Templates & guidelines





Diagrams and Illustrations for Designing Mobile Interfaces

Prepared by **Steven Hoober** for the O'Reilly book *Designing Mobile Interfaces* by Steven Hoober & Eric Berkman

9 December 2011

Preface

Introduction

This file contains editable copies of all the illustrations (and a few of the screenshots and photos) included in the book *Designing Mobile Interfaces*.

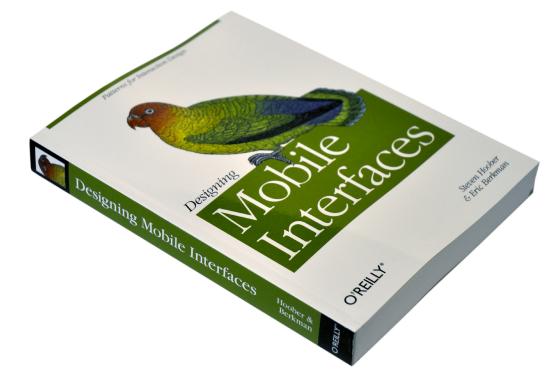
If you didn't notice the Creative Commons thing in the bottom of each page, look now. The whole point of the book is to share knowledge, so to that end you are free to re-use any of these diagrams when designing or specifying anything yourself.

These are derived from one type of drawing in the *Mobile Design Elements* document I have shared since 2007. You can find it, and every other design template, stencil or guideline at:

http://4ourth.com/wiki/Drawing%20Tools%20%26%20Templates

Designing Mobile Interfaces: Patterns for Interaction Design can be purchased from <u>Amazon</u> or direct from <u>O'Reilly</u> in both print and various eBook formats.

The entire contents (regularly updated as well) are also shared on a wiki at 4ourth Mobile: http://4ourth.com/wiki/





Preface

Examples & Illustrations

We deliberately chose not to include a lot of screenshots. In fact, we include hardly any. We did not arrive at this decision lightly; we gathered and extensively annotated screen- shots for the first several patterns.

To solve the problems with screenshots, we used illustrations almost exclusively throughout the book. These are all of the same basic style, but vary widely in the detail level used, sometimes in adjacent drawings in the same pattern.

In each case, only the required amount of detail is used. Sometimes that detail is just boxes and lines, and the words and images are implied. Sometimes words and so on have to be in there to communicate the point. Sometimes actual raster icons or websites, drop shadows, and other effects are used.

As a general rule, large blank areas on a page do not mean there's nothing there. It just means we're not discussing that component, so we removed placeholder information for clarity. The Annunciator Row is almost always assumed, so space is provided, but is not displayed—again, for clarity and to reduce clutter.

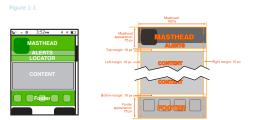
Color, especially when clearly not naturalistic, generally has a meaning:

- Yellow usually refers to the displayed, interactive elements.
- **Blue** is for images, and graphical displays such as information visualizations. A different color is used so that it is clear that it's not just a box.
- **Grays** represent nonselectable items, like the parent when a child has popped up over it.
- **Orange** is used when the item is in focus, as when scrolling in a list, or to indicate the primary button that is going to be selected for a process. This includes hardware buttons, and the arrows or other indicators of gesture and directional control.
- **Fuchsia** squares are visible in this document, but not the book. They are just spacers to keep grouped frames a consistent visual distance apart. Ignore or delete them.



• Preface

Page







Part I

Page

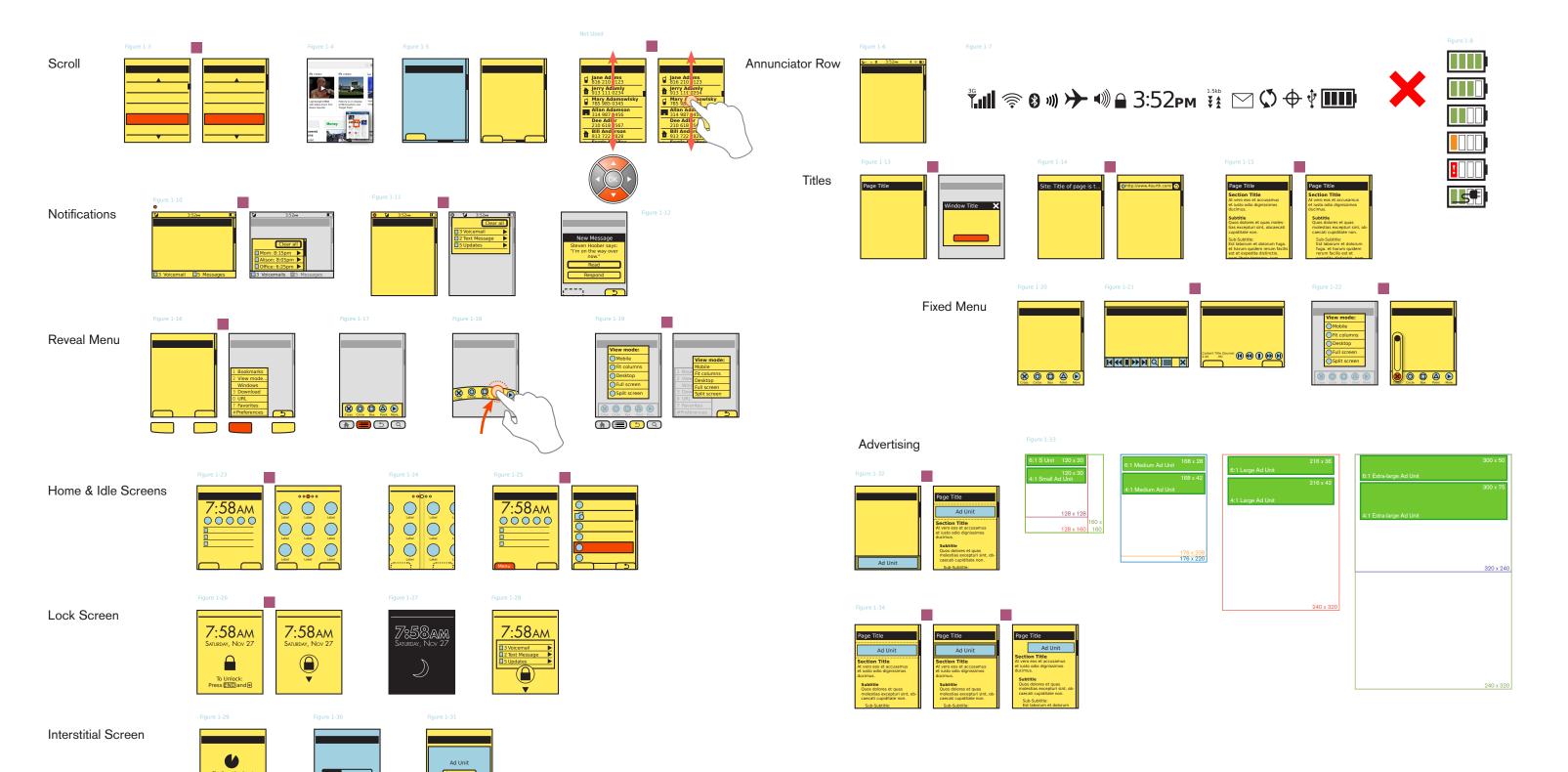
The page is the area that you will spend your time designing for any application or web- site. A part of it is visible in the viewport of the mobile screen during its current state.

There are states and modes and versions to be considered, as well as addressing what is fixed to the page, what can float, and what is locked to the viewport.

Based on cultural norms of reading conventions and how people process information, you have to design elements for the page, and place items on it in ways your users will understand. You also want to create information that is easy to access and easy to locate. Your users are not stationary, nor are they focused entirely on the screen. They're everywhere, and they want information quickly and to be able to manipulate it easily.



2 Wrapper



Part II

Components

Components, as described here, are a section or subsection of a designed interactive space.

They take up a significant portion of the screen and may be as large as the viewport (or larger) or, when smaller, may appear to be in front of other displayed information.

Components must display a range of information types—images, ordered data, expand- able lists, and notifications. They also allow the user to interact with the system in some significant, primary manner. Combining them with small, reusable, interactive, or display widgets gives the designer an almost unlimited number of options.

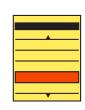


3 Display of Information

Vertical List:







Slideshow:





Infinite List:











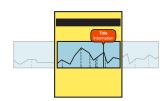




Infinite Area:







Fisheye List:









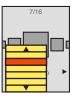






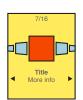


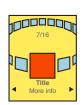
Carousel:

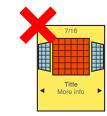


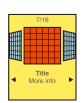












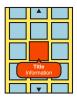
Grid:

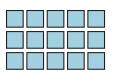




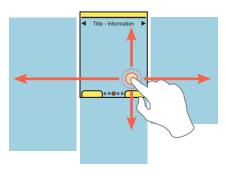


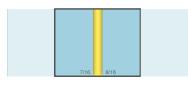






Film Strip:









4 Control & Confirmation





5 Revealing More Information

Pop-Up

Hierarchical List

Returned Results



Part III

Widgets

The word widget can mean a number of things, even within related Internet technologies. Even the savvy user may be confused by the lack of common terminology and the lack of any inherent meaning.

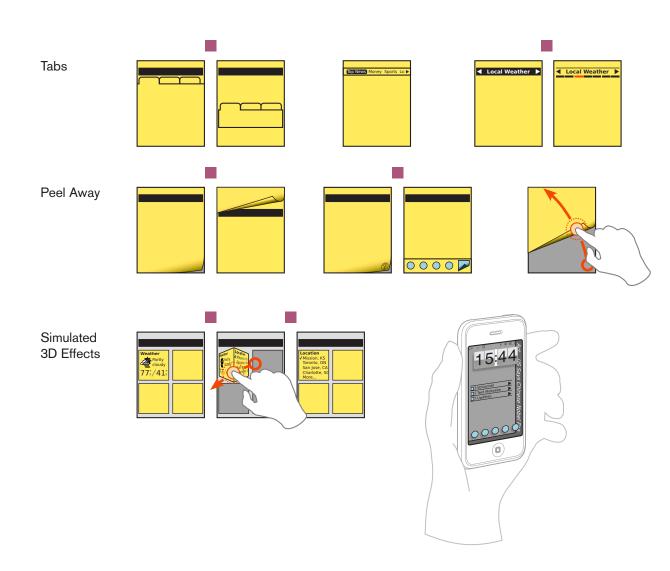
The term may apply to bits of code, applets, engines, and GUI elements.

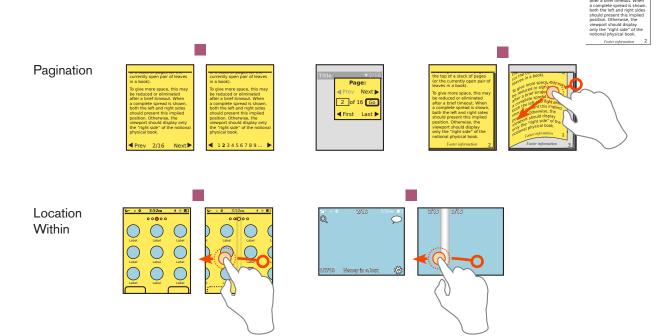
However, the scope of this book, and of this part of the book, is solely concerned with mo- bile GUI widgets. These widgets are display elements such as buttons, links, icons, indica- tors, tabs, and tooltips. Numerous additional elements (sometimes called GUI widgets), such as scroll bars, are discussed as components and functions in Part I.





6 Lateral Access







7 Drilldown

Link









Button









Indicator











Icon



















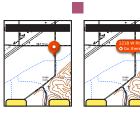
Stack of







Annotations























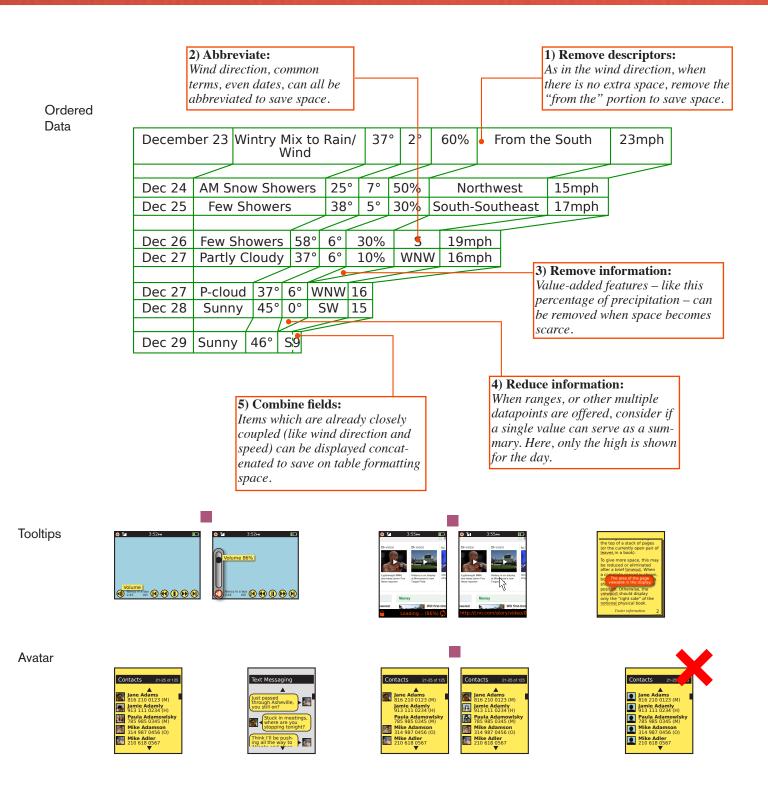








8 Labels and Indicators



Wait Indicator









Reload, Synch, Stop



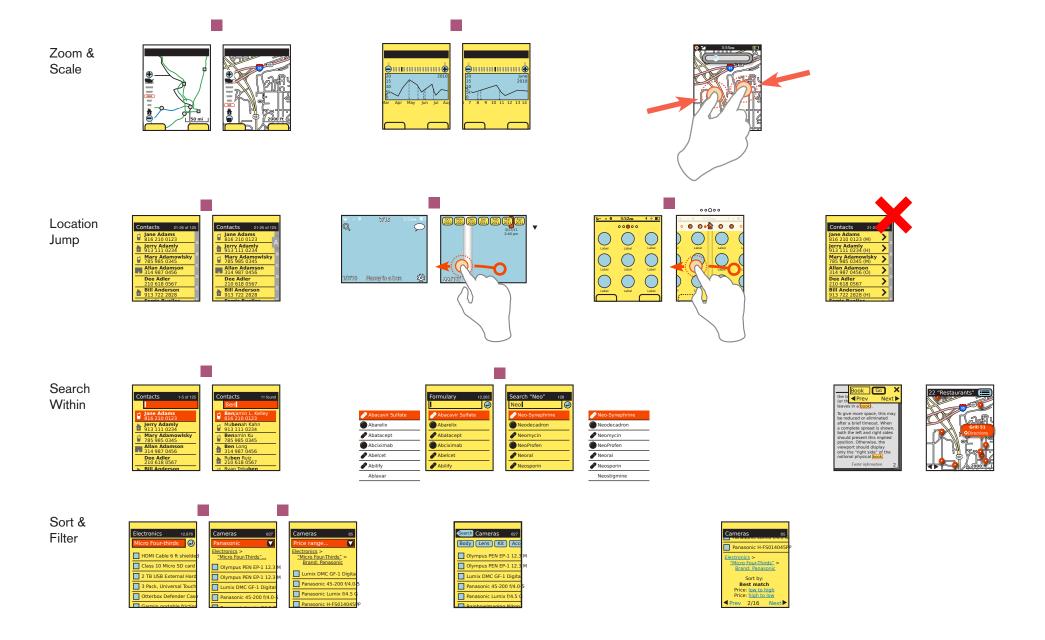








9 Information Controls





Input & Output

The varying ways in which people prefer to interact with their devices highly depend upon their natural tendencies, their comfort levels, and the context of use.

As designers and developers, we need to understand these influences and offer user interfaces that ap- peal to these needs.

User preferences may range from inputting data using physical keys, natural handwriting, or other gestural behaviors. Some users may prefer to receive information with an eyes- off-screen approach, and instead relying on haptics or audible notifications.

This part of the book will discuss in detail the different mobile methods and controls users can interact with to access apartnd receive information.

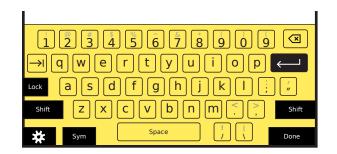




10 Text & Character Input

Keyboards & Keypads



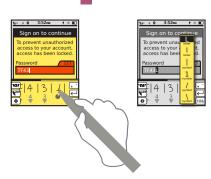


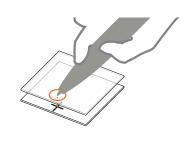




Pen Input







Input Method Indicator

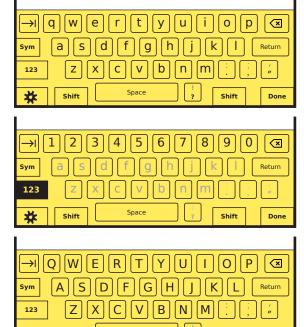








Mode Switches







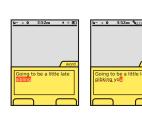




Autocomplete and prediction





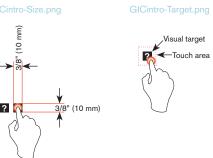




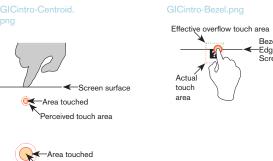


11 General Interactive Controls

General Interactive Controls - Chapter Introduction





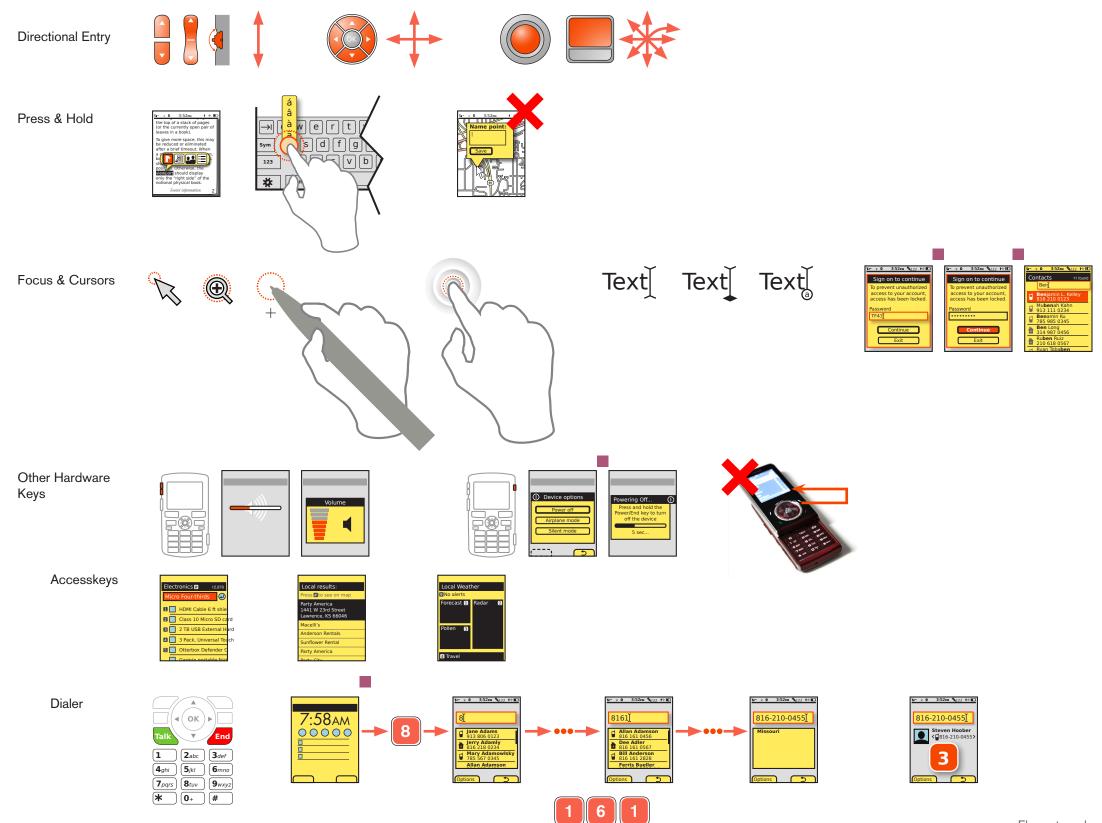




Edge of screen
Screen



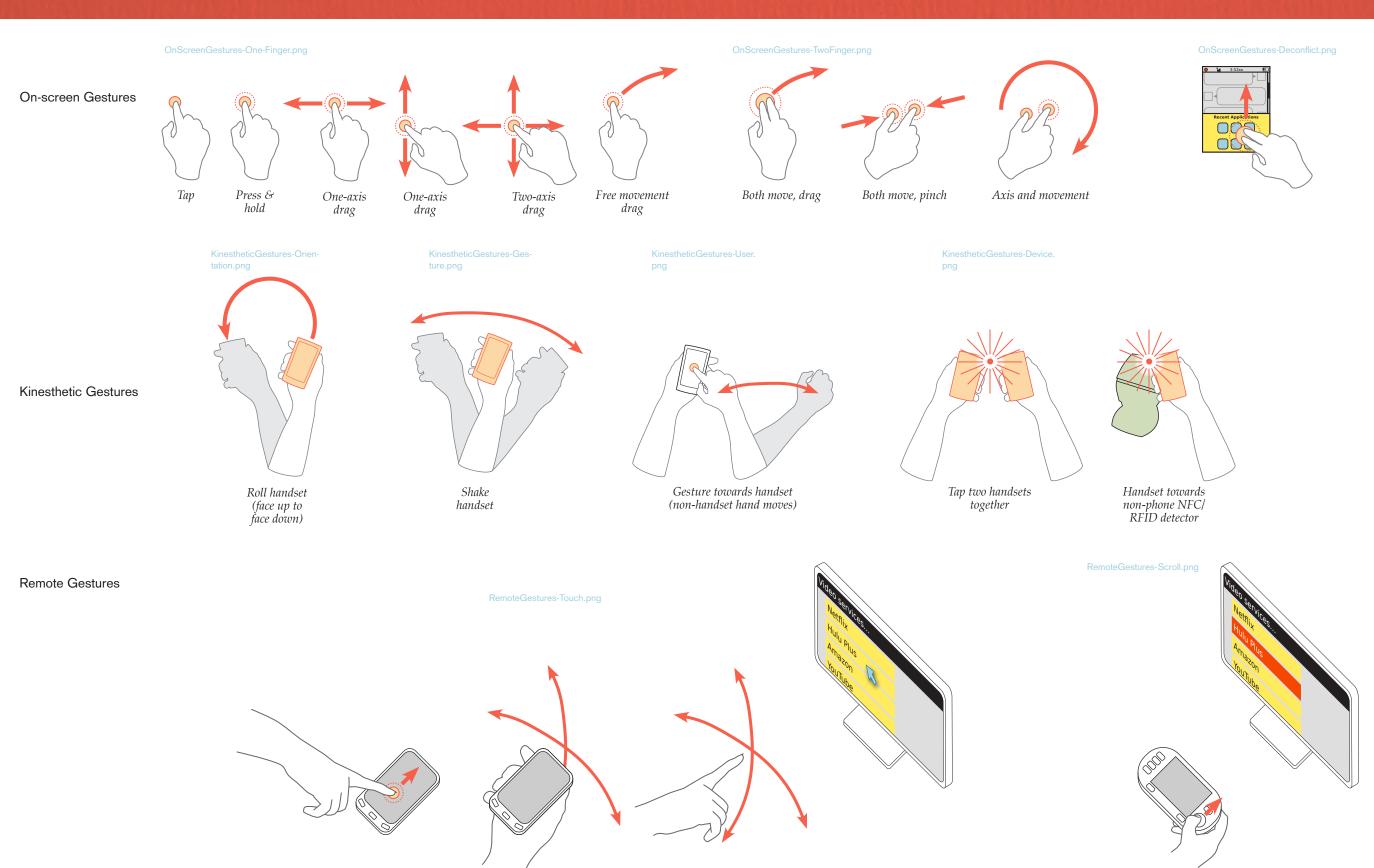
11 General Interactive Controls





. IV

11 General Interactive Controls



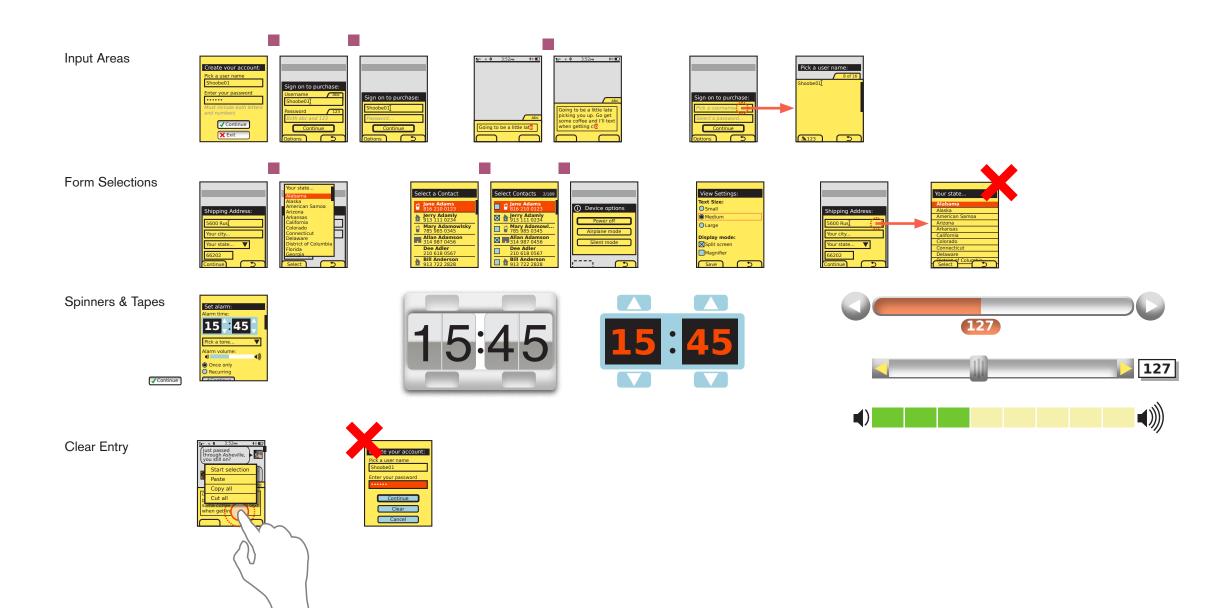
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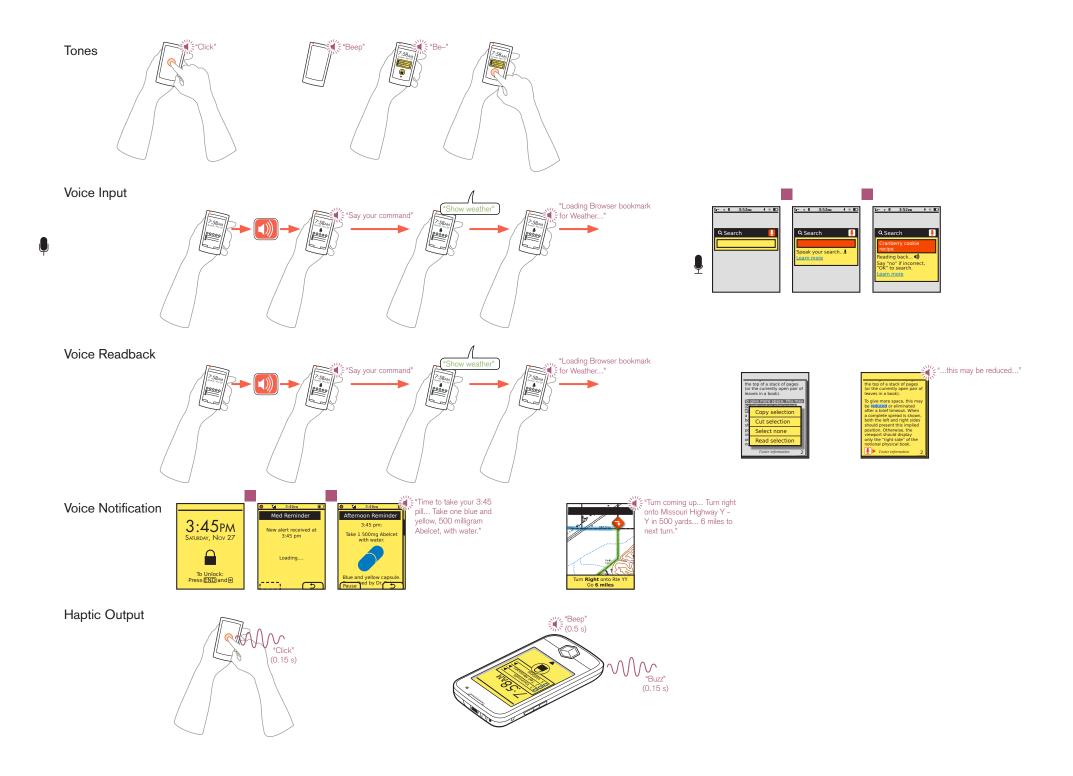
12 Input & Selection







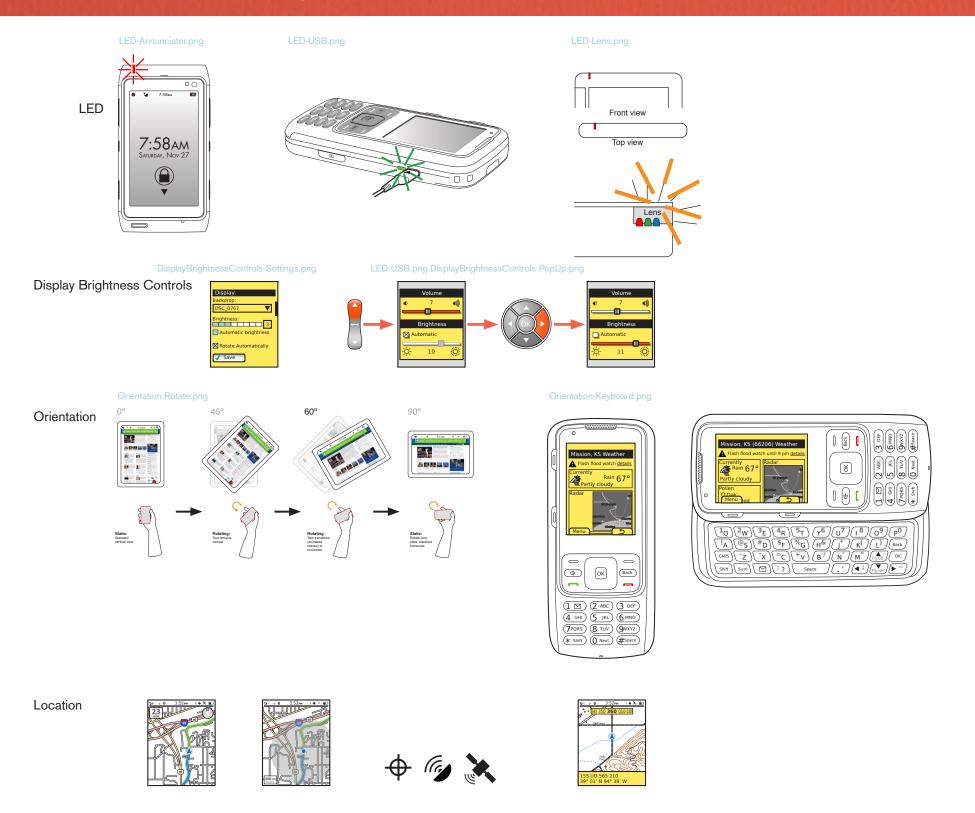
13 Audio & Vibration







14 Screens, Lights & Sensors







Appendixes

Appendixes

To keep the patterns focused on design and implementation, we have pulled all kinds of supporting information out of them. However, a lot of it is still very interesting.

And there's no good way for a designer or developer to get a summary of this sort of information.

So we have included it here in the form of appendixes, ordered so that you can just pretty much read it from one end to the other.

You'll find that a few of the appendixes are actually just lists of resources. And in this day and age, resources are links to websites—which, of course, will go out of date soon. Luckily, we keep this up to date on the <u>4ourth Mobile Design wiki</u>.

Visit anytime to get the latest updates, or just to avoid typing in long links from a piece of paper. And please add your own information, or update old or changed links.

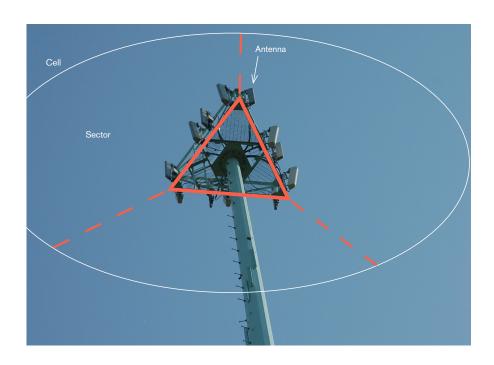


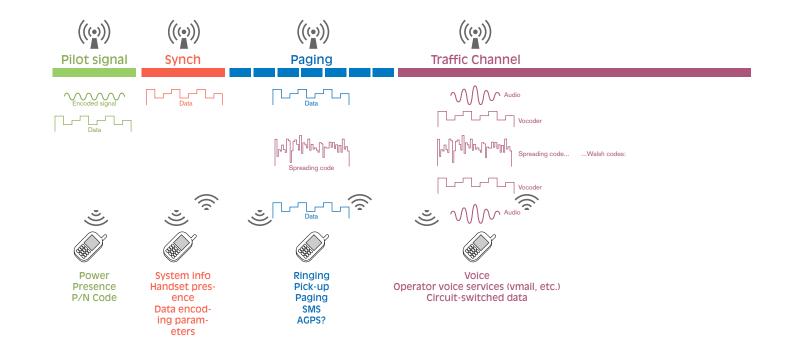
P to MP - Rcv Only Synch Freq Correction



Appendix

Paging Access





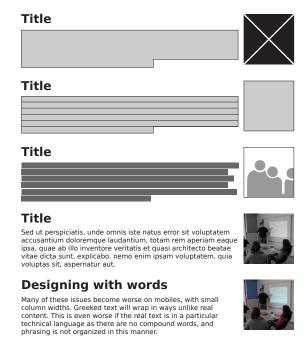


JANE DOE



Appendix

Greeking



Introduction to mobile typography













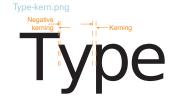


Type-legs.png

letterform

Type-width.png

Weight and width Weight and width



Type-leading.jpg



Type-accents.png



Type-s60sans-sample.png

S60 Sans 16 pt:

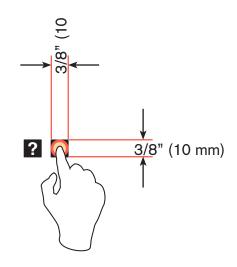


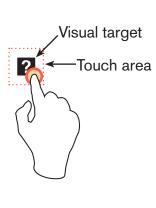


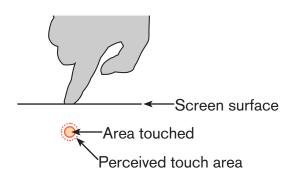


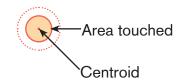
Appendix

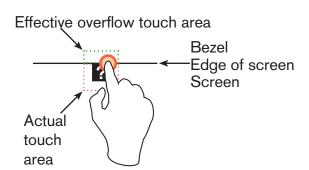
General Touch Interaction Guidelines













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shoobe01 on:

o You fine in











www.4ourth.com

every screen



