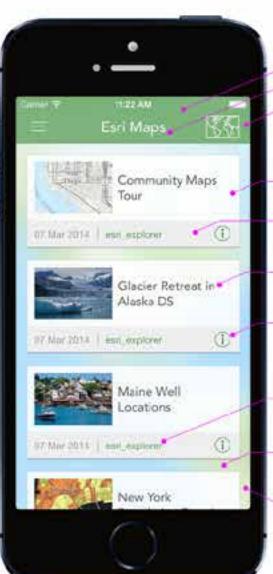
Keys to a good interaction design

- Sweat the details
- Tell a story with the design
- Don't fall into the high fidelity trap (it don't have to be pretty)
- Concentrate on interactions
- Key details that often get overlooked
 - State: when should it be saved/maintained
 - What if the app is killed by the platform?
 - Connectivity
 - What is persisted and where are app settings stored?
 - With the app or the platform



Keys to a good visual design

- Design with a visual system in mind
- Be consistent
- Make sure visual aspects of the brand are communicated
- Be attentive and vocal in the interaction design review process
- Make sure your design doesn't disrupt the vision of the interaction design
- Know how to communicate your designs to developers
- Don't be distracting, be delightful



R=104 G=170 B=103, OPACITY: 95% AVENIR MEDIUM 20PT BROWSE EXPERIENCE BACKGROUND 90% OPACITY, WHITE, BORDER:R=204 G=204 B=204 BG: R=239 G=239 B=240 AVENIR ROMAN 17PT ICON TINT COLOR: R=91 G=148 H=90 LINK COLOR R=91 G=148 B=90 15PT VERTICAL SPACE

15PT MARGIN

Carrier P 11:15 AM UNITED BYALLS. P. CONTINUE ABATTOR

18PT MARGIN

USE TOOL BAR SIZE

MAP AREA, BLUR WHEN BROWSING

TOOL BAR BG COLOR: R-248 G-248 B-248

		ON DESIGN
4	HTERACTT	STANG PROPERTY.
		Design Studio
D		Interaction Design Created
D		Interaction Design Review
•	0	Implementation Starts, Visual Design Created
	0	Iteration on Interaction Design, Implementation Continues, Visual Design Approved
Φ Φ	0 (Visual design implemented, Interaction design implementation approved, Iteration on Visual Design
		Visual design implementation approved

Conclusion

- Separation of Interaction and Visual elements is key
- Good communication is critical to make this work
- Every needs to buy into a design no throwing over the wall



Understanding our world.