



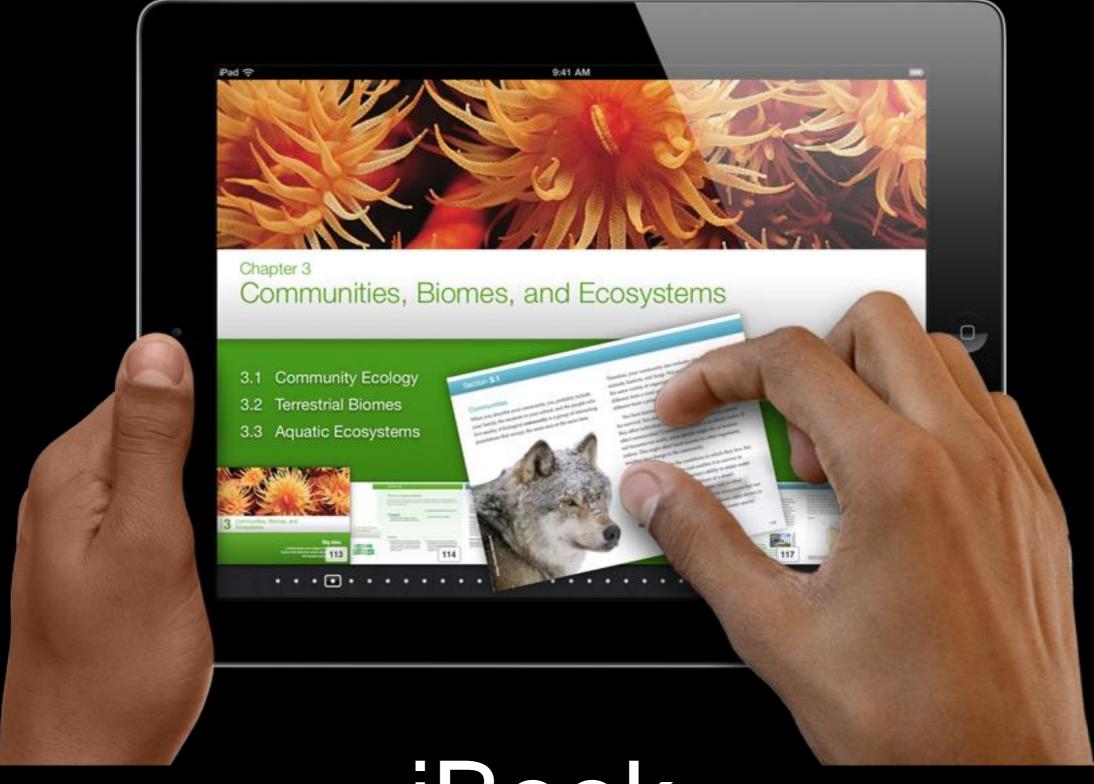
EHR Usability Style Guide

An interactive eBook

Jeff Belden MD

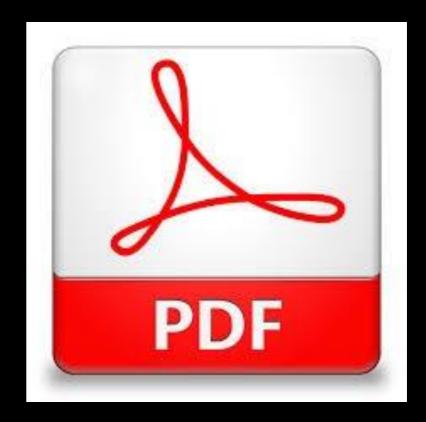
EHR Usability Style Guide

Early edition



iBook





iBook & PDF

Suggest

Illustrate

Inspire



EHR Vendors



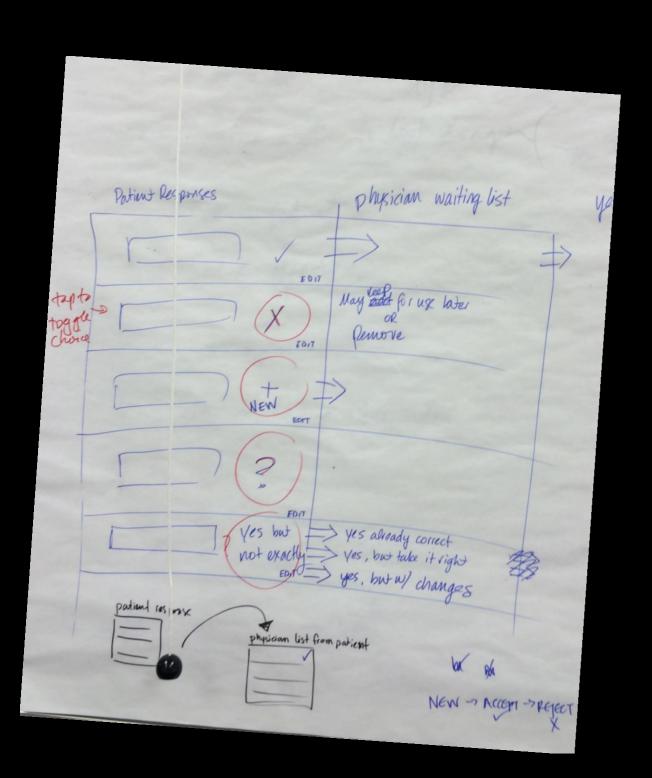
any HIT developer

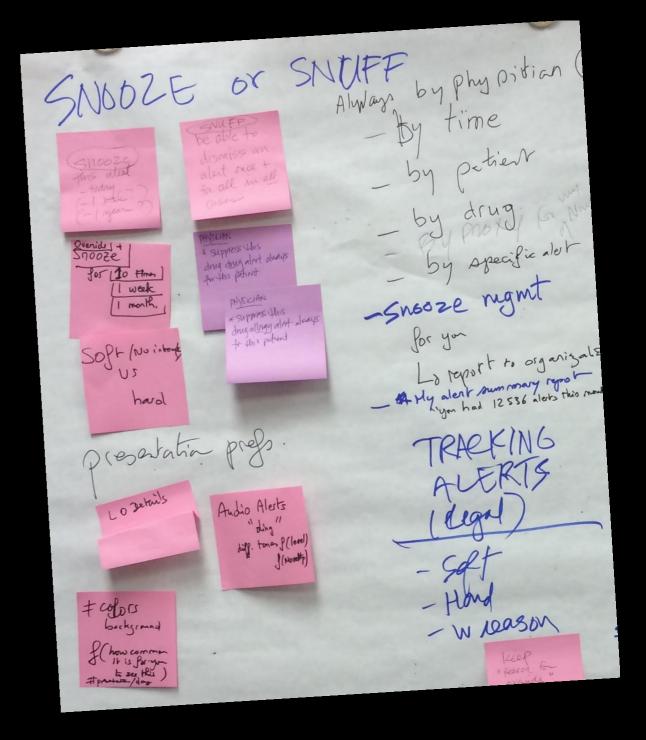


Usability Pros

Our Process

On-site design workshops





Vendor participation in workshops







Our Team

- 2 physician UX geeks
- 3 HCI Experts
- 3 Designers (Involution Studios)
- 3+ Vendors (at workshops)

Medication List

released Oct 2013

Preview

Writing Style

Science Journalism

for example...

You can reduce the risk of error (missing one in the list) and lighten the mental effort (cognitive load) quite a bit by smart design features.

In order of complexity, here are some solutions:

Allow sorting the medication list by associated diagnosis. This groups them together and makes for far less reading, searching, and and relying on humans' limited working memory (which can only hold 3 to 4 items).

You can reduce the risk of error (missing one in the list) and lighten the mental effort (cognitive load) quite a bit by smart design features.

In order of complexity, here are some solutions:

Allow sorting the medication list by associated diagnosis. This groups them together and makes for far less reading, searching, and and relying on humans' limited working memory (which can only hold 3 to 4 items).

Clinical scenarios

Returning to the clinical scenario: What happened before today?

The physician had determined that the blood pressure was too high, and an additional drug would be necessary. He wondered why lisinopril had not been chosen. So, turning to the timeline view, he toggles for "Active Medications" to "Active + Inactive Medications" view. He sees that lisinopril had been prescribed, but only for a few months. He wonders, "Why was it stopped?"

Returning to the clinical scenario: What happened before today?

The physician had determined that the blood pressure was too high, and an additional drug would be necessary. He wondered why lisinopril had not been chosen. So, turning to the timeline view, he toggles for "Active Medications" to "Active + Inactive Medications" view. He sees that lisinopril had been prescribed, but only for a few months. He wonders, "Why was it stopped?"

Demo of iBook

Live Widget Demo

Coming Attractions



Feedback

I reviewed the medication list chapter in:					
iBook	PDF	Both			
The Medication	n List chapter repres	ents the princip	oles that I would	communicate t	o EHR designers.
NA	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Feedback					
This guide, if ir	mplemented by EHR	designers, cou	uld help improve	the work of EH	łR users.
NA	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree

Survey tool



Target Audience Review

Praise for the first draft

It looks really good. Janet Campbell | Epic

...it's terrific.

...strikes a good balance both immediate practical and more advanced.

...the visual examples clearly communicate key points and reinforces the narrative.

Glen Moy | California HealthCare Foundation

I really like the interactive list demo you're working on!
Integrating a mini-timeline within the list of meds is brilliant!

Jon Duke MD | Regenstrief Institute

Thanks for the opportunity to participate in this – it is really great.

John Beasley MD | **U of Wisconsin**

This would be great for any of our associates, whether C-suite, mid-level managers, or engineers!

Megan Jacoby Cerner

... and Constructive criticism

Thanks

Funding sponsors
California HealthCare Foundation
SHARP-C project of ONC

In-kind sponsorship
EHRA Clinician Experience Workgroup
EHRA Board
Participating vendors at design workshops

Thanks

Workshop 1 vendors NextGen athenahealth

Workshop 2 vendors
Cerner
MedSocket
PDS Cortex

Questions

University of Missouri-Columbia Jeff Belden (Leader)

Richelle Koopman

Joi Moore

Nathan Lowrance

Involution Studios Juhan Sonin

Jen Patel

Shreeya Gangwal

University of Maryland

Catherine Plaisant

University of Texas-Houston Todd Johnson

More at