



Rapid Prototyping for the Web and Mobile Devices

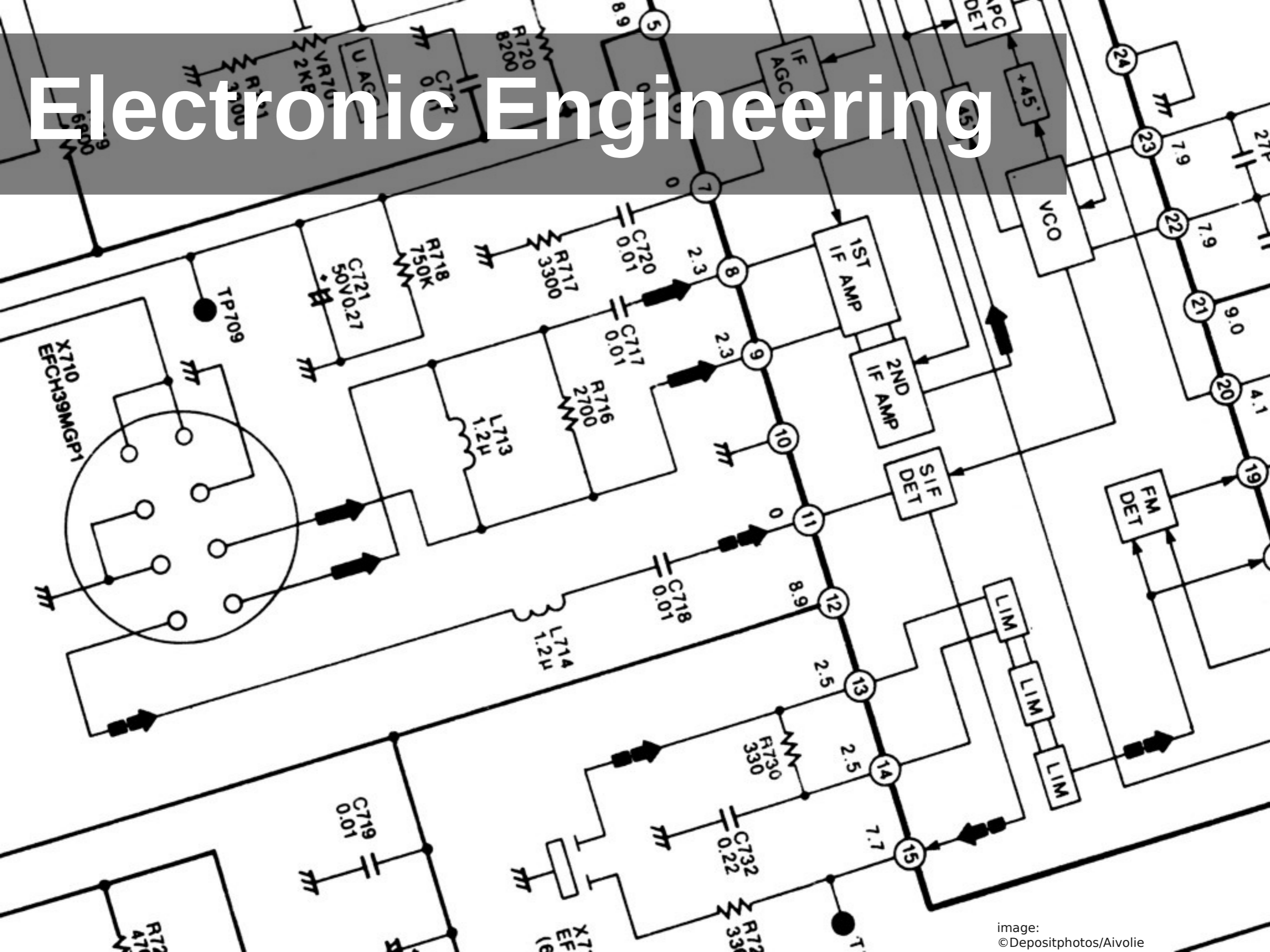
Marcio Leibovitch / @marciokl

About me

Brazil



Electronic Engineering



1992



<http://pc-museum.com>



Canada



Yu Centrik



TELE-QUEBEC logo
TESTS D'UTILISABILITE
SITE D'EMISSIENS
TELE

INSTRUMENTS
LOGO
REFORME DU
SITE WEB

DEVELOPPEMENT
MIQUE DU QUÉBEC
2005
ARCHITECTURE D'INFO

VIDÉOTEX logo
RECHERCHES SUPPLÉMENTAIRES
PAGE DE COMMENCEMENT

2006

2007

2008

YUCENTRIK

Josée

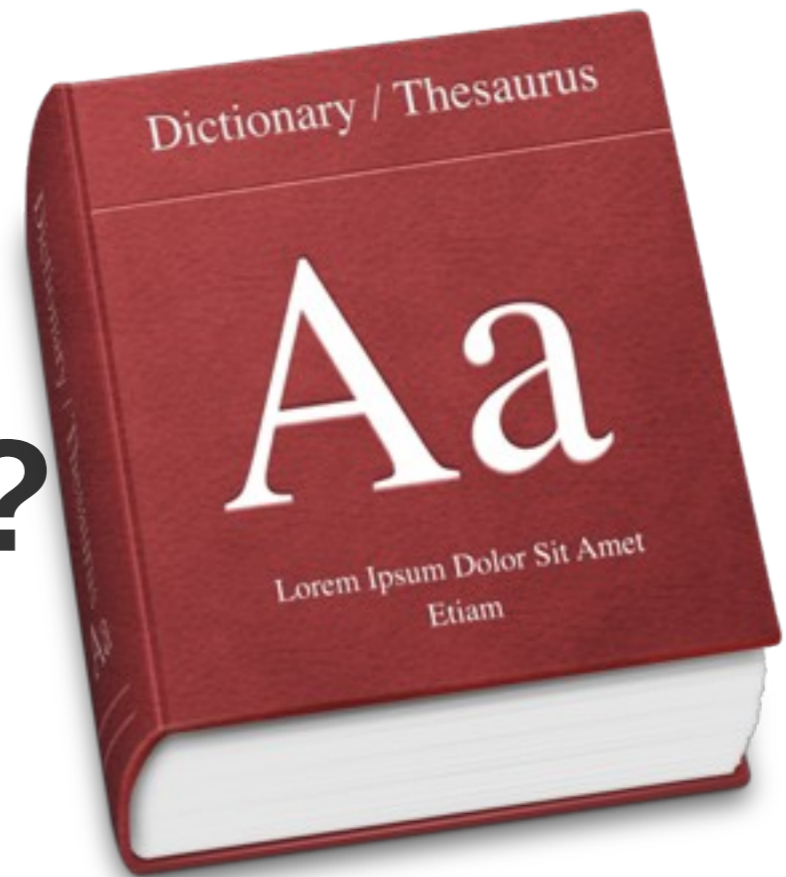
UXalliance

The global network for
user experience



Definition

What is a prototype?



pro•to•type |'prōtə,tīp|

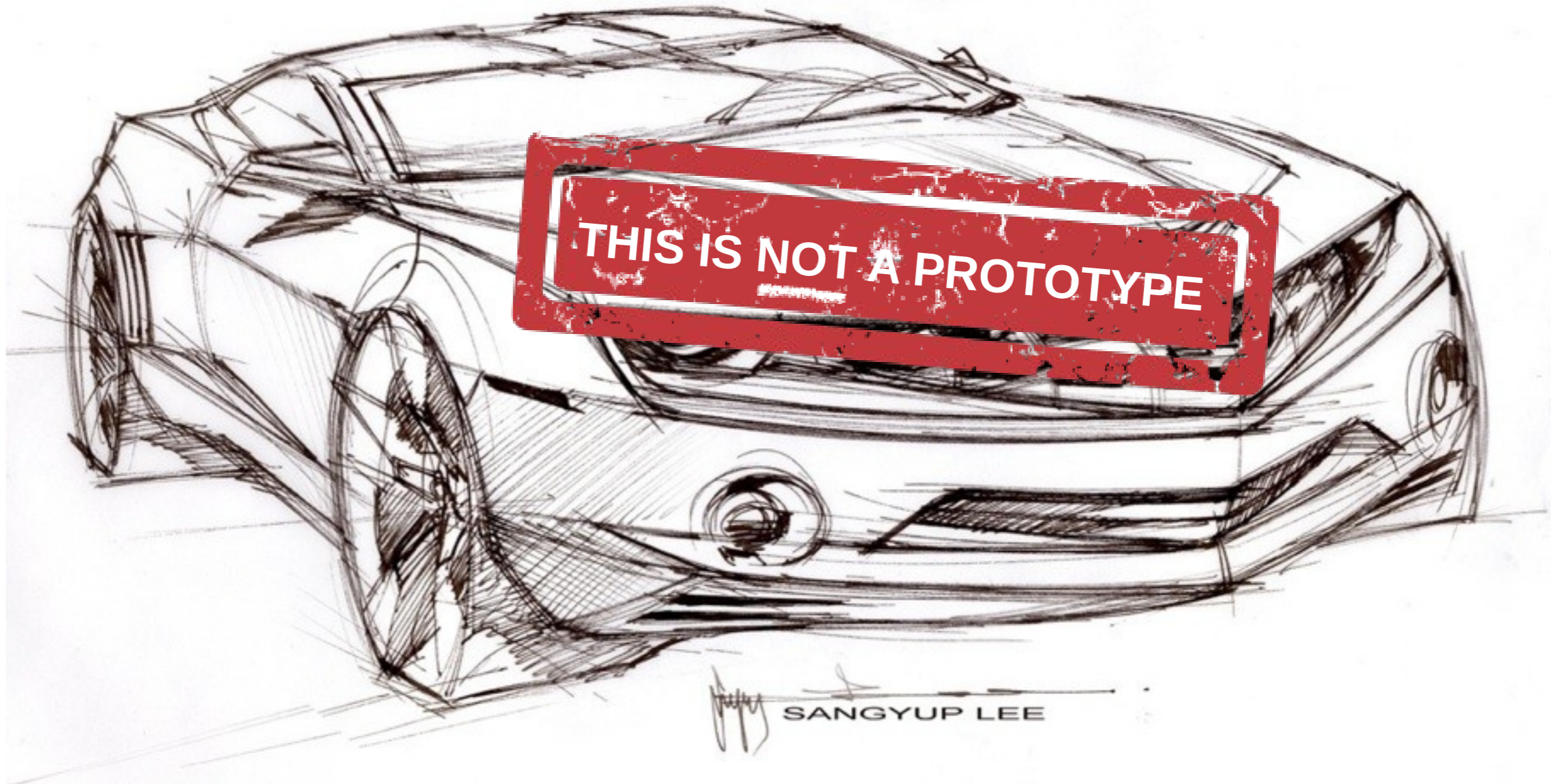
noun

model and preliminary implementation for the evaluation of the design of a system, its implementation and its potential, or identification and understanding of the needs.

pro•to•type |'prōtə,tīp|

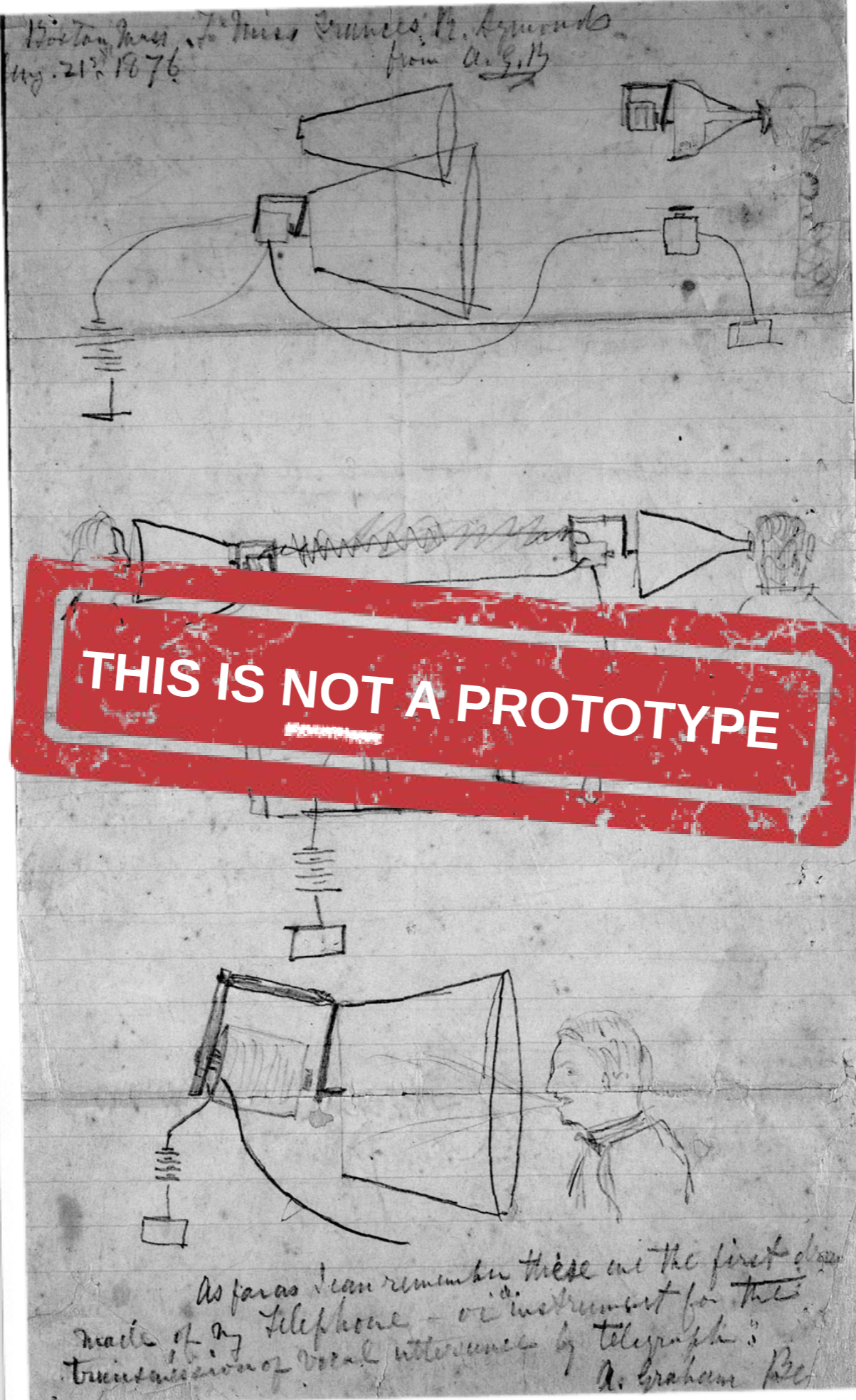
noun

model and **preliminary** implementation for the **evaluation** of the design of a system, its implementation and its potential, or identification and **understanding** of the needs.



THIS IS NOT A PROTOTYPE

[Signature] SANGYUP LEE

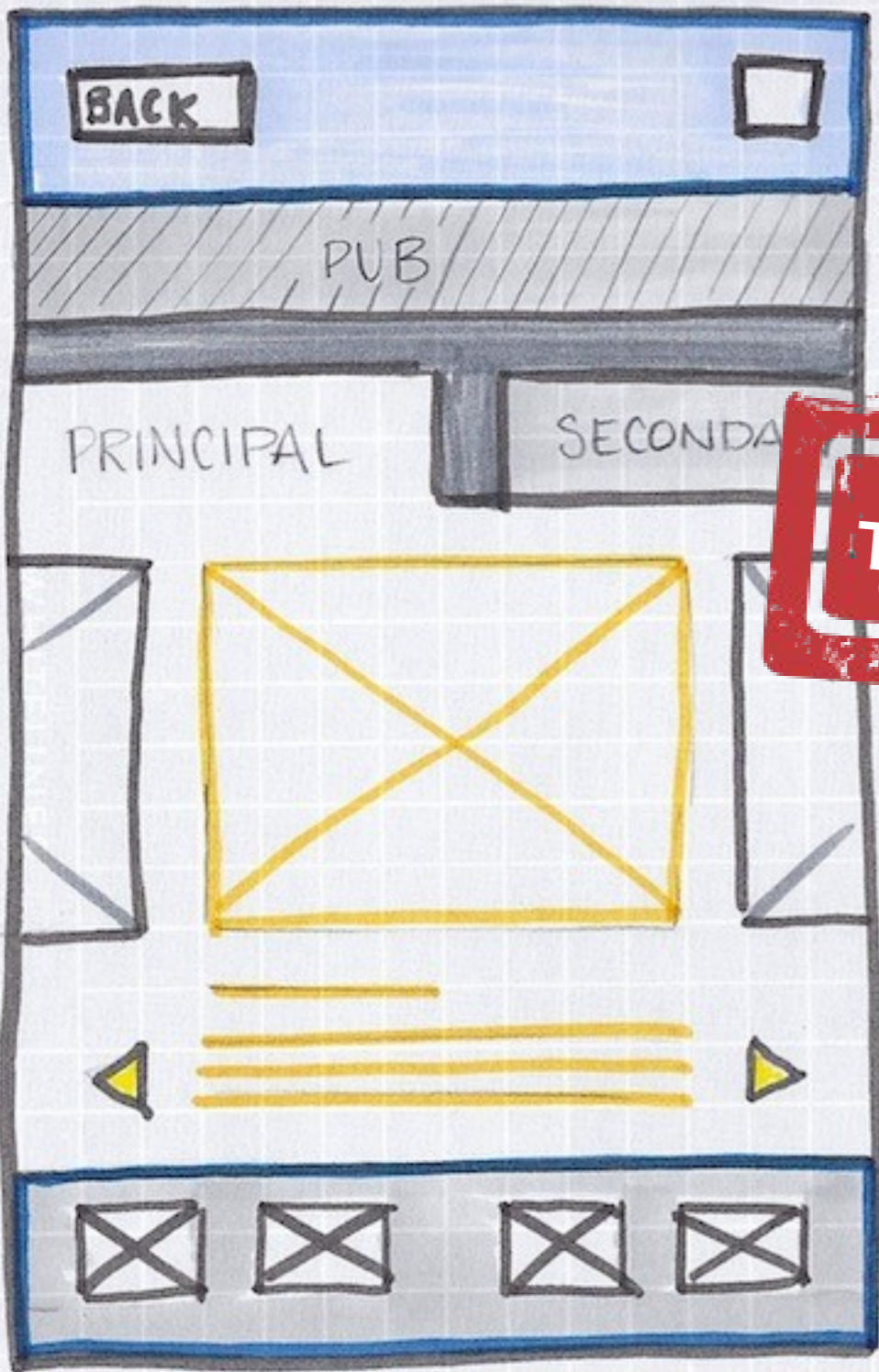


Alexander Graham Bell's design sketch of the telephone

Sketches, undated; handwritten text top and bottom of page, 1876.

Box 273, "Subject File: The Telephone--Drawing of the Telephone, Bell's Original"

Alexander Graham Bell Family Papers, Manuscript

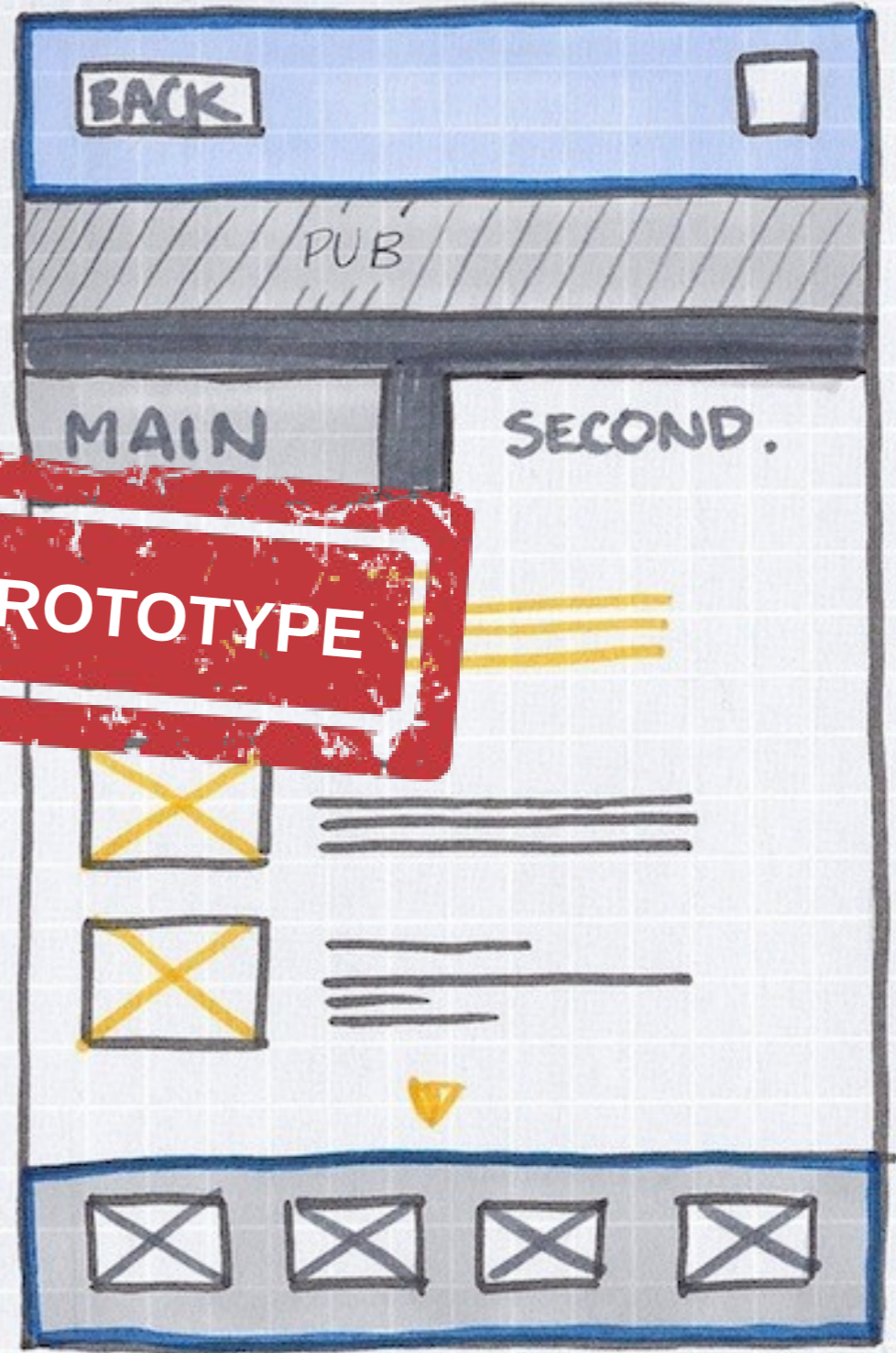


IAD - PROVIDED BY APPLE

THIS IS NOT A PROTOTYPE

ORGANIZE BY DATES

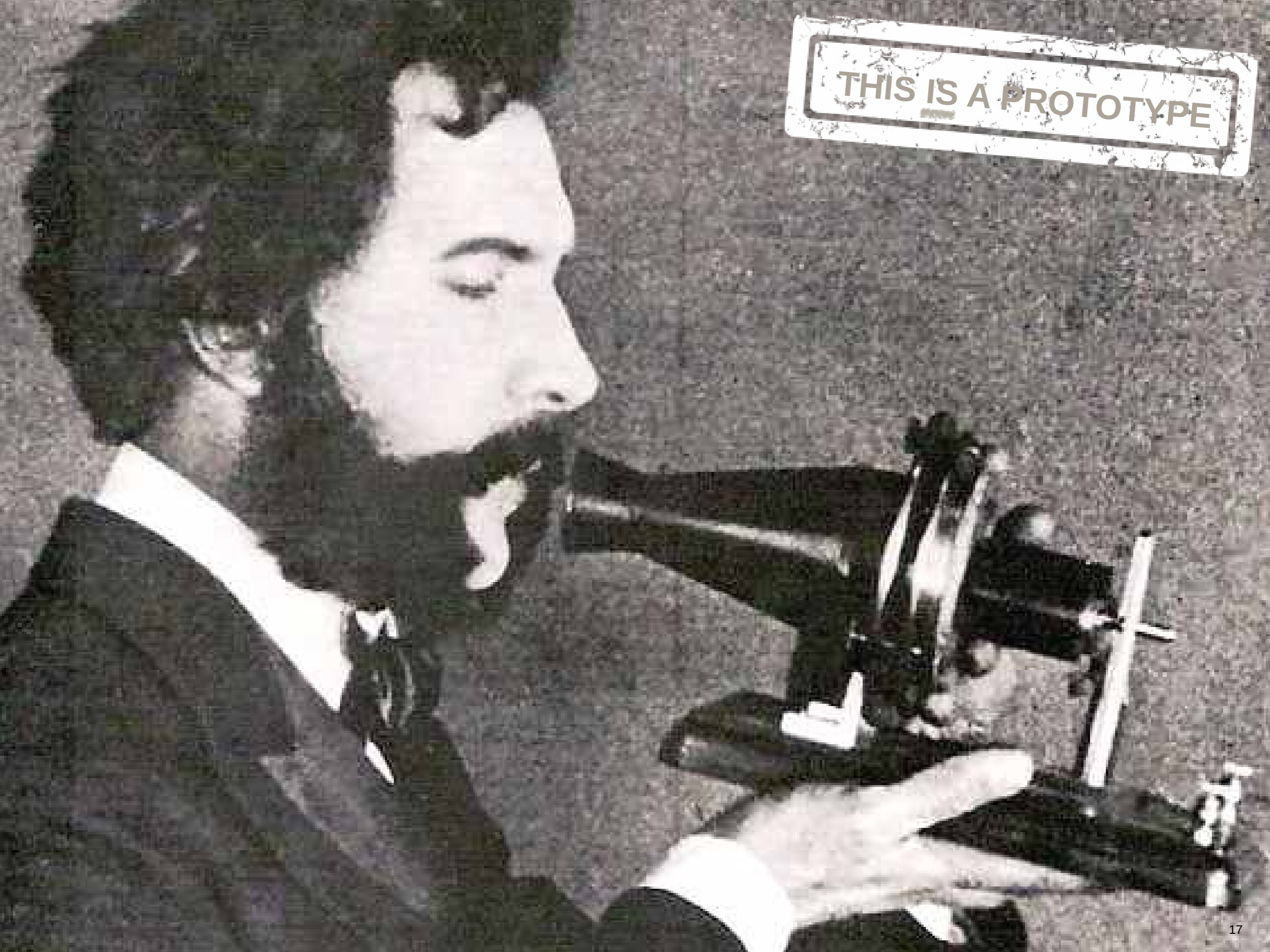
STANDARD IOS MAIN



THIS IS A PROTOTYPE



THIS IS A PROTOTYPE



THIS IS A PROTOTYPE



CARRIER 3G 10:00 AM

Back

Sub-group 1

Type 1

\$50

Type 2

\$200

Instructions like you can always tap on the bottom bar to open etc etc etc.

Action 1

Action 2

More

Why do prototypes matter?

Prototypes allow you to **check your assumptions** and by checking your assumptions you **minimize the risk of making mistakes** when it's too late and too expensive to correct them.

rapid prototype

Is it possible to **rapid** prototype
any kind of product?



Rapid Prototyping

Our typical projects

National Bank of Canada

La Gauchetière



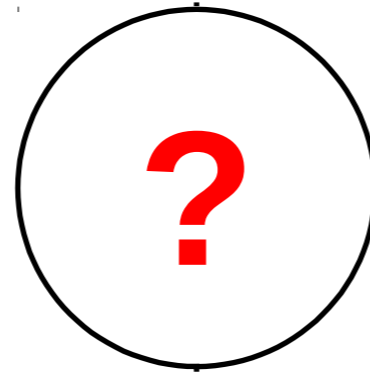
a client 

+

an idea 

=

a challenge 



**Small budget
Tight schedule
Limited resources**



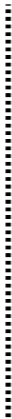


*** Validate as we go along ***

*** Communicate well ***



Abstract



prototyping



Concrete

**Prototyping is a way to
materialize an idea**

**Prototyping is above all a
means of communication**



PROTOTYPE #1



Validate the client's idea
(did we get it right?)

PROTOTYPE #2



Validate our design decisions
(usability, mental model)

PROTOTYPE #3



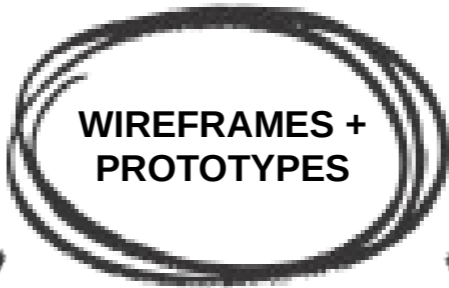
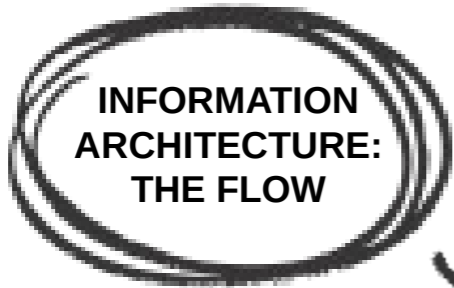
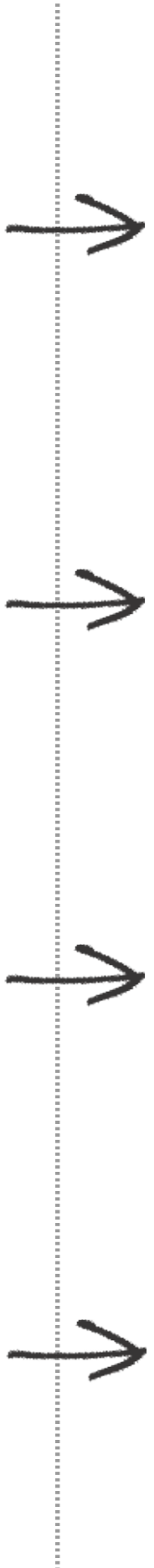
Give clear specifications
to developers



Rapid Prototyping

Details of the design process

USER RESEARCH



USER RESEARCH



**INFORMATION
ARCHITECTURE:
THE FLOW**

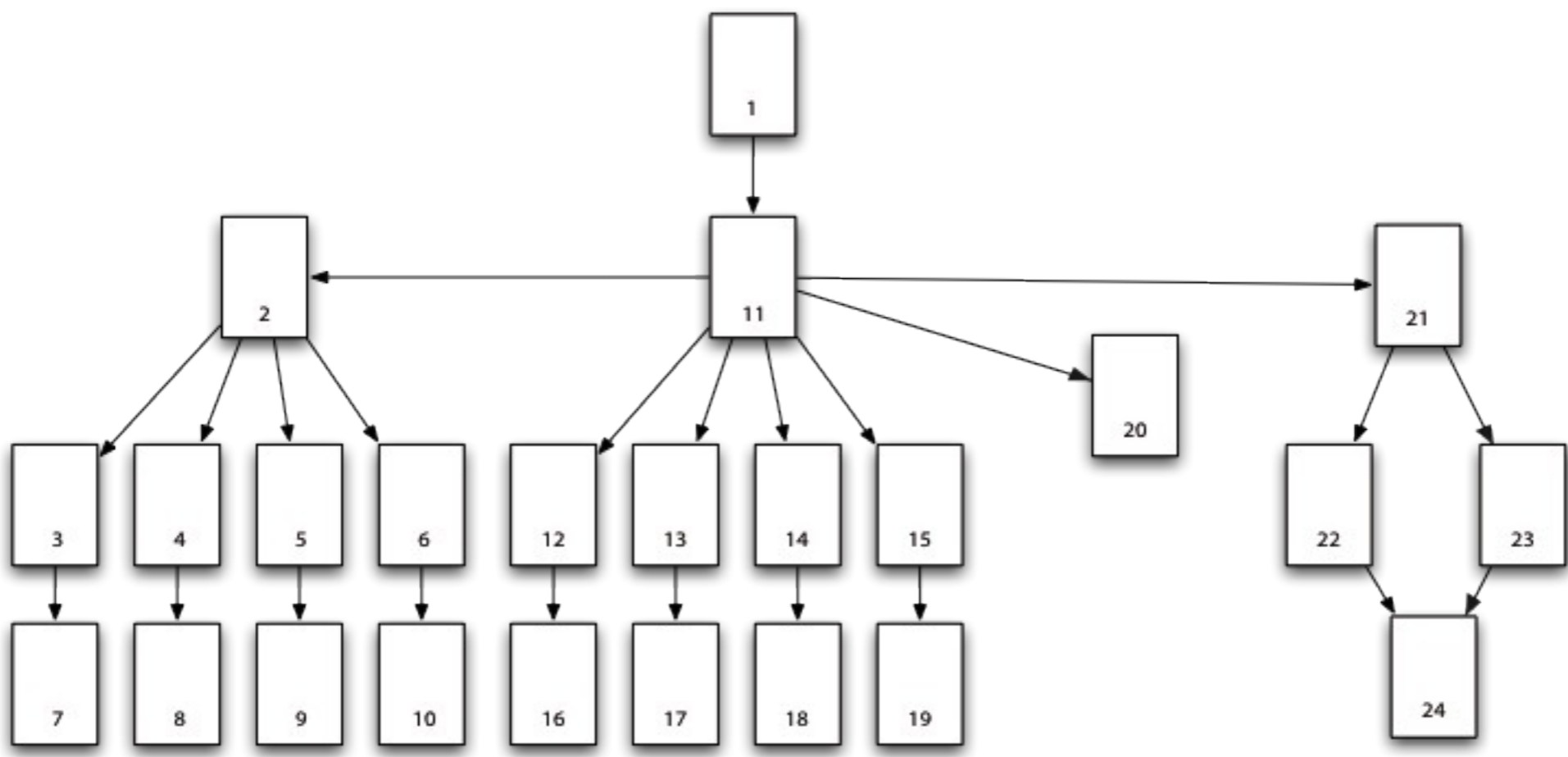
SKETCHES

**WIREFRAMES +
PROTOTYPES**

DEVELOPMENT

USER TESTS

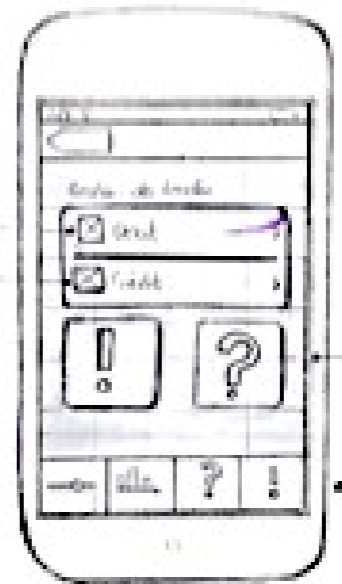
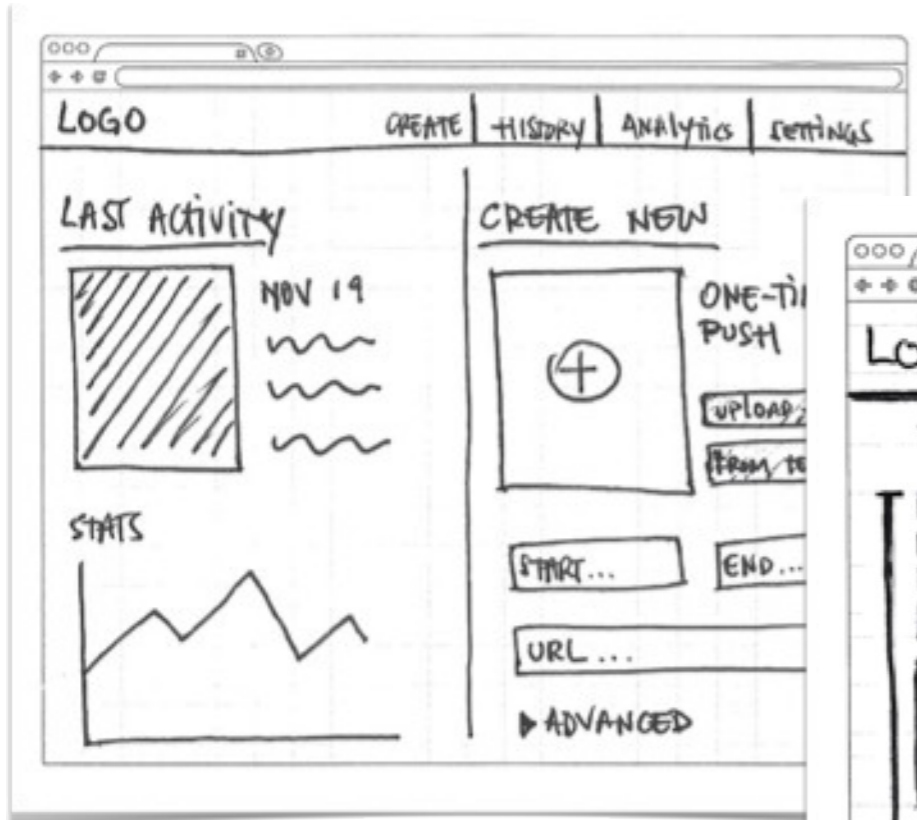




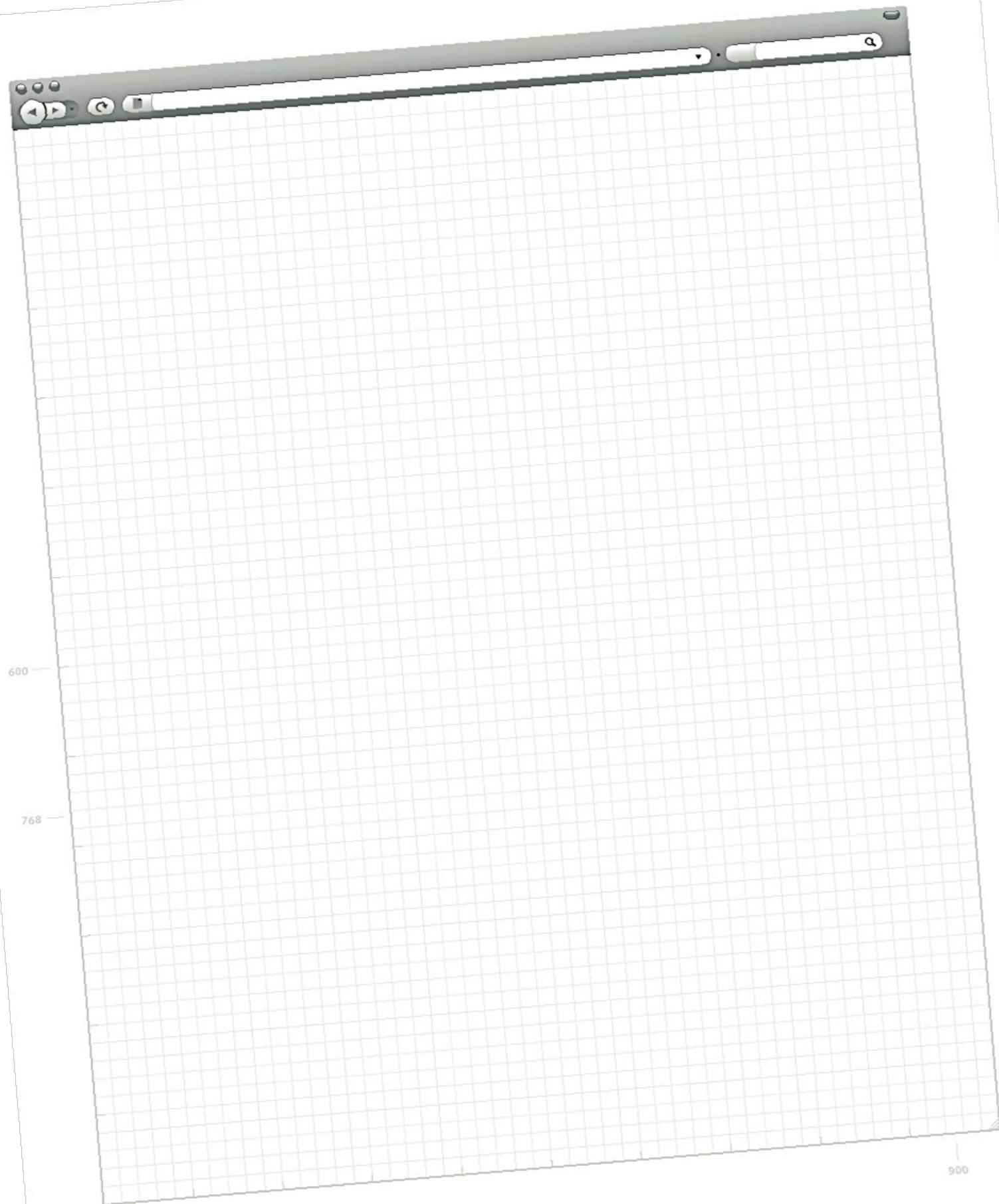
INFORMATION ARCHITECTURE: THE FLOW

SKETCHES

WIREFRAMES + PROTOTYPES



J. TRANSDOMINE FIVE REM CREDIT US OLBIT



600

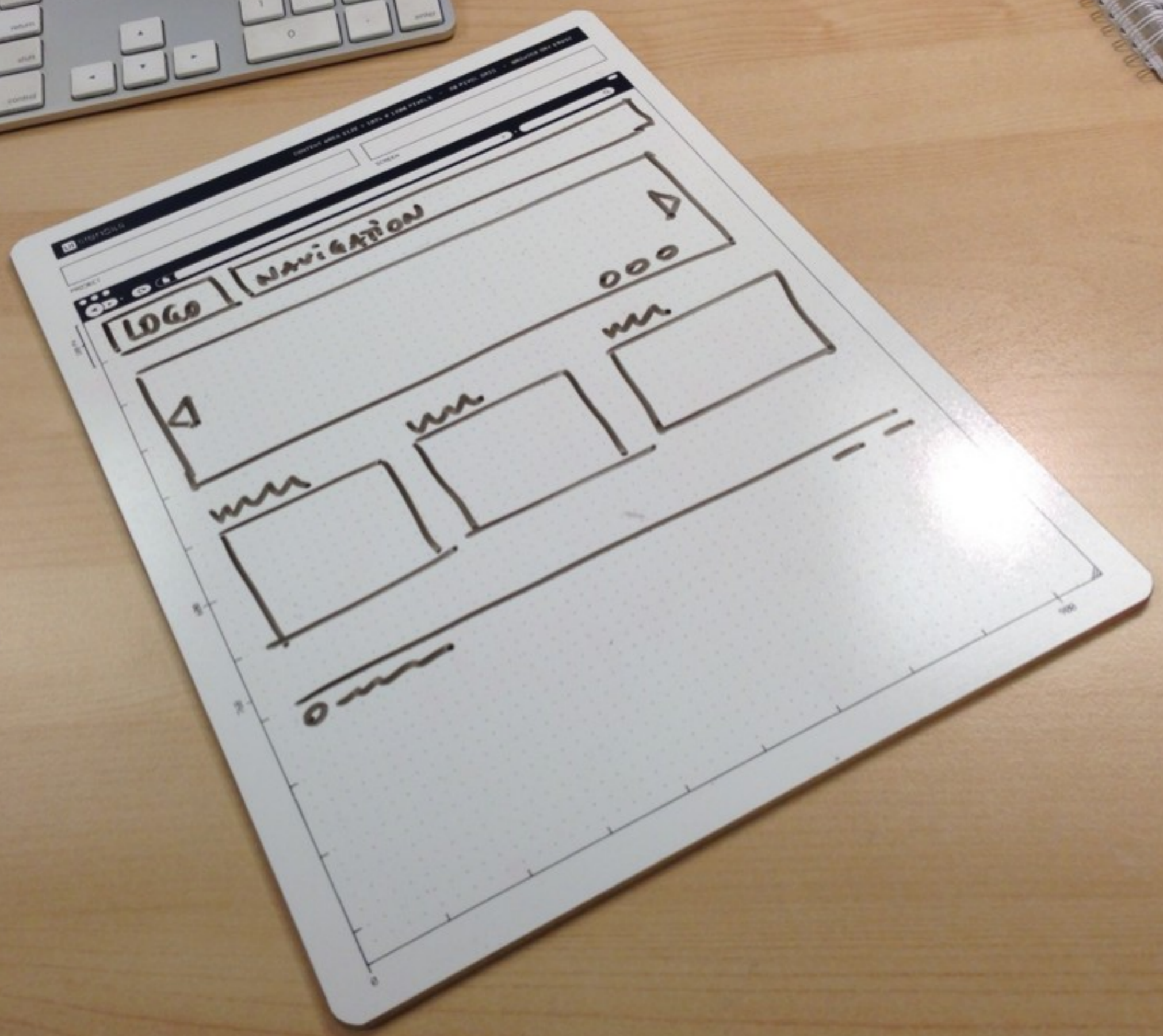
768

900

0

 stencils

<http://static.shopify.com/s/files/1/0042/9602/files/web-site-stencil-template-letter.pdf?1264203576>





SQUARED

Swedish innovation for improved
reading and writing
Zero Carbon Footprint
Perfect bound Black, pocket (90 x 145mm)
80g, 36 sheets



WHITELINES
SUPPORTING YOUR IDEAS

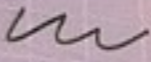
BACK

YOUR OPTION

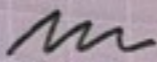
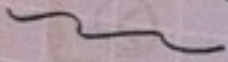
EDIT

SUB GROUP 1

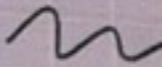
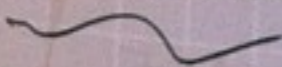
THIS IS THE DETAIL



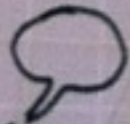
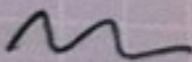
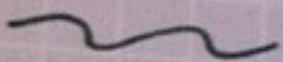
SUB GROUP 2



SUB GROUP 3



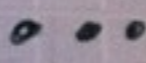
SUB GROUP 4



CHAT



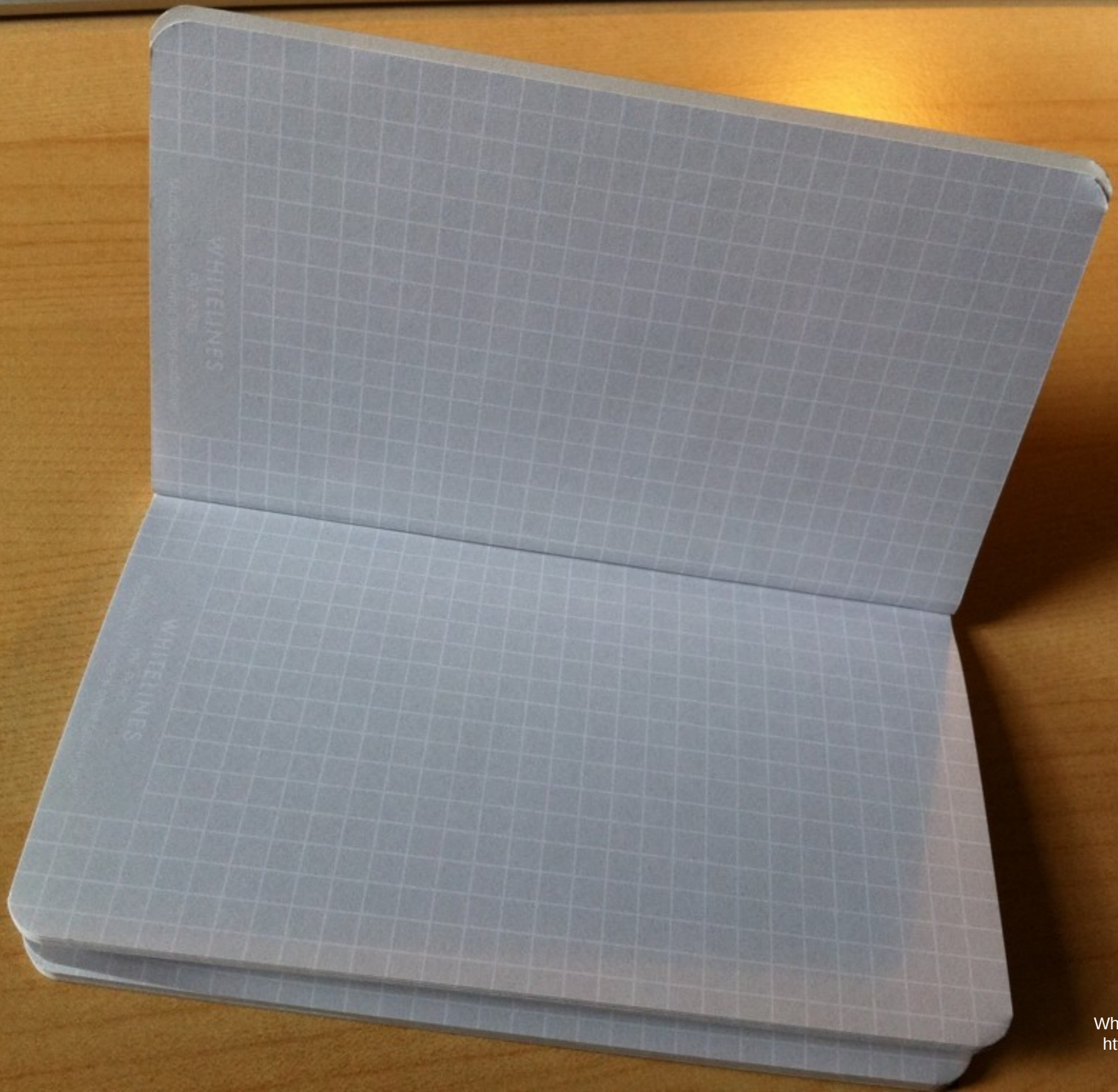
ACTION



MORE

WHITELINES

WHITELINES





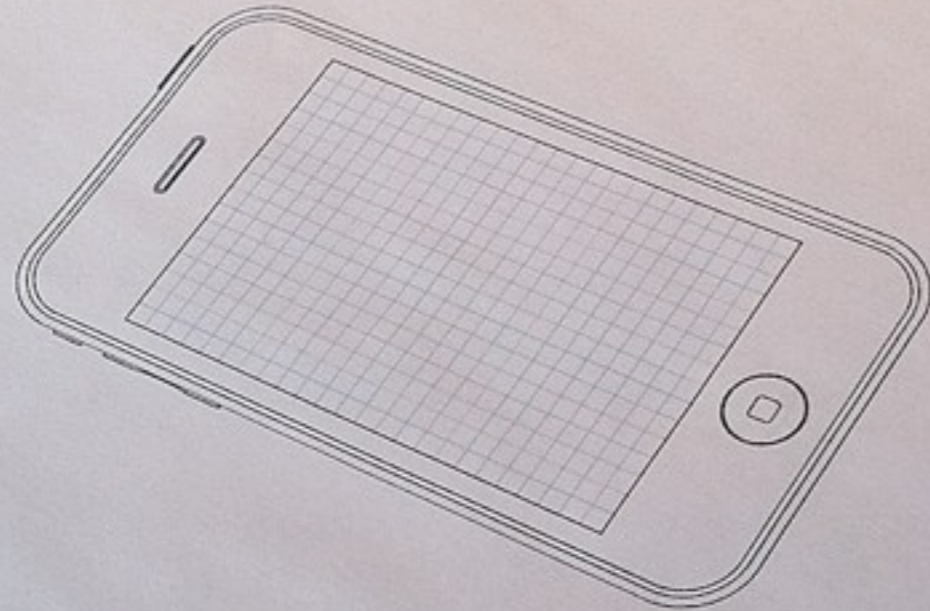


UI Stencils

<http://www.uistencils.com/products/iphone-sketch-pad>



iPhone Wireframe Prototyping Pad
<http://paperwireframes.com>



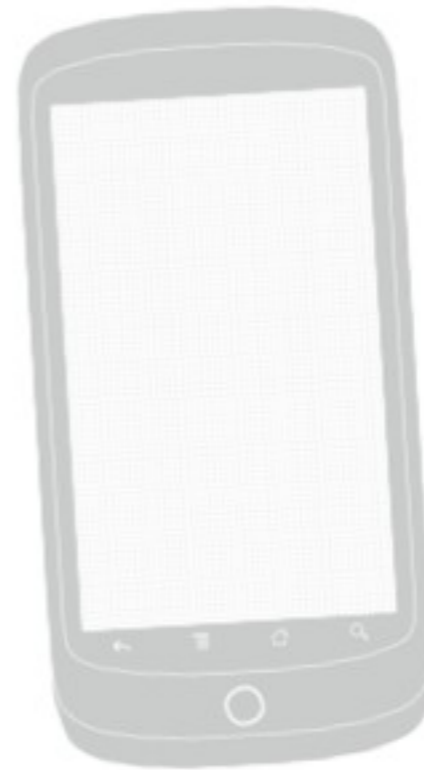
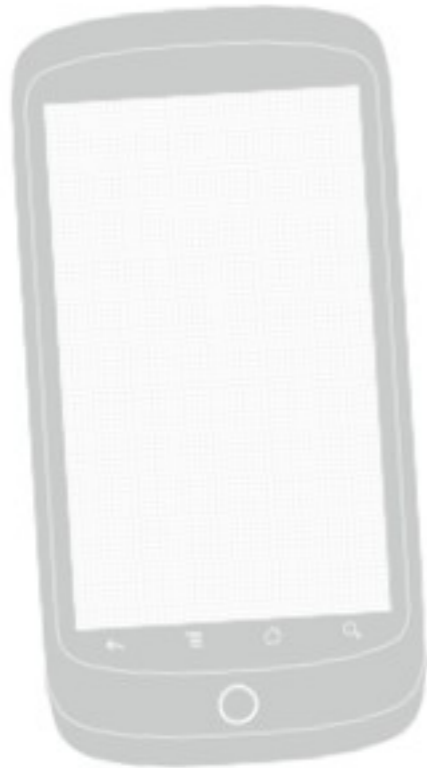


http://www.erikloehfelm.com/iphone_sketches/iphone_sketchboard.pdf

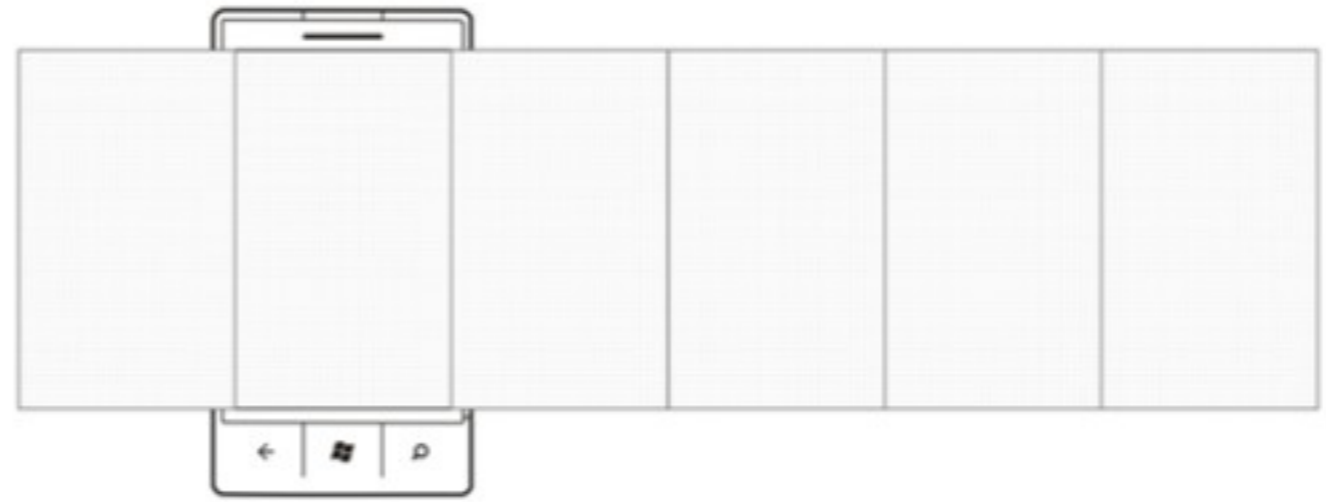
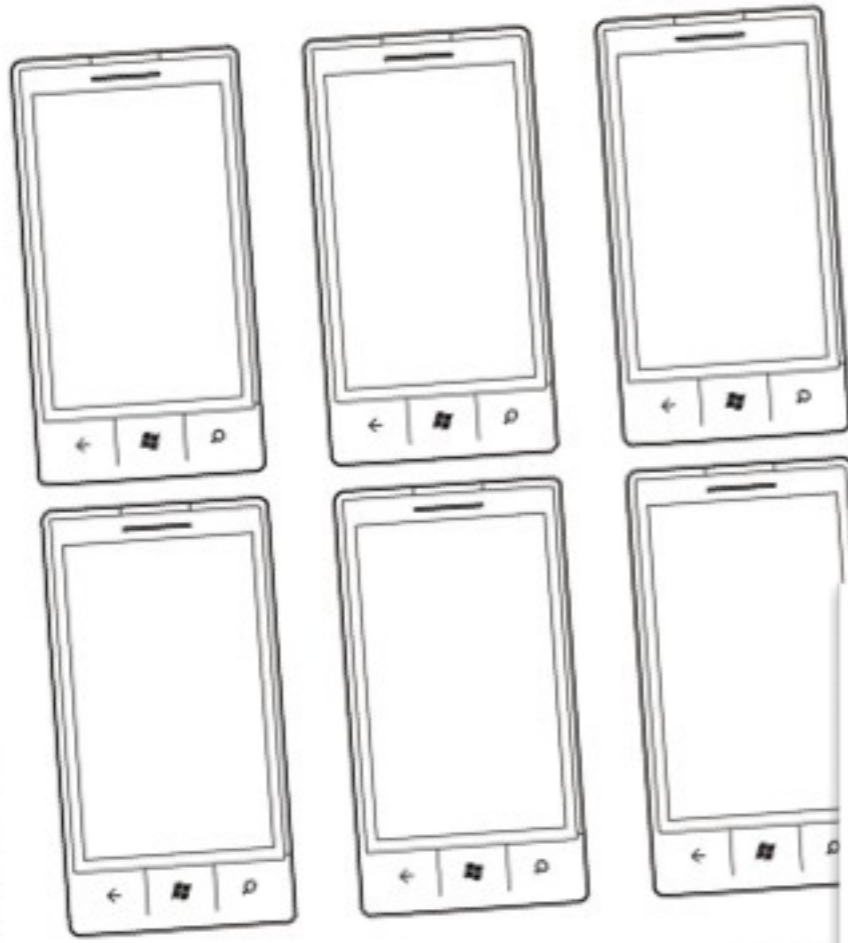
<http://interactivelogic.net/wp/2009/09/iphone-wireframe-templates/>

HTC Nexus One™ - 3up

Resolution: 480x800
Virtual Keyboard



Android™ Wireframe Templates v1.0





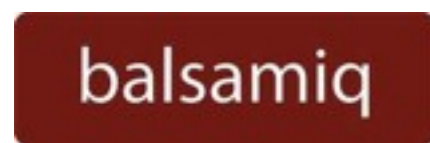
Wireframes + Prototypes

Wireframes +
Prototypes

How do we choose the right tool for the job?



INTERFACE APP



LUCIDCHART
THE CANVAS FOR THE WORLD'S IDEAS



POP

mockingbird



REALIZER®



BLUEPRINT



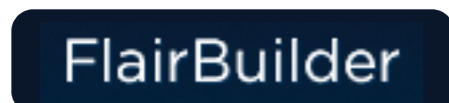
DAPP



moqups



APP COOKER



APP IN
SECONDS



SOFTANDGUI



MOCKABILITY



IMOCKUPS

Wireframes +
Prototypes

How do we choose the right tool for the job?

- Web app?
- Desktop app?
- Mobile app?
- Full-featured?
- Hotspot only?
- Lots of questions... the key is answering the **right ones**

Wireframes +
Prototypes

How do we choose the right tool for the job?

- What's the goal of the prototype?
- Who's the audience?
- What level of fidelity do you need?
- How will you distribute the prototype?
- What level of prototyping collaboration do you need?
- How will you get feedback from users?
- How familiar are you with the tool?
- How much does it cost?
- How many people are using it?
- What are the chances that it will stay on the market for a longtime?
- Can you use it in your organization?

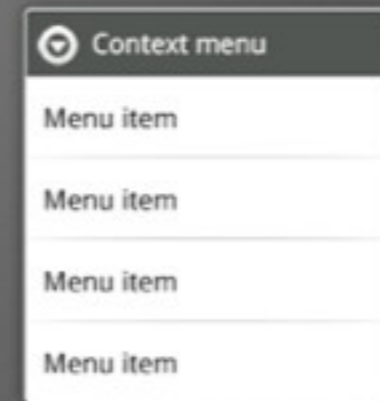
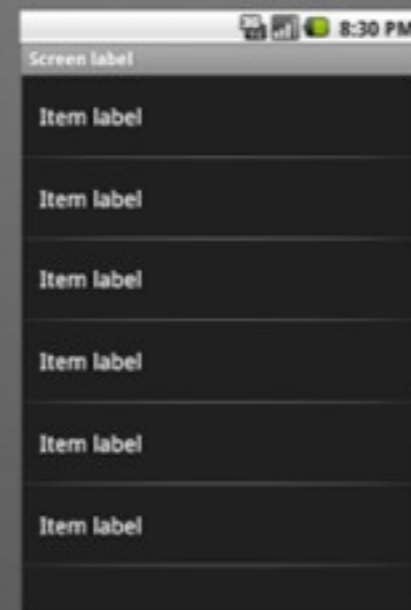
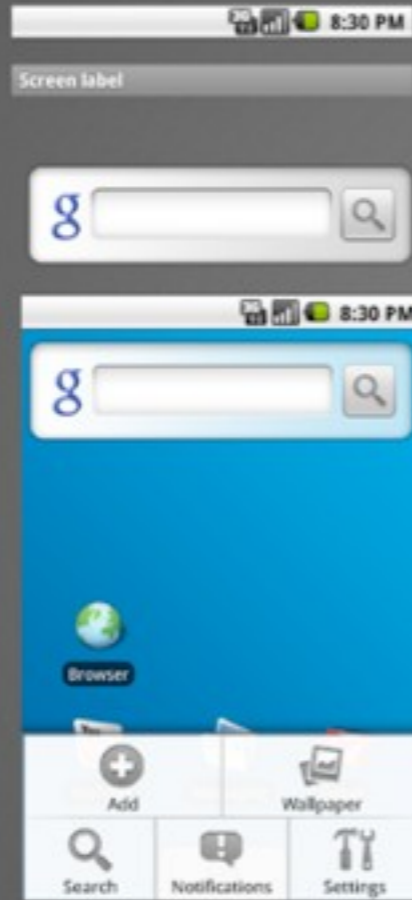
Choose a tool and then:

- 1** LOAD LIBRARIES
- 2** BUILD WIREFRAMES
- 3** ADD INTERACTIVITY
- 4** SHARE PROTOTYPE

**Load
libraries**

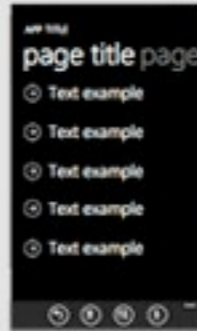
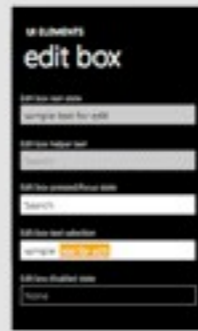
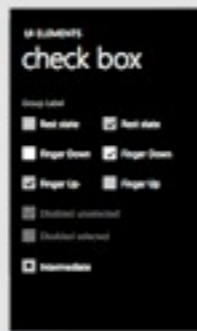
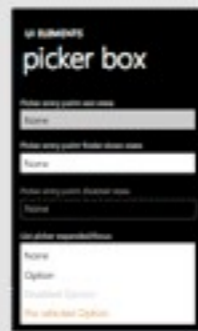
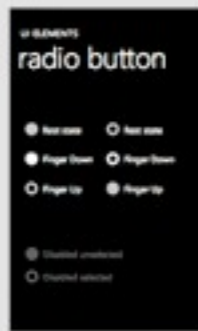


STANDARD UI ELEMENTS



Android GUI PSD version 1.0

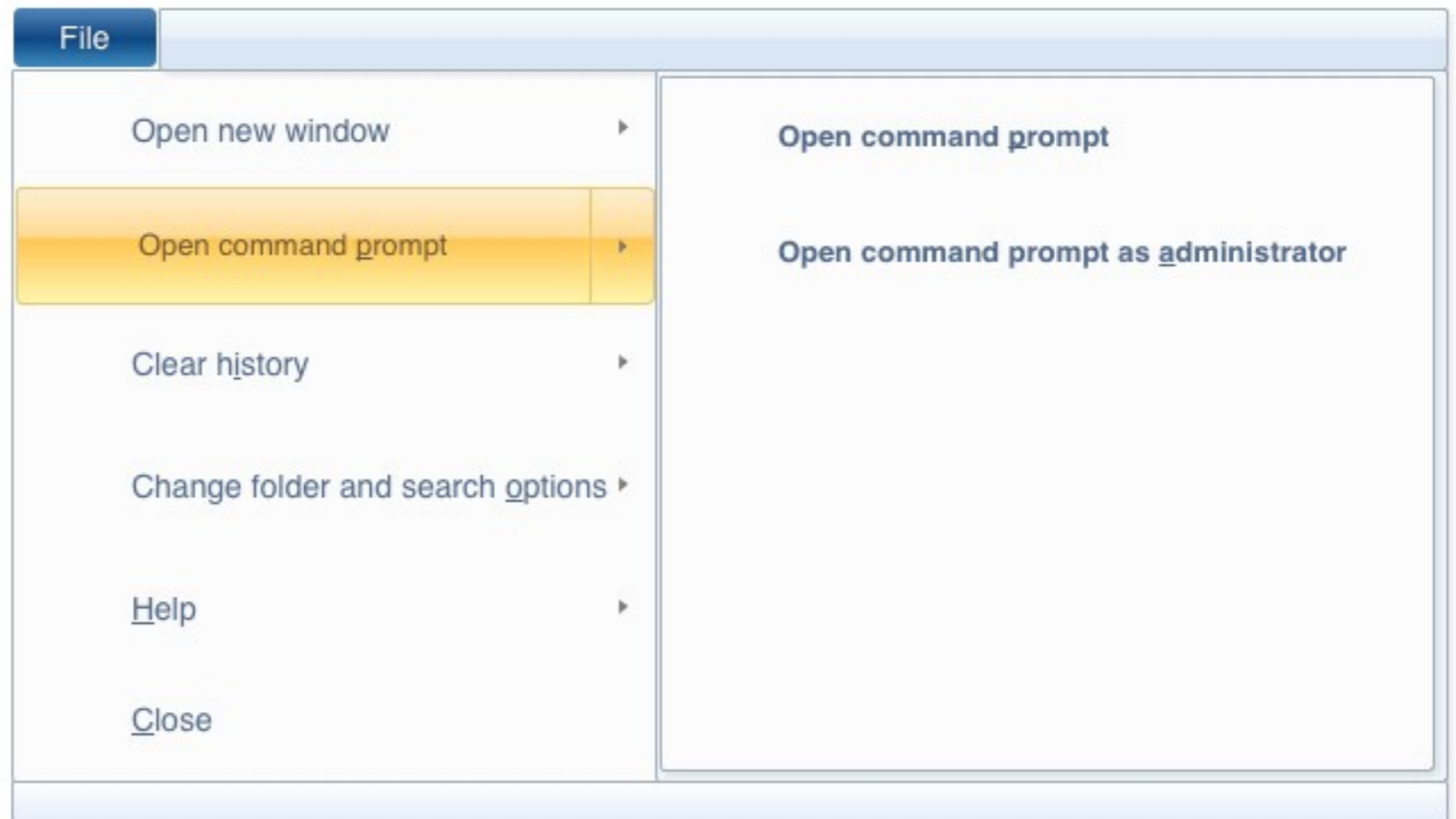
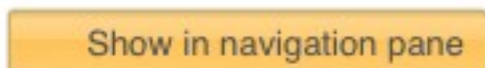
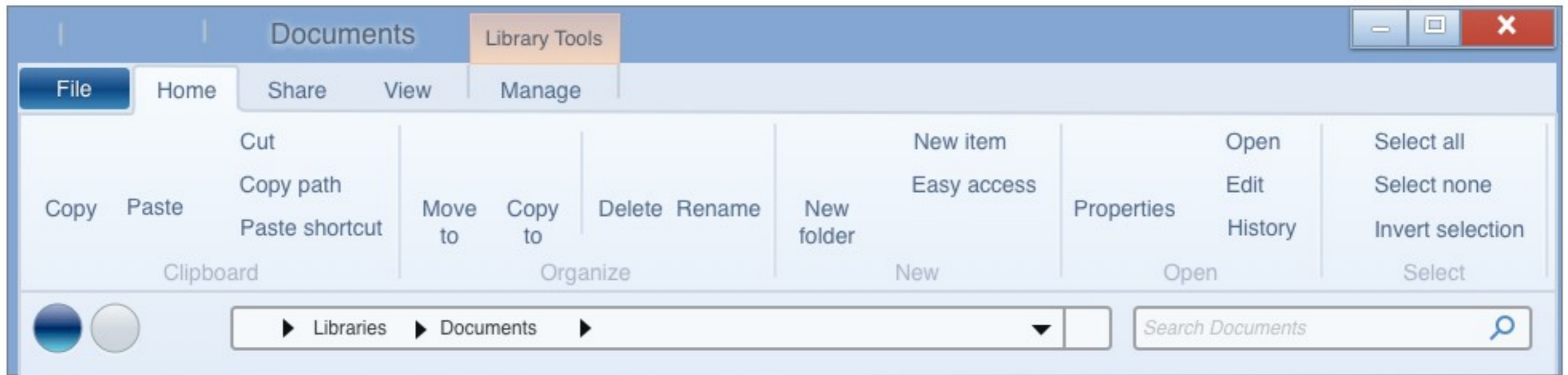
Prepared by matcheck.cz

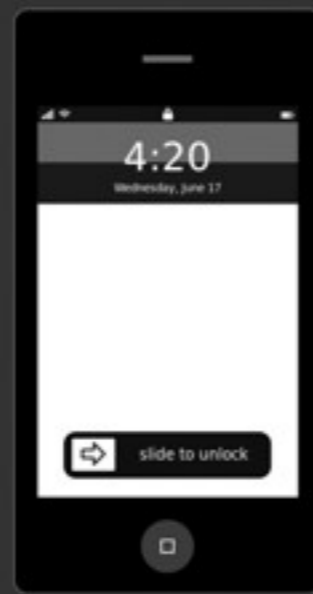


marlin mobile
user experience / performance / optimization

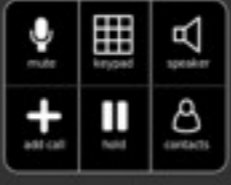
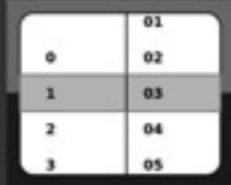


Windows Phone 7 UX Stencil
Created by: Marlin Mobile
Follow us on Twitter @MarlinUX
Version 1.0





teehan+lax



Carrier 12:34 PM

Screen Name

Page Title Cancel

http://wireframesketcher.com

Page Title

http://wireframesketcher.com Google

Label

Label

Label One

Label Two

✓ Label Three

Label Four

Label Five

text entry

04:20

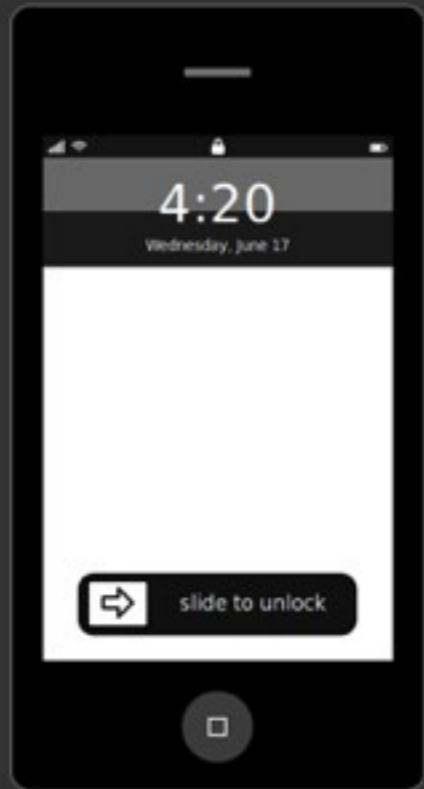
ON OFF

Icon

Title

Alert message

Cancel OK



	01
0	02
1	03
2	04
3	05

(416) 340-9888

1	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ
* +	0 +	#
+ 📞	Call	📧



Carrier 12:34 PM

Screen Name

Cancel New Message Send

Page Title

http://wireframesketcher.com Google

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Label

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Label One Label Two

Label One One >

Label Two Two >

Label Three Three >

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Label Label

Label Label

Label Label Label

Button Label

mute keypad speaker

+ || 📞

add call hold contacts



Copy Copy signing great us

Select Select All Paste

Select Select All Paste

Copy

We believe that we are designers

Carrier 12:34 PM

Messages (416) 340-8999 Edit

This is a message, Lorem ipsum dolor sit amet


This is a message, Lorem ipsum dolor sit amet

This is another message here.

Send

Enter PIN 12:24

PIN must be 4 digits

 **Caps Lock is on**
Having Caps Lock on may cause you to enter your password incorrectly.
Press Caps Lock to turn it off before entering your password.

- Selected
- Mouse Over
- Unselected
- Disabled
- Partially Selected
- Selected
- Mouse Over
- Unselected
- Disabled

[Browse the Internet now](#)

[Set up a new connection anyway](#)

8
9
10
11
12
....

List Item
List Item
List Item
List Item
List Item

Group

Large Button

Ok

Cancel

Cancel

Open

Open

- Context Menu Item
- Context Menu Item
- Context Menu Item
- Context Menu Item
- Context Menu Item

54%



PROTOTYPE #1



Validate the client's idea
(did we get it right?)

PROTOTYPE #2



Validate our design decisions
(usability, mental model)

PROTOTYPE #3




Give clear specifications
to developers




inVISION [HOME](#) [MY PROJECTS](#) [UI KITS](#) [Download Our FREE Desktop Sync App Today!](#) [Getting Started](#) [Contact Us](#) Marcio Leibovitch

MY PROJECTS


You have 2 screens across 1 project.




Create New Project



BN



High-Fidelity Prototype




Interactive Wireframe









REALIZER **RETHINK** **Nascent**

[Back to your Presentation Prototypes](#) [Sign out](#)

BNGF [EDIT](#)

Click here to add a description for this prototype. [EDIT](#)




SCREEN NAME	PORTRAIT	LANDSCAPE
login-320	  EDIT DELETE	  EDIT DELETE
login-view-options-320	  EDIT DELETE	  EDIT DELETE

iPhone 1
Landscape

[ADD NEW SCREEN](#)

USEFUL TEMPLATES	REALIZER PRESS KIT	REALIZER STEP-BY-STEP
<ul style="list-style-type: none"> - Teahan + Lax iPhone Design Template - Teahan + Lax iPhone Design Template (retina display) - Teahan + Lax iPad Design Template - Yahoo! Design Library - Grafflepic: Stencil for OmniGraffle - iPhone Sketch Template 	<ul style="list-style-type: none"> - Press Release (PDF) - Introducing Realizer (Video) - Image: Launch Screen (PNG) - Image: Home Screen (PNG) - Image: List View (PNG) - Image: Promo Screen (PNG) 	<ul style="list-style-type: none"> - STEP 1: Build your app prototype - STEP 2: Upload your screen mockups - STEP 3: Link your screens - STEP 4: Download and run the Realizer app - STEP 5: See your ideas in action

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POP

prototyping on paper

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iPhone prototyping made easy.

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Wireframes + Prototypes

Keynote / PowerPoint



Wireframes + Prototypes

Keynote / Powerpoint



The image shows a screenshot of a presentation software interface. The main window is titled "Untitled" and features a toolbar with various tools such as "New", "Play", "View", "Guides", "Themes", "Masters", "Text Box", "Shapes", "Table", "Charts", "Comment", "Share", "Mask", "Alpha", "Group", "Ungroup", "Front", "Back", "Inspector", "Media", "Colors", and "Fonts". Below the toolbar is a "Slides" panel on the left, showing a single slide thumbnail labeled "1".

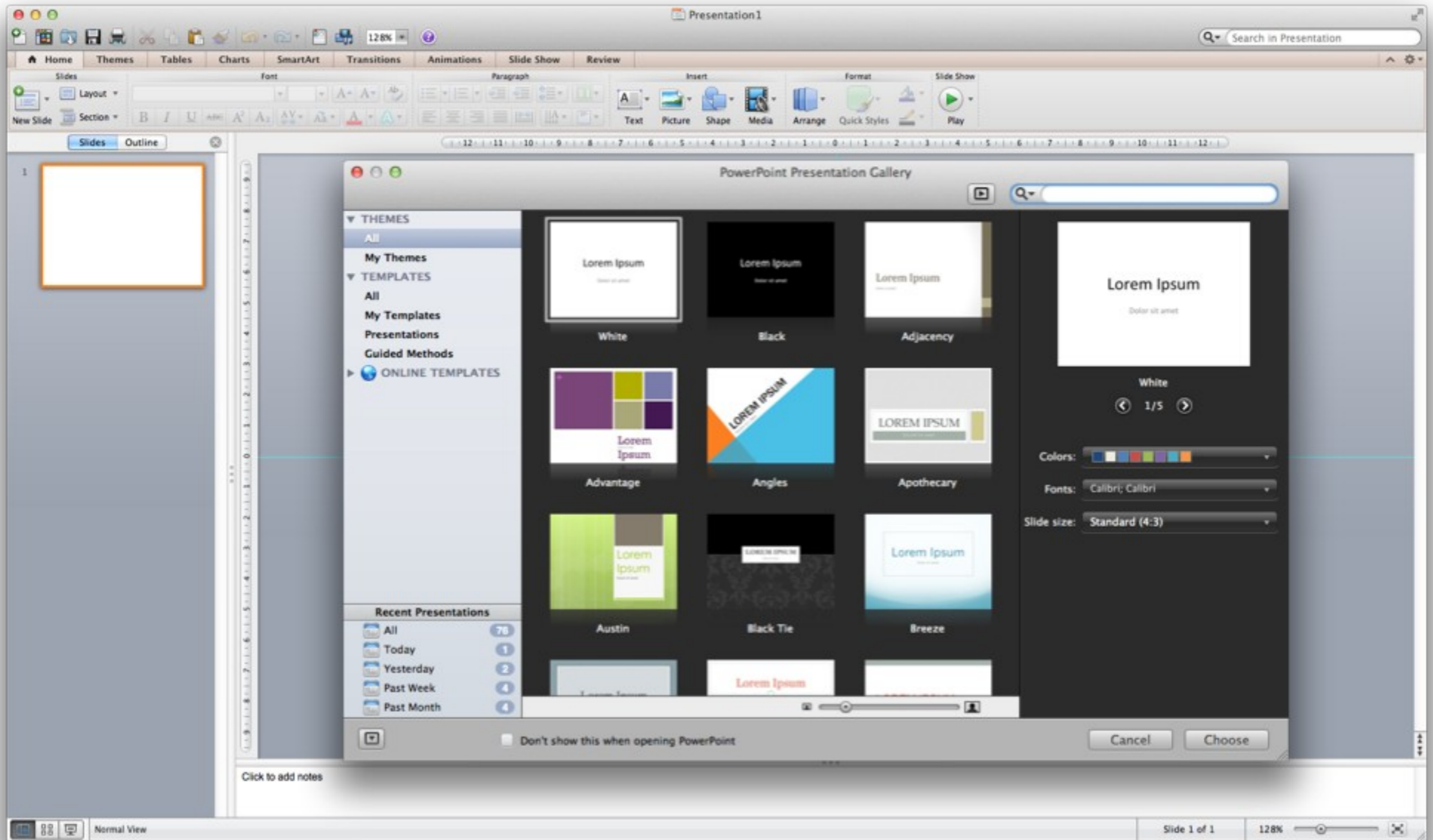
In the center, a "Theme Chooser" dialog box is open, displaying a grid of theme thumbnails. The themes shown are:

- White
- Black
- Gradient
- SHOWROOM
- VENETIAN
- Retro
- Editorial
- KYOTO
- TYPESET
- Craft

At the bottom of the dialog box, there is a "Slide Size" dropdown menu set to "1024 x 768". Below this are buttons for "Open Recent", "Open an Existing File...", "Cancel", and "Choose". A zoom slider is also visible at the bottom of the dialog box.

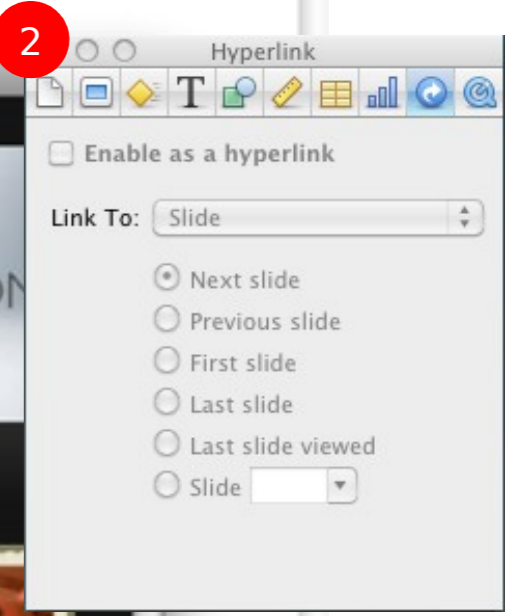
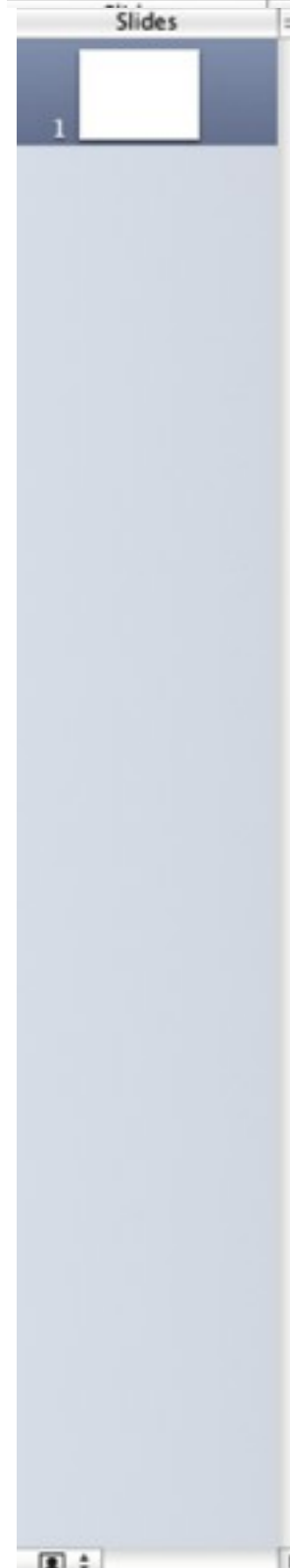
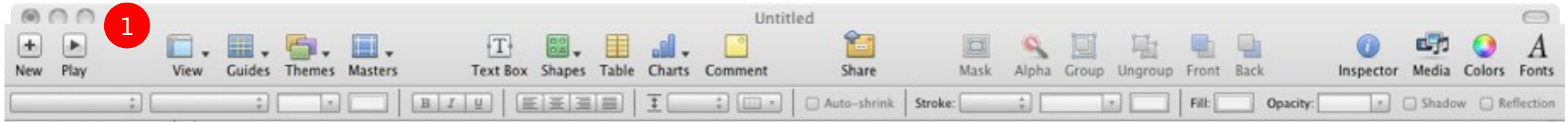
Wireframes + Prototypes

Keynote / Powerpoint



Wireframes + Prototypes

Keynote / Powerpoint



Keynote / Powerpoint:

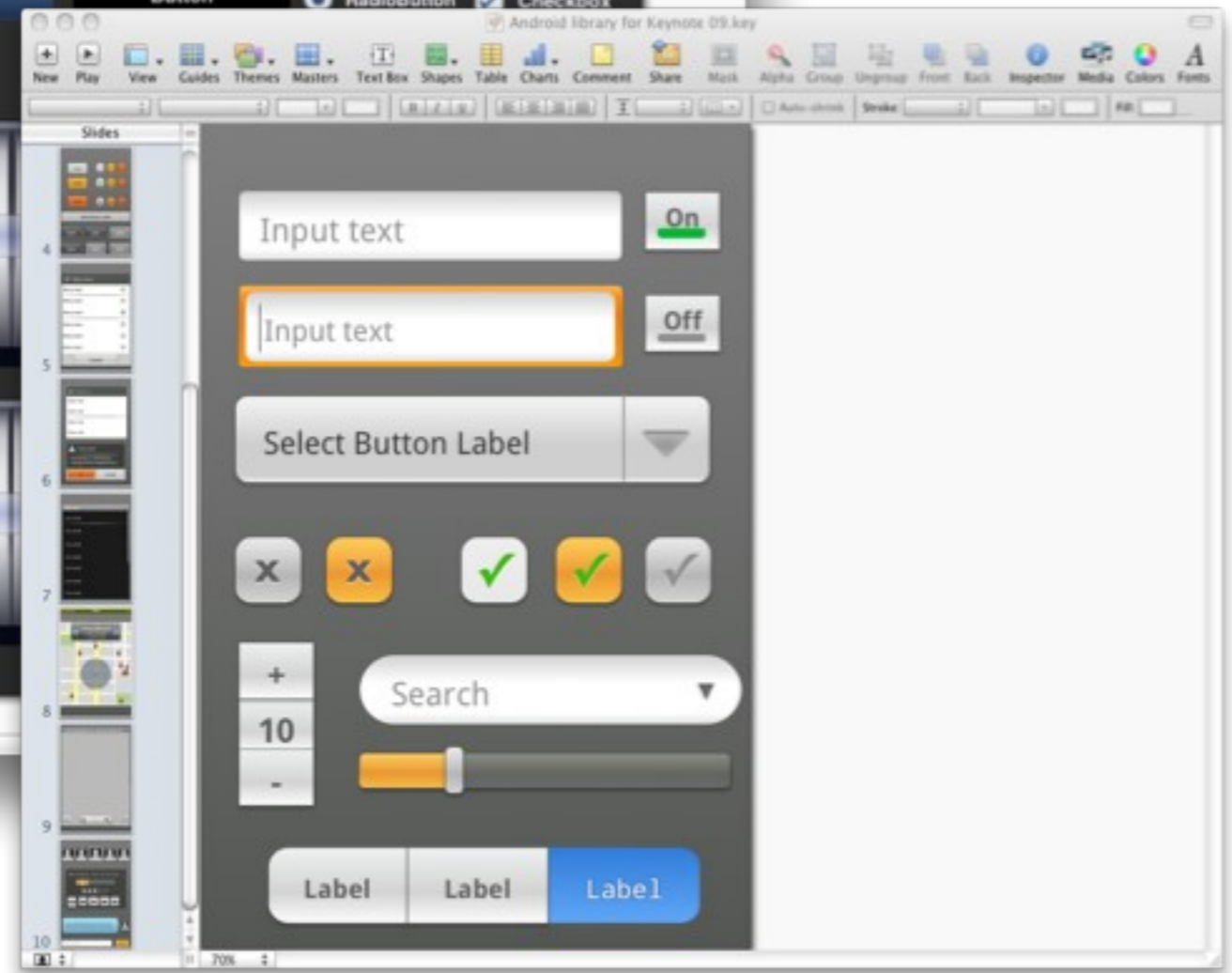
- 1** LOAD LIBRARIES
- 2** BUILD WIREFRAMES
- 3** ADD INTERACTIVITY
- 4** SHARE PROTOTYPE

Keynote / Powerpoint: Load libraries

Keynotopia

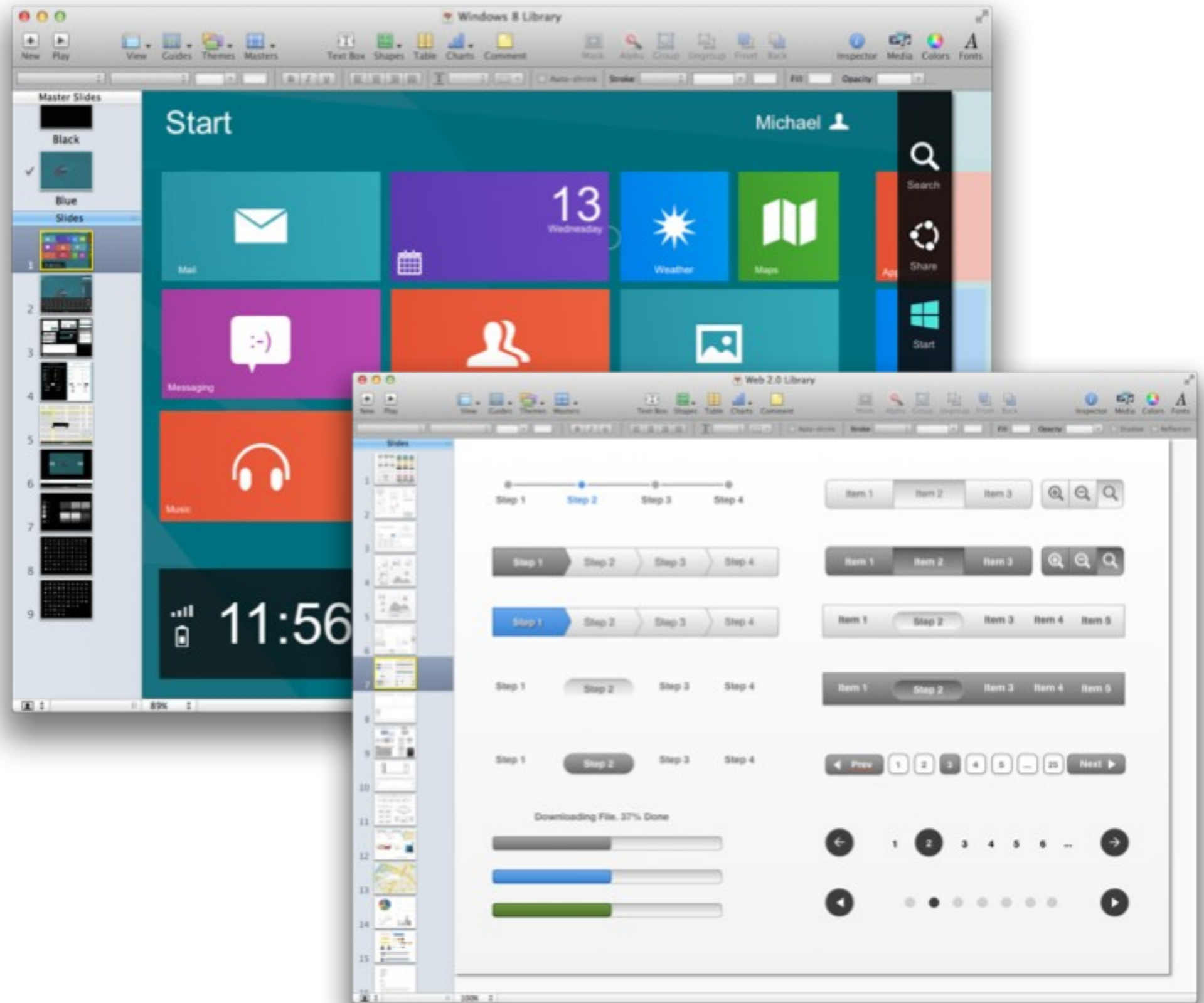
<http://keynotopia.com/>

\$97 bundle, single user



Wireframes + Prototypes

Keynote / Powerpoint: Load libraries



Keynotopia

<http://keynotopia.com/>

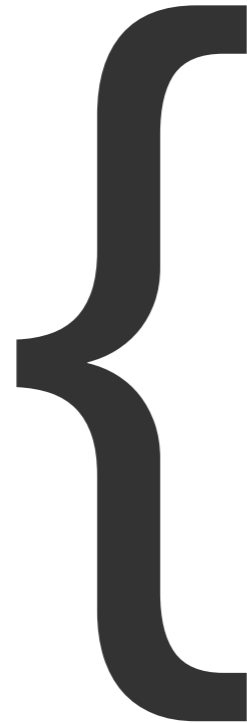
\$97 bundle, single user

Keynote / Powerpoint: Load libraries

Keynotopia

<http://keynotopia.com/>

\$97 bundle, single user



- Android
- BlackBerry
- Facebook
- iPad
- iPhone
- Twitter Bootstrap
- OS X
- Web
- Windows Phone
- Windows 7, 8
- Microsoft Office

Keynote / Powerpoint:

- 1 LOAD LIBRARIES
- 2 BUILD WIREFRAMES
- 3 ADD INTERACTIVITY
- 4 SHARE PROTOTYPE

Keynote / Powerpoint: Build wireframes



The screenshot shows the Keynote application interface. The 'File' menu is open, displaying options such as 'New', 'Open...', 'Save', and 'Save Theme...'. The 'Save Theme...' option is highlighted. The background shows a slide with the text 'iPhone (On Device)' and a vertical ruler on the left side.

Step 2:
Drag the Master Slides drawer open to show the templates

Step 1:
Install this file as a theme by clicking File » Save Theme

Keynote / Powerpoint: Build wireframes

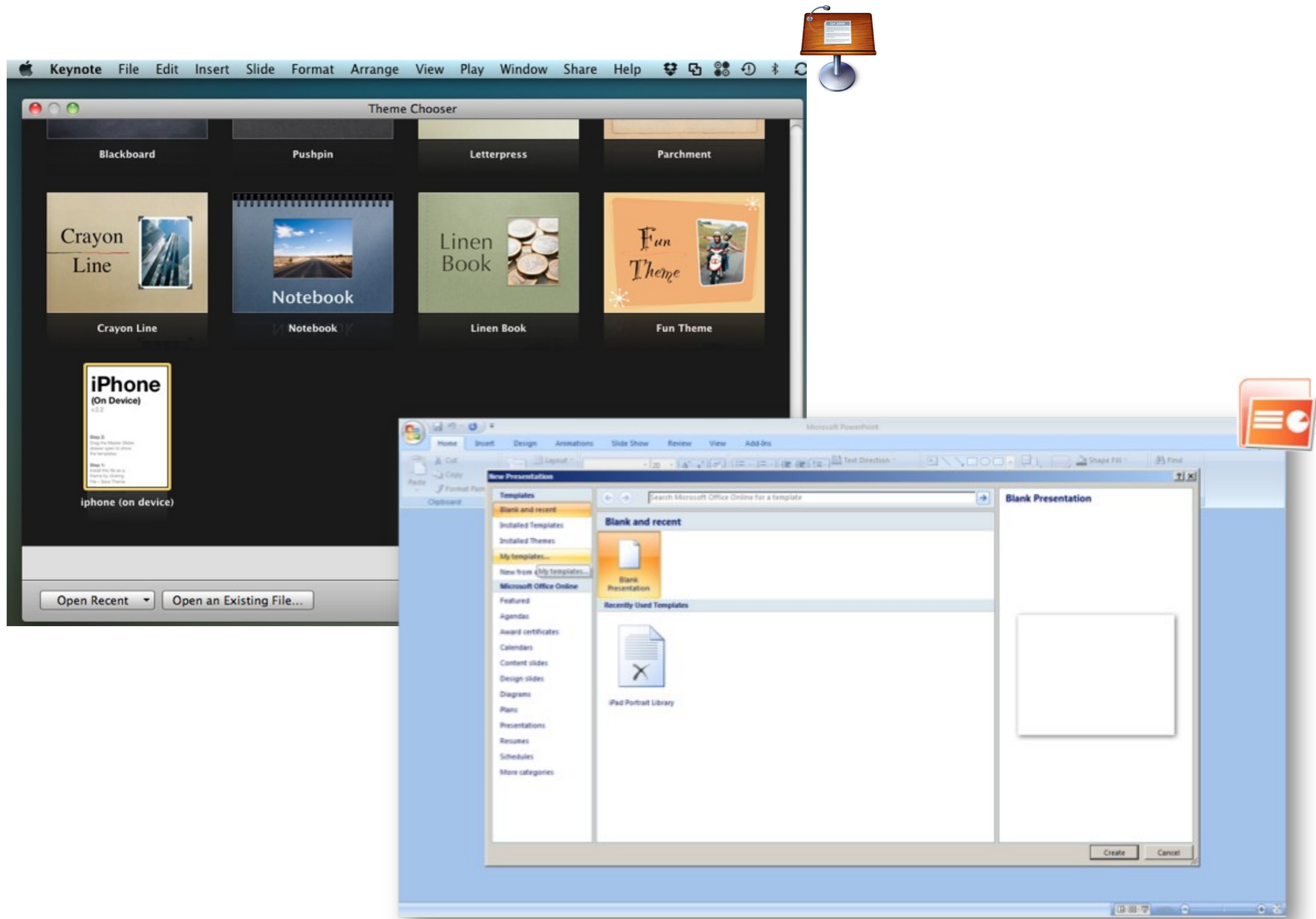


The image shows a Microsoft PowerPoint window titled 'Presentation1 - Microsoft PowerPoint'. The main slide area contains a large white box with the text 'Click to add title'. The ribbon at the top includes 'Paragraph', 'Drawing', and 'Editing' tabs. A 'Save As' dialog box is open in the foreground, showing the 'Documents' folder. The dialog box has a table of files and folders:

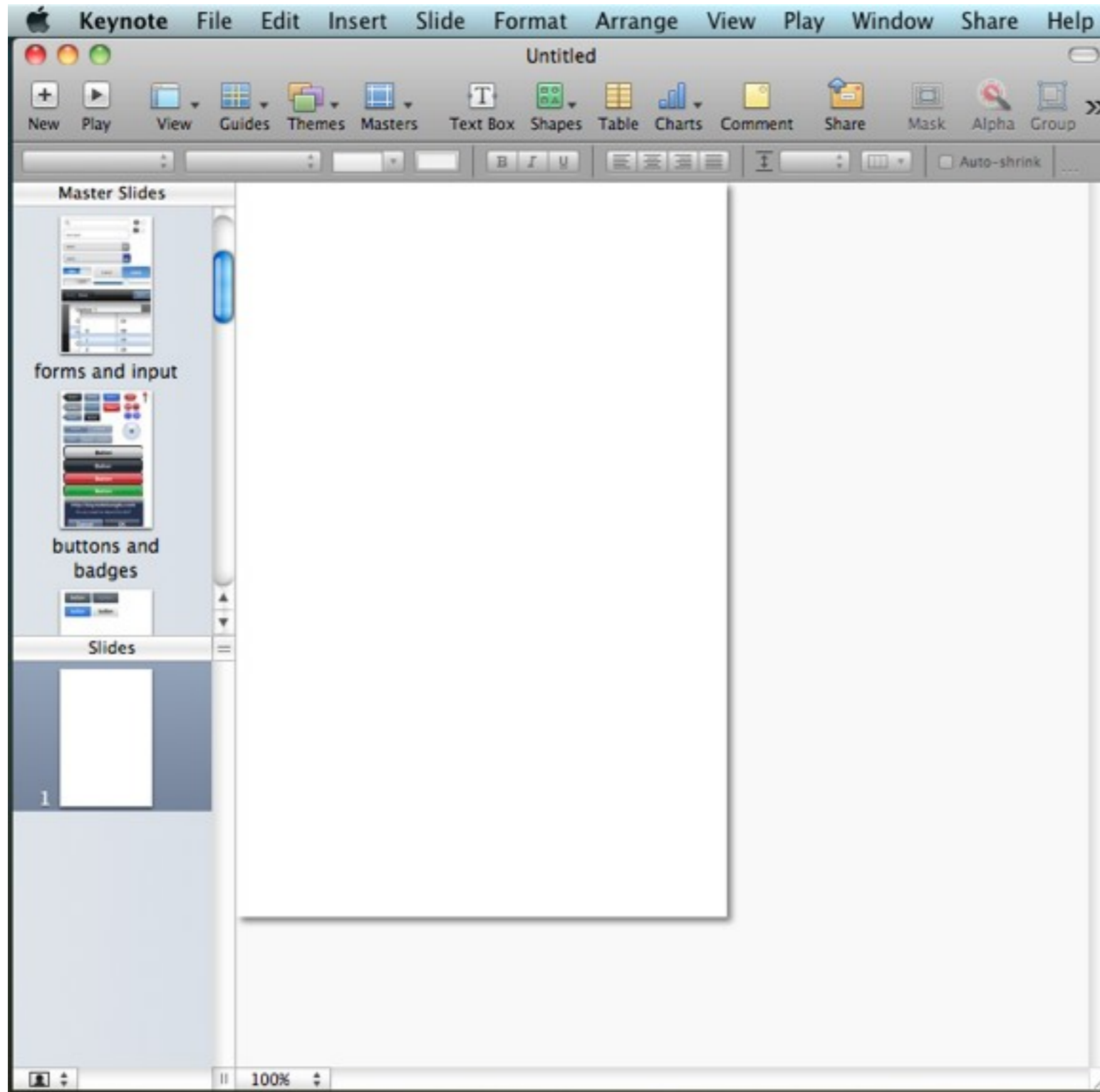
Nom	Modifié le	Type
Adobe PDF 6.0	09/11/2010 4:26 PM	Dossier de fichiers
Bluetooth Exchange Folder	21/10/2010 9:08 AM	Dossier de fichiers
Catalogue Snagit	17/11/2010 11:53 AM	Dossier de fichiers
microsoft	18/10/2010 6:37 AM	Dossier de fichiers
Morac	10/01/2013 10:45 AM	Dossier de fichiers
sun	01/06/2012 1:41 PM	Dossier de fichiers

The 'Save as type' dropdown menu is open, showing various file formats such as 'PowerPoint Presentation', 'PowerPoint Macro-Enabled Presentation', 'PDF', 'PowerPoint Template', etc. A white arrow points from the 'Save As' button in the top-left corner of the PowerPoint window to the 'Save As' dialog box. The status bar at the bottom of the PowerPoint window shows 'Slide 1 of 1', 'Office Theme', and 'French (Canada)'. The 'Save As' dialog box also shows 'File name: Presentation1' and 'Save as type: PowerPoint Presentation'.

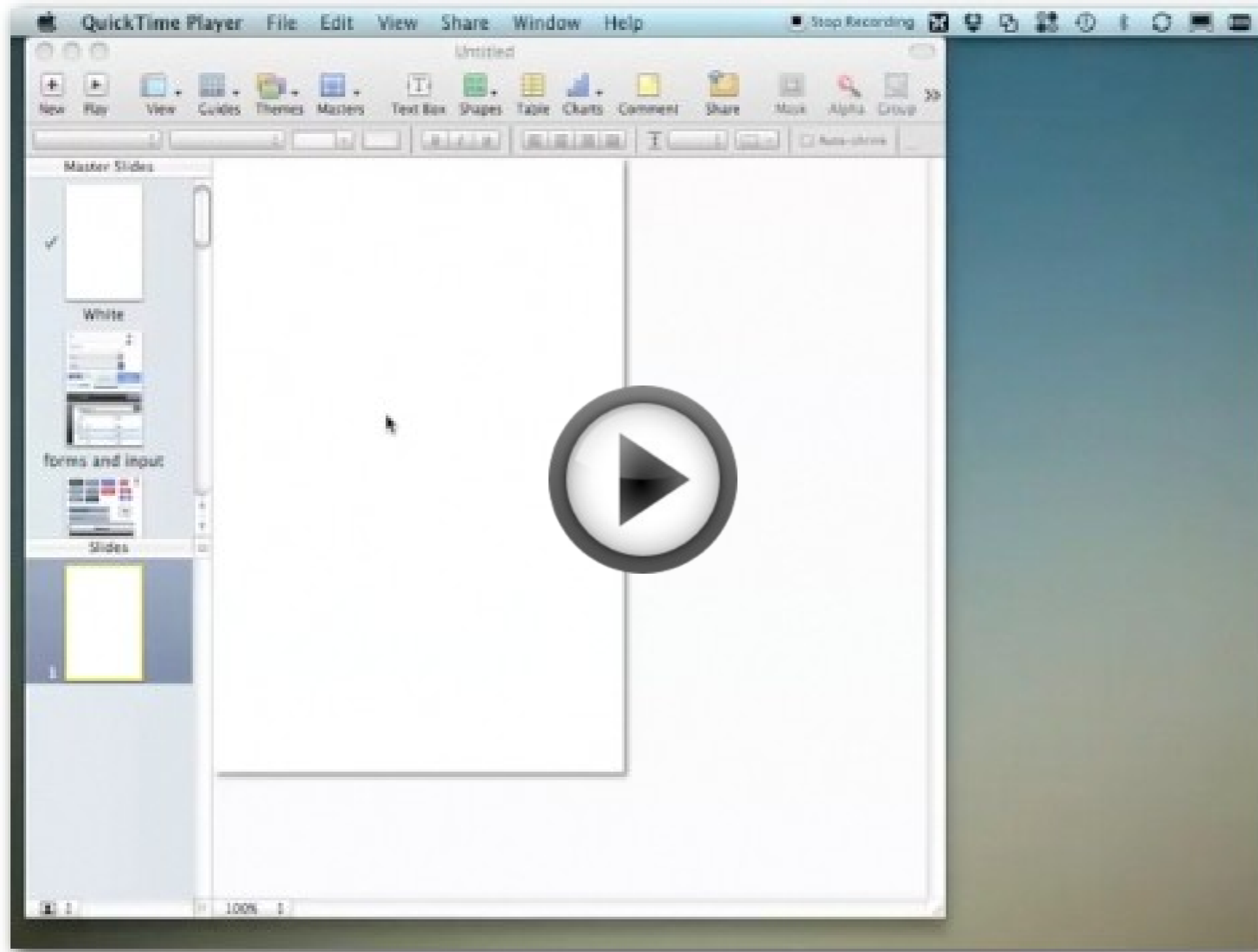
Keynote / Powerpoint: Build wireframes



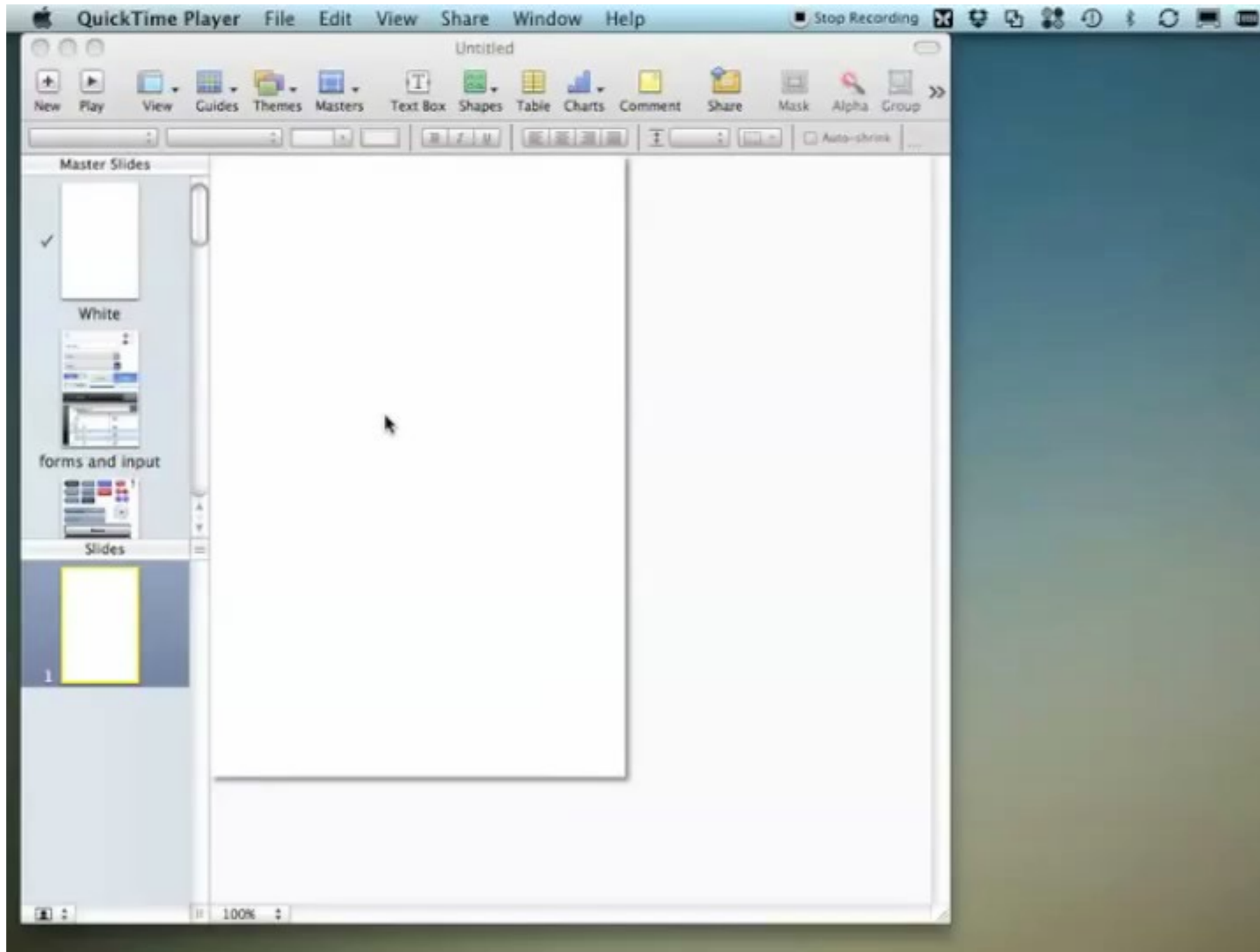
Keynote / Powerpoint: Build wireframes



Keynote / Powerpoint: Build wireframes



Keynote / Powerpoint: Build wireframes

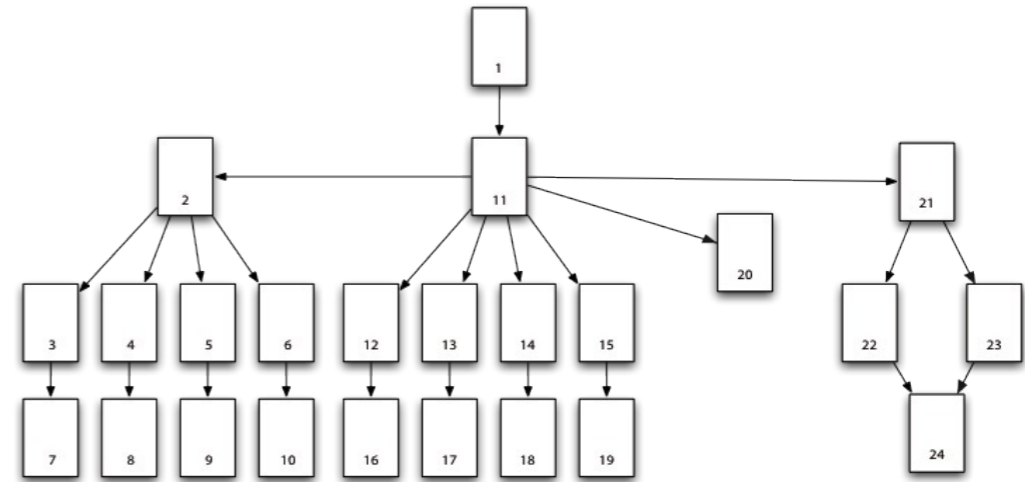


Keynote / Powerpoint:

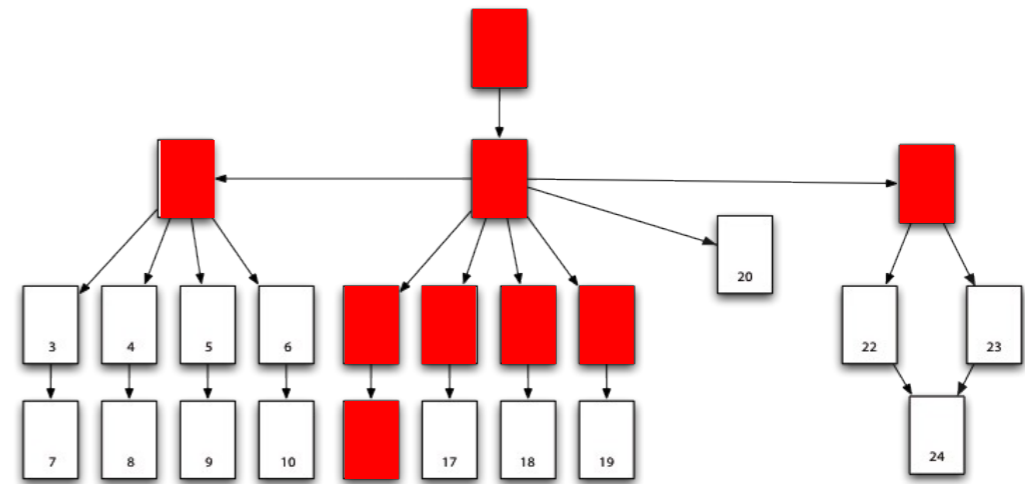
- 1 LOAD LIBRARIES
- 2 BUILD WIREFRAMES
- 3 ADD INTERACTIVITY
- 4 SHARE PROTOTYPE

Keynote / Powerpoint: Add interactivity

Remember the flow?



Define your scenario



Keynote / Powerpoint: Add interactivity



The screenshot shows the Keynote application window titled "Prototype Keynote.key". The top toolbar includes icons for New, Play, View, Guides, Themes, Masters, Text Box, Shapes, Table, Charts, Comment, Share, Mask, Alpha, and Group. Below the toolbar is a text formatting bar with "Helvetica Neue", "Bold", "16", and buttons for Bold, Italic, Underline, and alignment options. The main workspace displays a prototype of an app interface with a status bar at the top showing "CARRIER 3G" and "10:00 AM". The app interface includes a header "App Name", two input fields labeled "Username" and "Password" with placeholder text "Enter your username" and "Enter your password", and a "Sign In" button with a blue arrow icon. A virtual keyboard is overlaid at the bottom of the workspace. On the left side, there is a "Master Slides" panel with a "White" master slide and a "Slides" panel showing a sequence of slides, with the first slide selected.

The screenshot shows the "Hyperlink" settings panel. It has a toolbar with icons for document, link, text, shape, ruler, table, chart, and refresh. The panel includes a checked checkbox "Enable as a hyperlink". Below it is a "Link To:" dropdown menu set to "Slide". A list of radio button options follows: "Next slide" (selected), "Previous slide", "First slide", "Last slide", "Last slide viewed", and "Slide" with a dropdown arrow. A hand-drawn arrow points from the "Next slide" option back to the main Keynote window.

Keynote / Powerpoint: Add interactivity



Keynote / Powerpoint: Add interactivity

The image shows a Microsoft PowerPoint window in Compatibility Mode. The title bar reads "Wireframes UXM [Compatibility Mode] - Microsoft PowerPoint". The ribbon includes tabs for Home, Insert, Design, Animations, Slide Show, Review, View, Add-Ins, and Format. The "Action" button in the "Links" group is highlighted with a hand cursor. A hand-drawn arrow points from the "Action" button to the "Action Settings" dialog box.

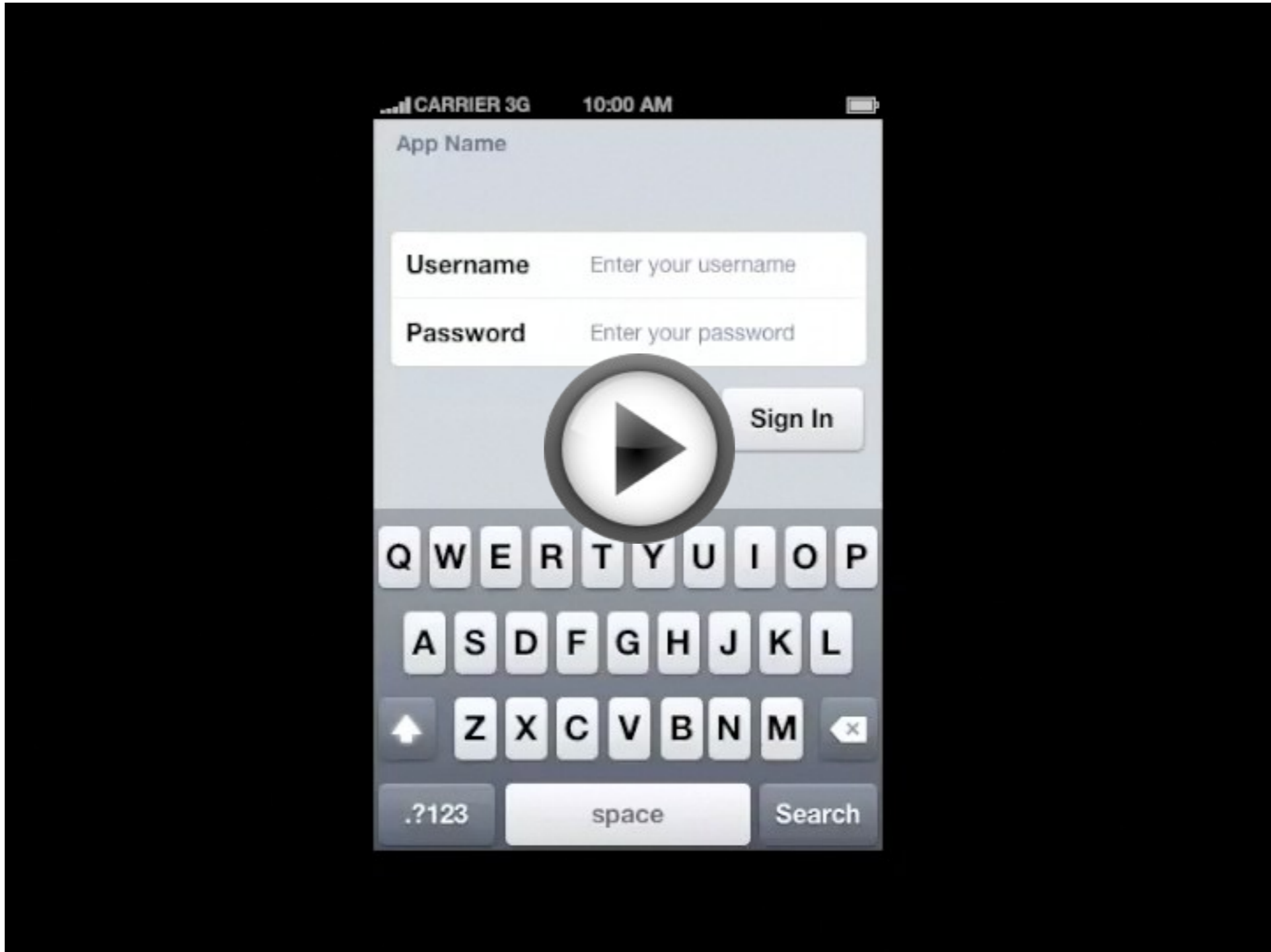
The main slide area displays a wireframe of a login form with the following elements:

- Username field: "Username enter your username"
- Password field: "Password enter your password"
- Sign-in button: "Sign-in"
- Keyboard layout: A full QWERTY keyboard is shown below the sign-in button.

The "Action Settings" dialog box is open, showing the "Action on click" section. The "Hyperlink to:" option is selected, and "Next Slide" is chosen from the dropdown menu. Other options include "None", "Next Slide", "Previous Slide", "First Slide", "Last Slide", "Last Slide Viewed", and "End Show". There are also checkboxes for "Play sound:" (set to "[No Sound]") and "Highlight click".

At the bottom of the PowerPoint window, the status bar shows "Slide 1 of 4", "iPhone Master", "French (Canada)", and a zoom level of 71%.

Keynote / Powerpoint: Add interactivity



Keynote / Powerpoint: Add interactivity

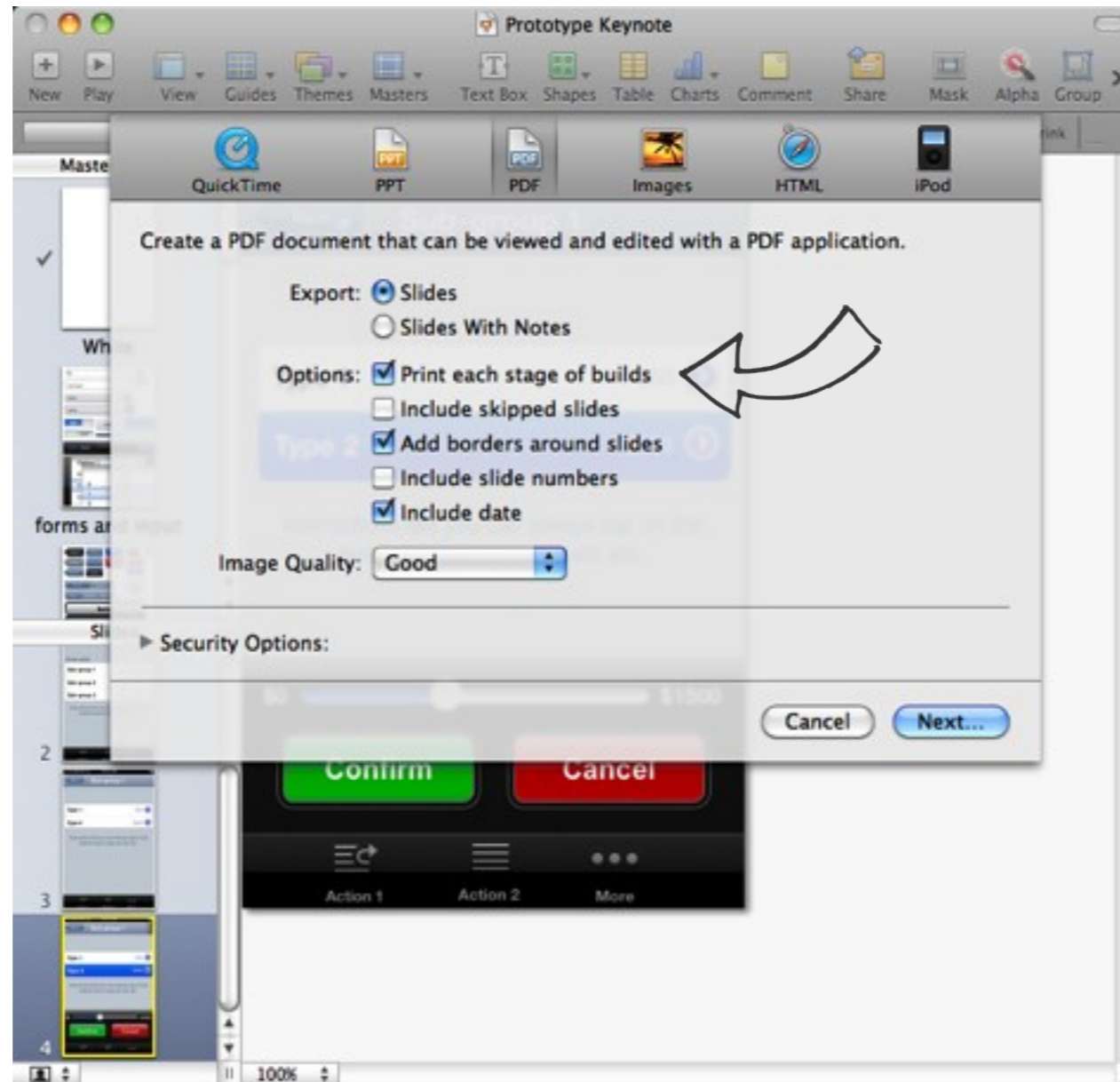


**Test your prototype...
...and adjust, if needed**

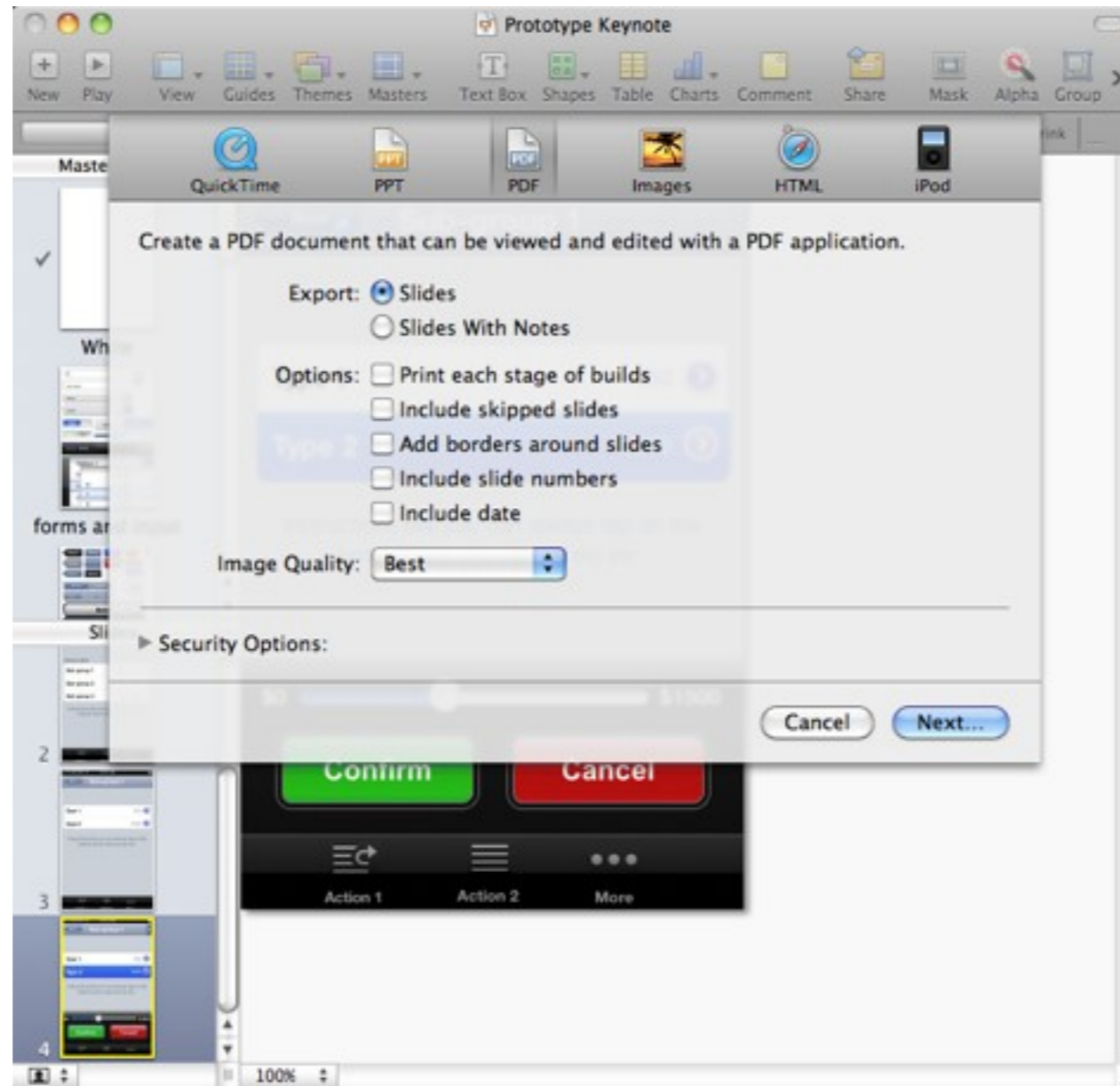
Keynote / Powerpoint:

- 1** LOAD LIBRARIES
- 2** BUILD WIREFRAMES
- 3** ADD INTERACTIVITY
- 4** SHARE PROTOTYPE

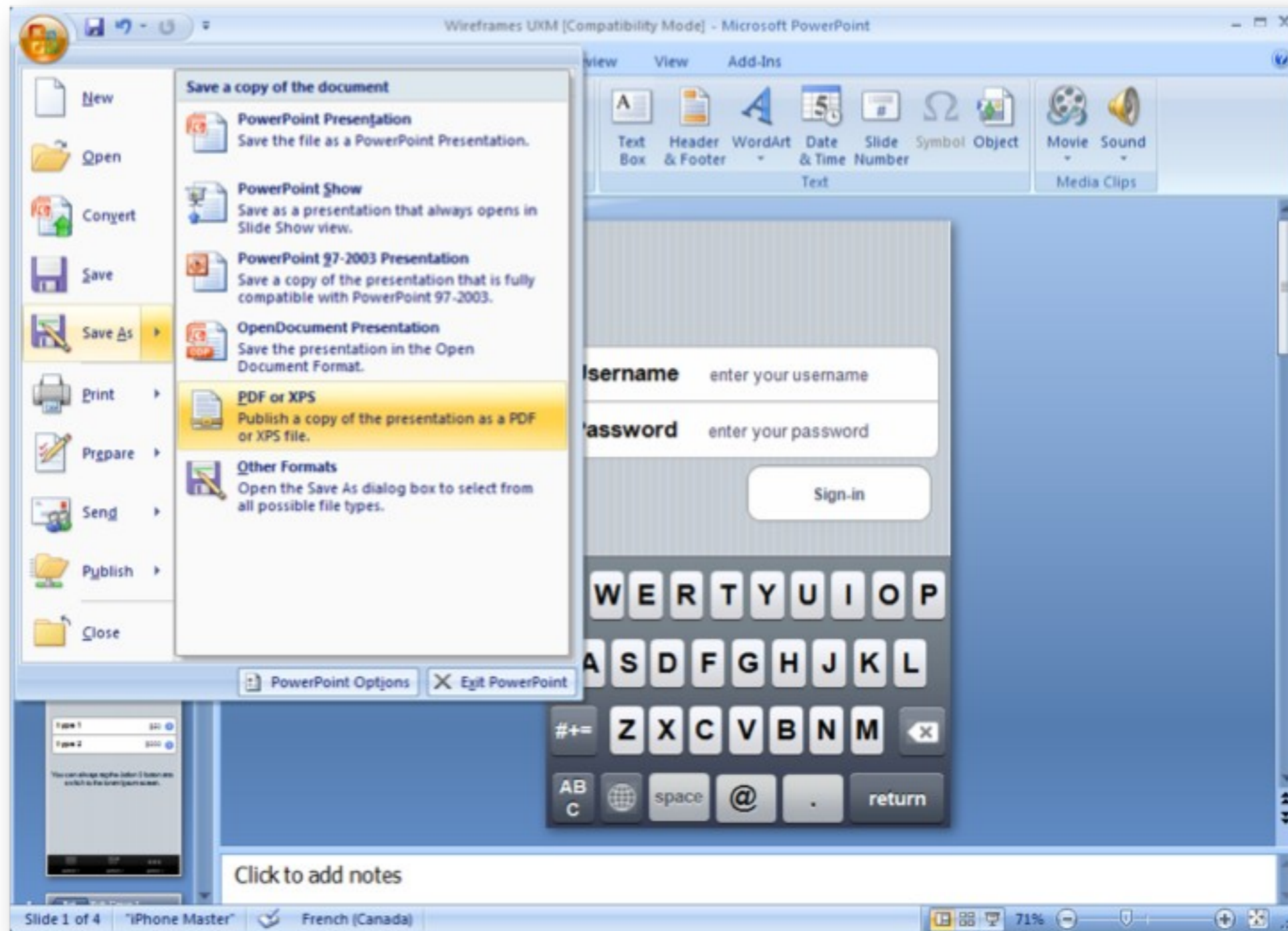
Keynote / Powerpoint: Share prototype



Keynote / Powerpoint: Share prototype



Keynote / Powerpoint: Share prototype



Recommended software for testing PDF prototypes

For PCs

Adobe Acrobat Reader



For iOS

Good Reader

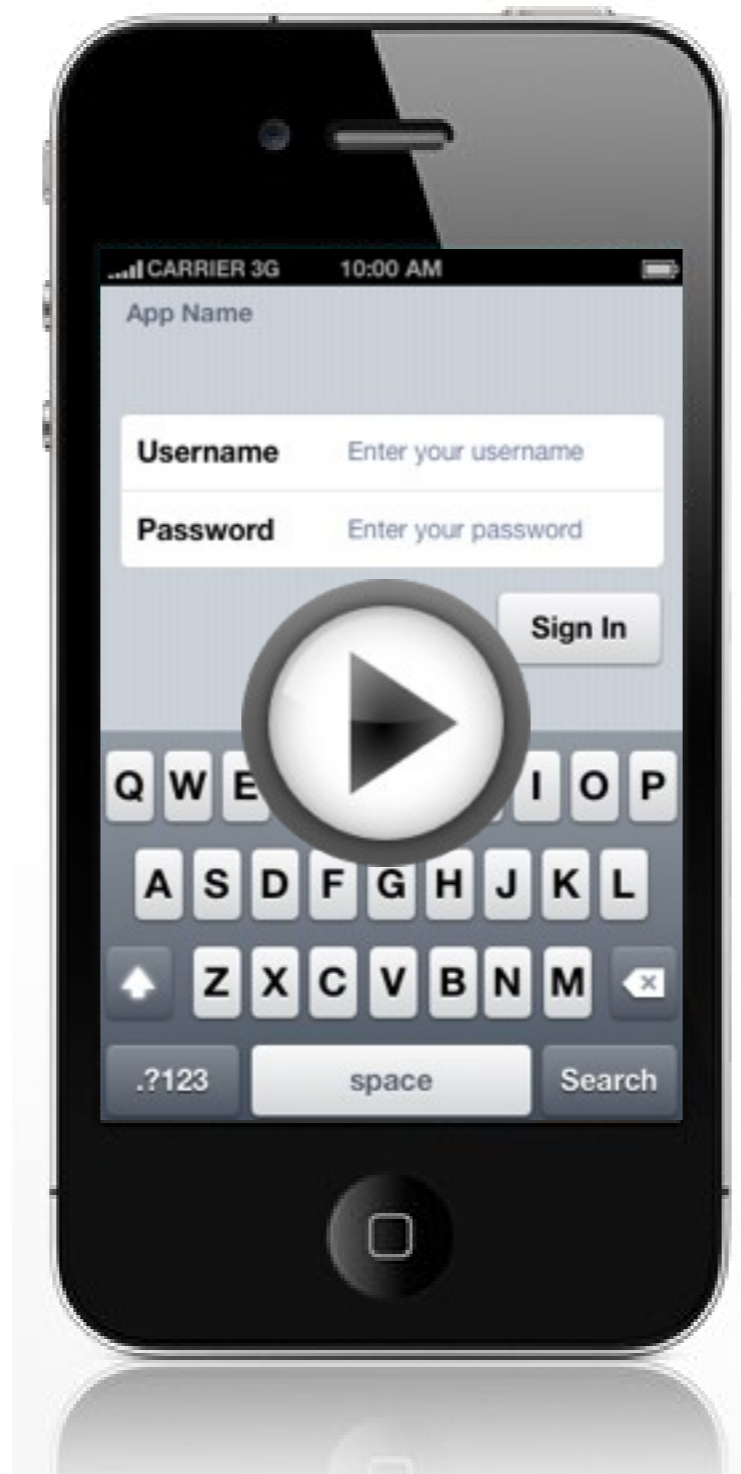


For Android

ezPDF



Keynote / Powerpoint: Share prototype



Keynote / Powerpoint: Share prototype



Wireframes + Prototypes

Keynote / Powerpoint



PROS AND CONS

PROS

- Very easy to learn
- Cheap (Keynote)
- Everyone has it (PowerPoint)

CONS

- Harder to distribute mobile compatible versions
- Limited interactivity
- Keynote is Mac only, PowerPoint for Mac is not reliable



PROTOTYPE #1



Validate the client's idea
(did we get it right?)

PROTOTYPE #2



Validate our design decisions
(usability, mental model)

PROTOTYPE #3



Give clear specifications
to developers





PROTOTYPE #1



Validate the client's idea
(did we get it right?)

PROTOTYPE #2



Validate our design decisions
(usability, mental model)

PROTOTYPE #3



Give clear specifications
to developers



Wireframes + Prototypes

AXURE RP PRO



RAPID PROTOTYPING



Wireframes + Prototypes Axure RP Pro

The screenshot displays the Axure RP Pro 5.6 software interface. The main window is titled "Welcome to Axure RP Pro" and is licensed to Yu Centrik Inc. The interface includes a top toolbar with icons for Selection Mode, Zoom (set to 100%), Prototype, Specification, Generators, Group, Ungroup, Front, Back, Align, Distribute, Left, and Right. A Sitemap panel on the left shows a project structure with "Home" and three sub-pages: "Page 1", "Page 2", and "Page 3". A Widgets panel below the Sitemap lists various UI elements: Image, Text Panel, Hyperlink, Rectangle, Placeholder, Button, Table, Text Field, and Text Area. A Dynamic Panel Manager panel on the right shows a "Home" panel. The central workspace displays a "Welcome to Axure RP Pro" dialog box with the following content:

- Header: "Welcome to Axure RP Pro"
- Contact: "Send questions and requests to support@axure.com. We'd love to hear from you!" with the Axure logo.
- Left Column:
 - Online Tutorials** ▶: "Become an Axure Fu Master in no time through this series of articles, videos, and samples."
 - Video Tutorials** ▶: "Watch these videos to see beginner and advanced features of Axure RP in action."
- Right Column:
 - Open a Recent Item**: A list of recent items including "iPhone-UI.rplib", "iPhone-Horizontal.rplib", "iPhone-Bodies.rplib", "Yu Centrik - CIHI wireframes final.rplib", and "Open...".
 - Create New**: A button to create a new "RP Document".
- Footer: "Version 5.6.0.2693", "WELCOME TO AXURE RP PRO", "Licensed to Yu Centrik Inc.", and a logo featuring a green leaf and a blue cube.
- Buttons: "Enter License Key" and "Close".
- Checkbox: "Don't show on startup" (checked).

At the bottom of the software interface, there are tabs for "Page Notes" and "Page Interactions", and a "Default" dropdown menu with a "Manage Notes..." link.

Wireframes + Prototypes Axure RP Pro

The image shows the Axure RP Pro 5.6 software interface. At the top, a window titled "Welcome to Axure RP Pro" is open, displaying a license key entry field and a "Close" button. The main workspace shows a wireframe of a web page with a sidebar and a main content area. The sidebar contains sections for "Online Tutorials" and "Video Tutorials". The main content area has a "Welcome to Axure RP Pro" message and a list of recent items. The interface includes several panels: "Sitemap" on the left, "Widget Properties" on the right, and "Page Notes" and "Page Interactions" at the bottom. Five red circles with numbers 1 through 5 are overlaid on the interface, highlighting specific features: 1. The top toolbar, 2. The Sitemap panel, 3. The Widgets panel, 4. The Widget Properties panel, and 5. The Page Interactions panel.

1

2

3

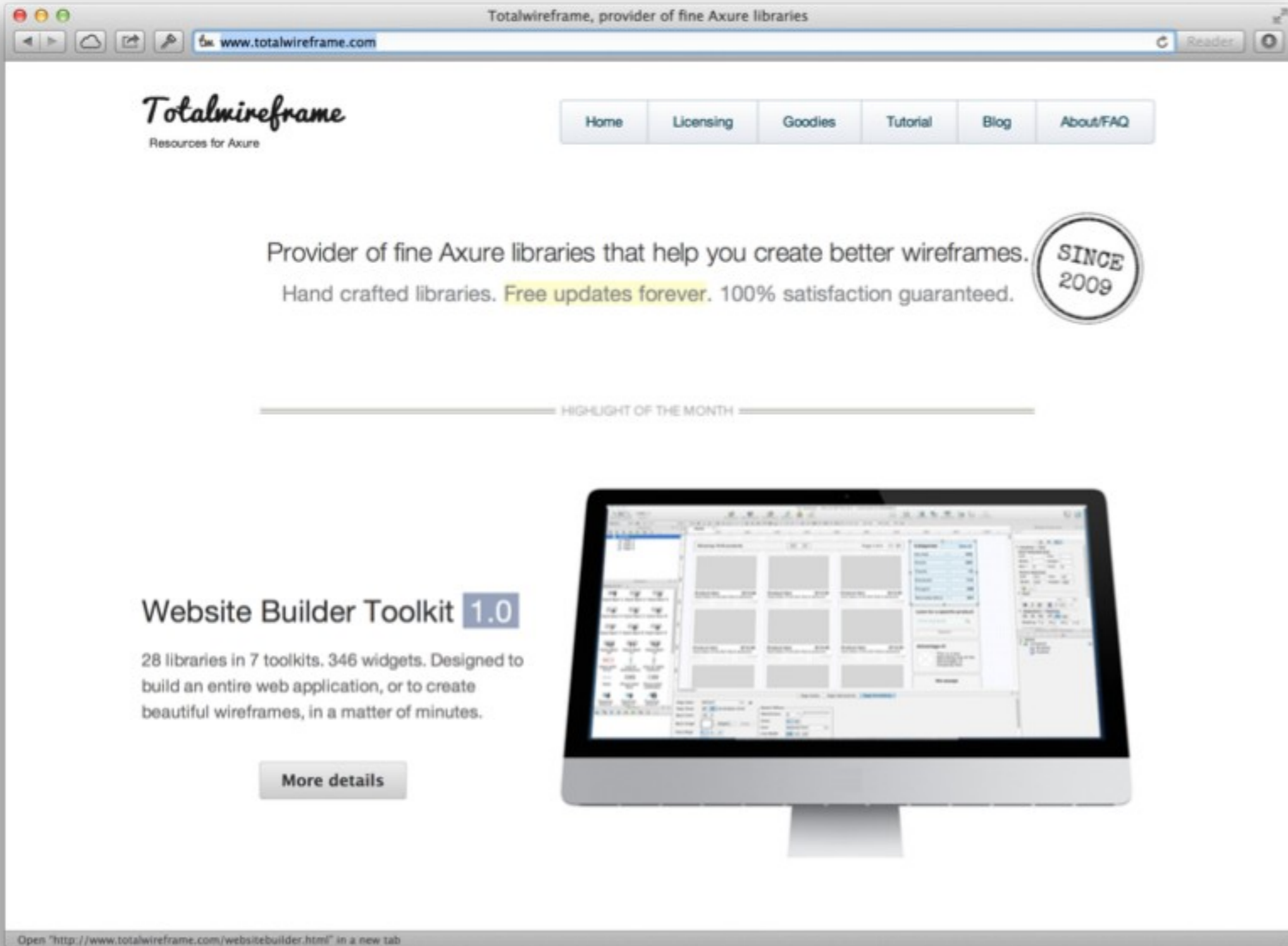
4

5

Axure RP Pro:

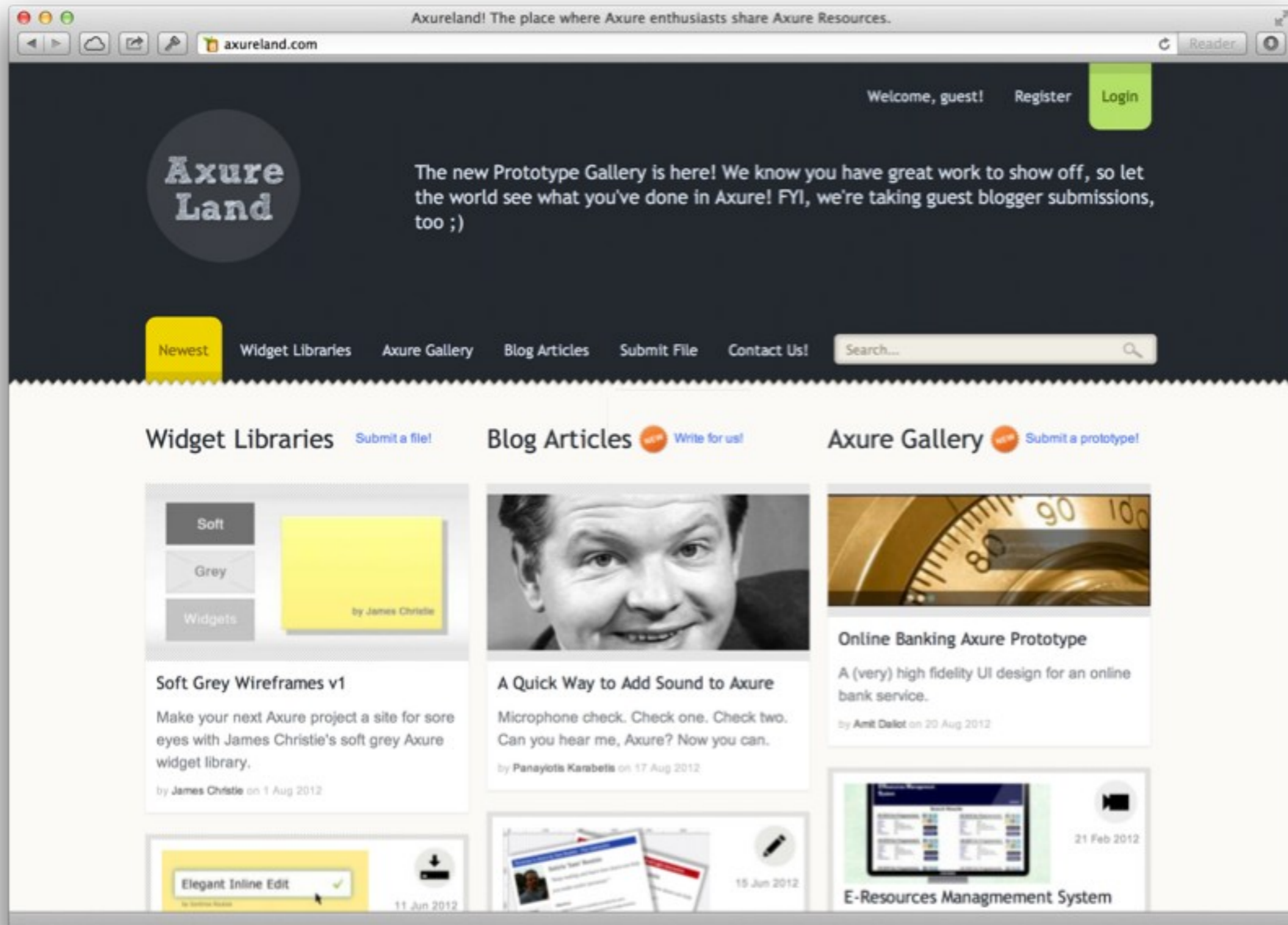
- 1** **LOAD LIBRARIES**
- 2** **BUILD WIREFRAMES**
- 3** **ADD INTERACTIVITY**
- 4** **SHARE PROTOTYPE**

Axure RP Pro: Load libraries



Wireframes + Prototypes

Axure RP Pro: Load libraries



Wireframes + Prototypes

Axure RP Pro: Load libraries

Download Widget Libraries | Axure

www.axure.com/download-widget-libraries

AxShare | Forum | Manage Licenses

axure

HOME PRODUCTS WHY AXURE LEARN SUPPORT COMPANY DOWNLOAD BUY

Training Videos Tutorials Forum **Widget Libraries**

Download Axure and Community Widget Libraries

Download widget libraries (.rplib) created by Axure and the community. For more on custom widget libraries including how to load and create your own libraries, head to the [Custom Widget Libraries](#) article.

Widget Library Collections

Axureland

Axureland is a place for sharing widget libraries and design patterns with the growing Axure community. You can register for an account, customize your profile, and submit files for free, public display on the website.

Axutopia (\$)

Axutopia offers widget libraries for iPhone, iPad, Android, Blackberry, and more.. Libraries can be purchased individually or in a bundle with lifetime updates.

Total Wireframe Libraries (\$)

Total Wireframe offer a variety of design patterns and libraries for purchase including a email and blog templates, animation widgets, Android wireframe toolkit, Facebook wireframe toolkit, and Common Widgets toolkit.

Widget Libraries by Axure

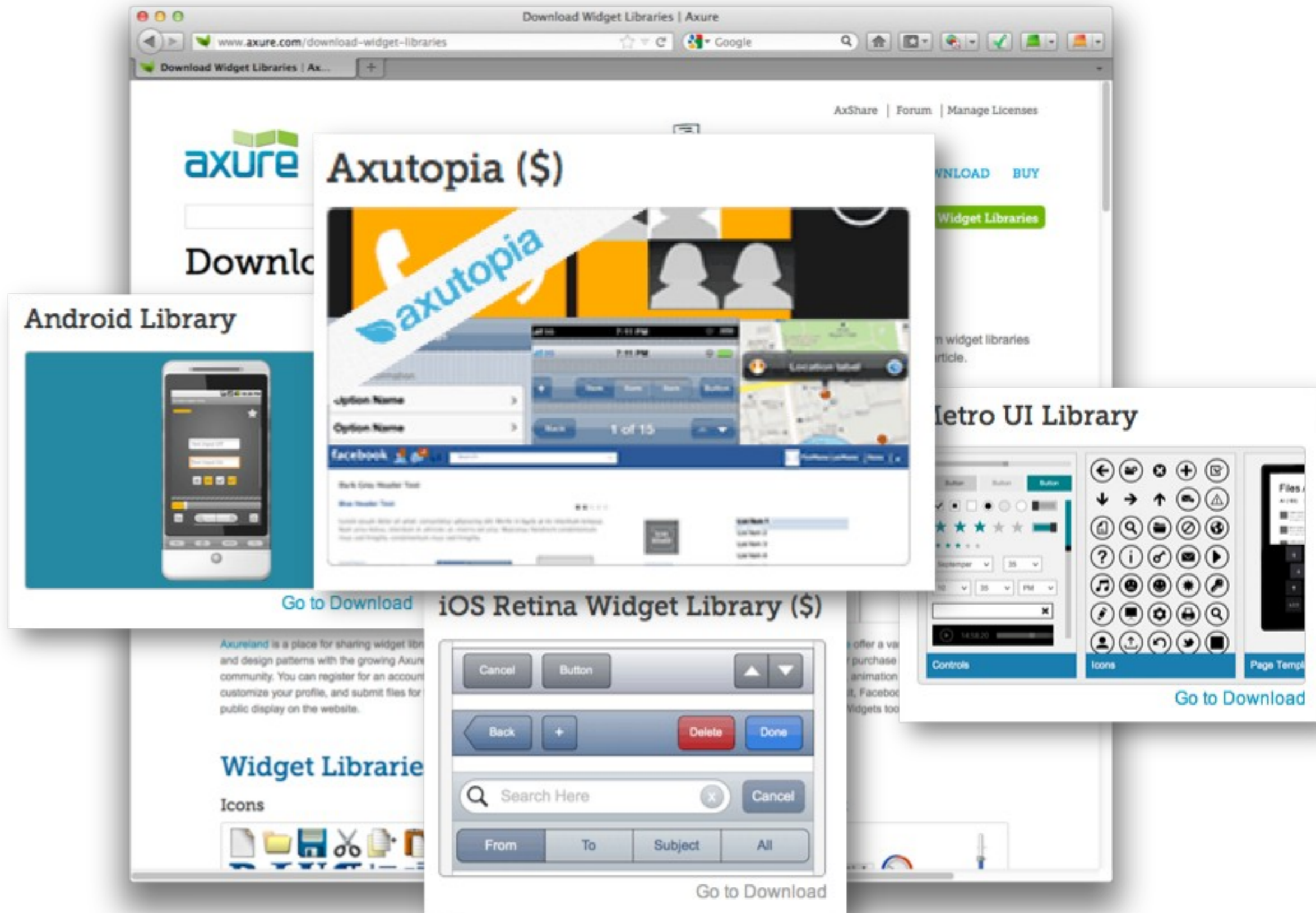
Icons

Yahoo! Design Stencil Kit

<http://www.axure.com/download-widget-libraries>

Wireframes + Prototypes

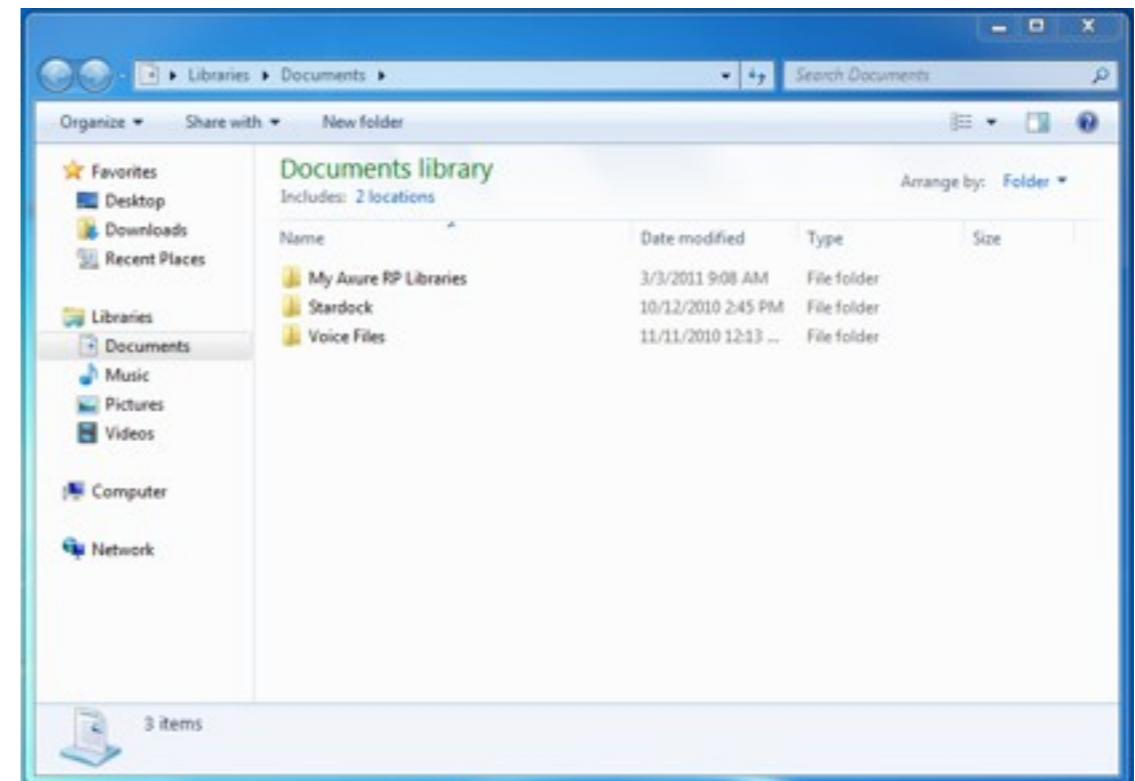
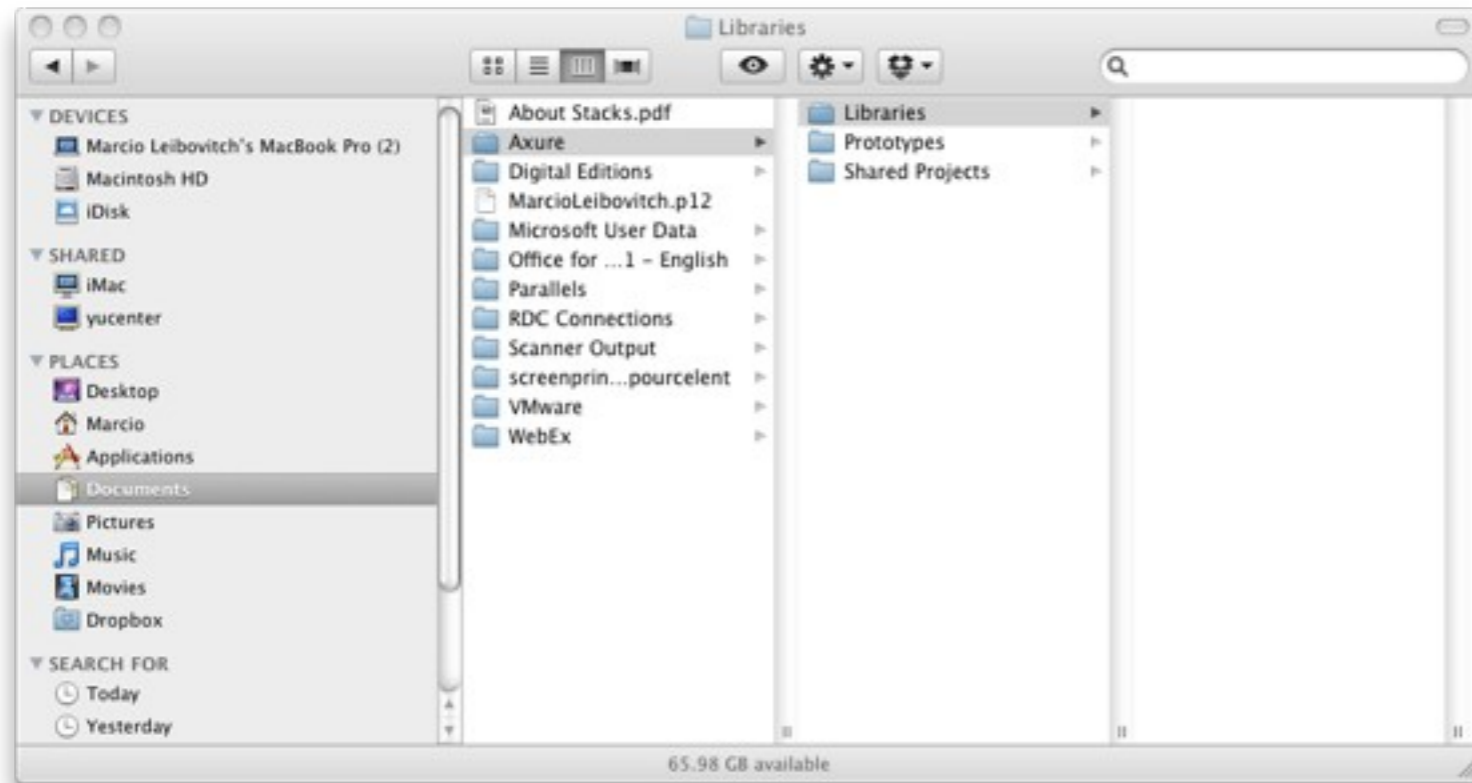
Axure RP Pro: Load libraries



<http://www.axure.com/download-widget-libraries>

Wireframes + Prototypes

Axure RP Pro: Load libraries

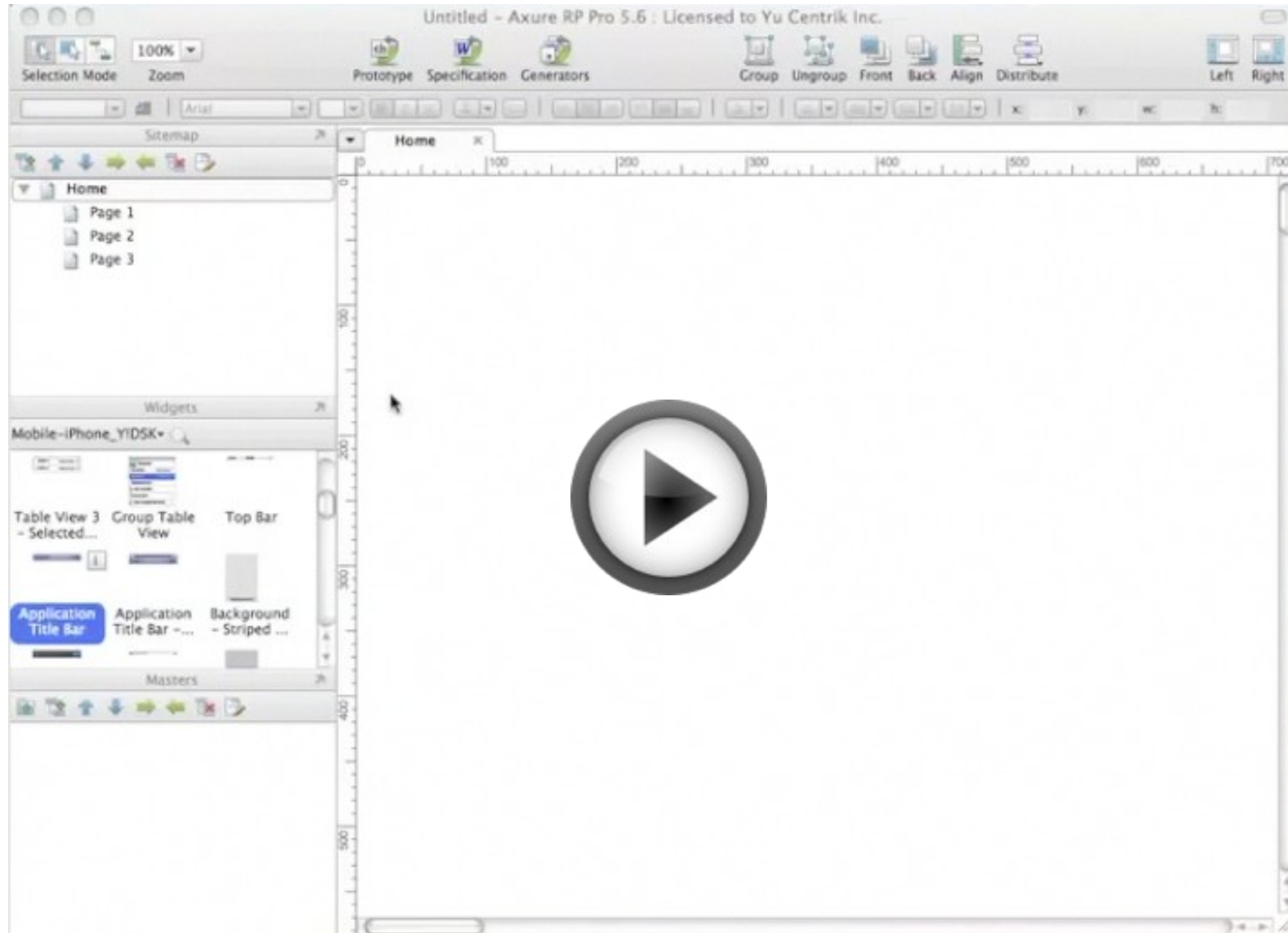


Axure RP Pro:

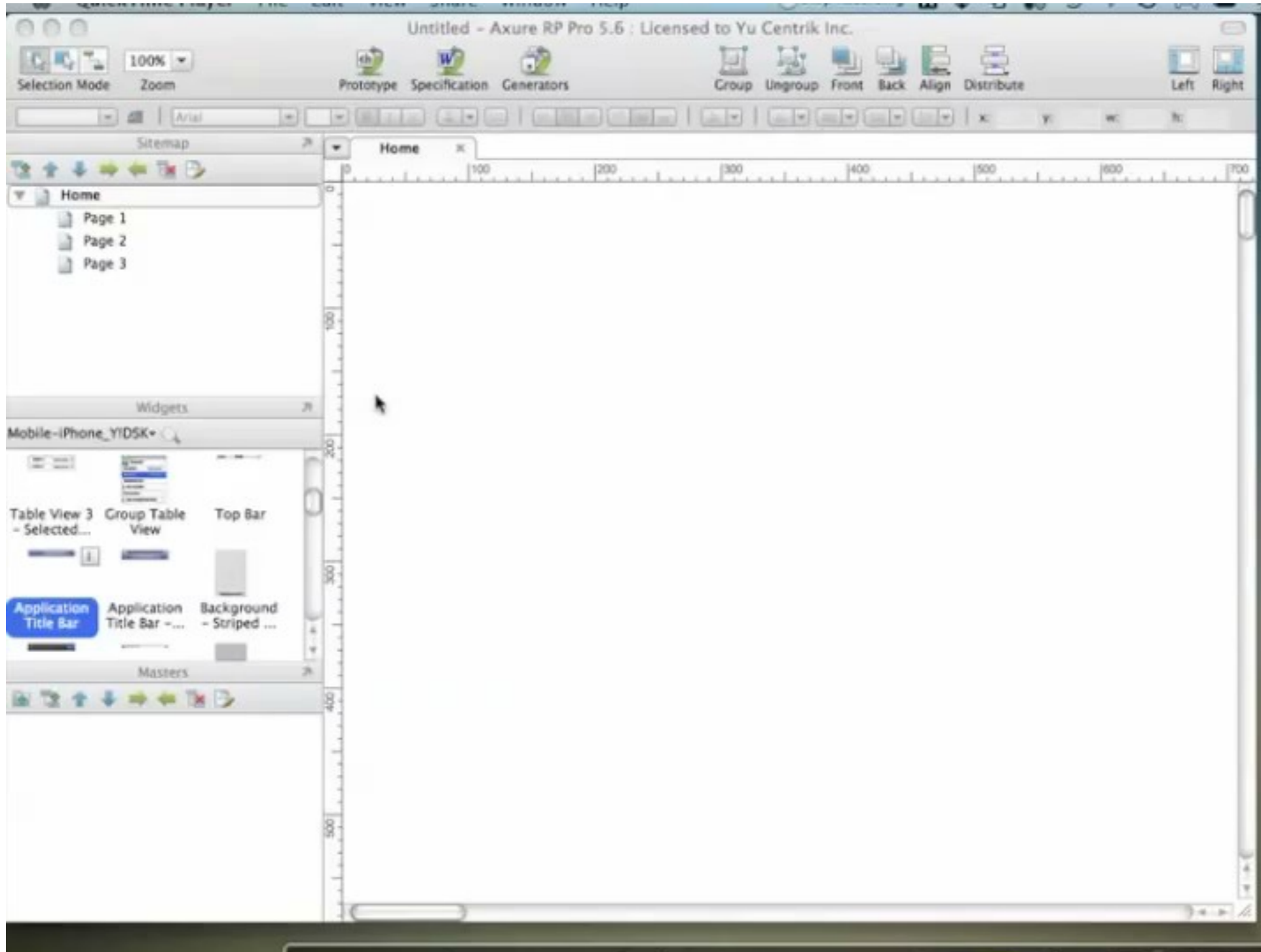
- 1 LOAD LIBRARIES
- 2 BUILD WIREFRAMES
- 3 ADD INTERACTIVITY
- 4 SHARE PROTOTYPE

Wireframes + Prototypes

Axure RP Pro: Build wireframes



Axure RP Pro: Build wireframes

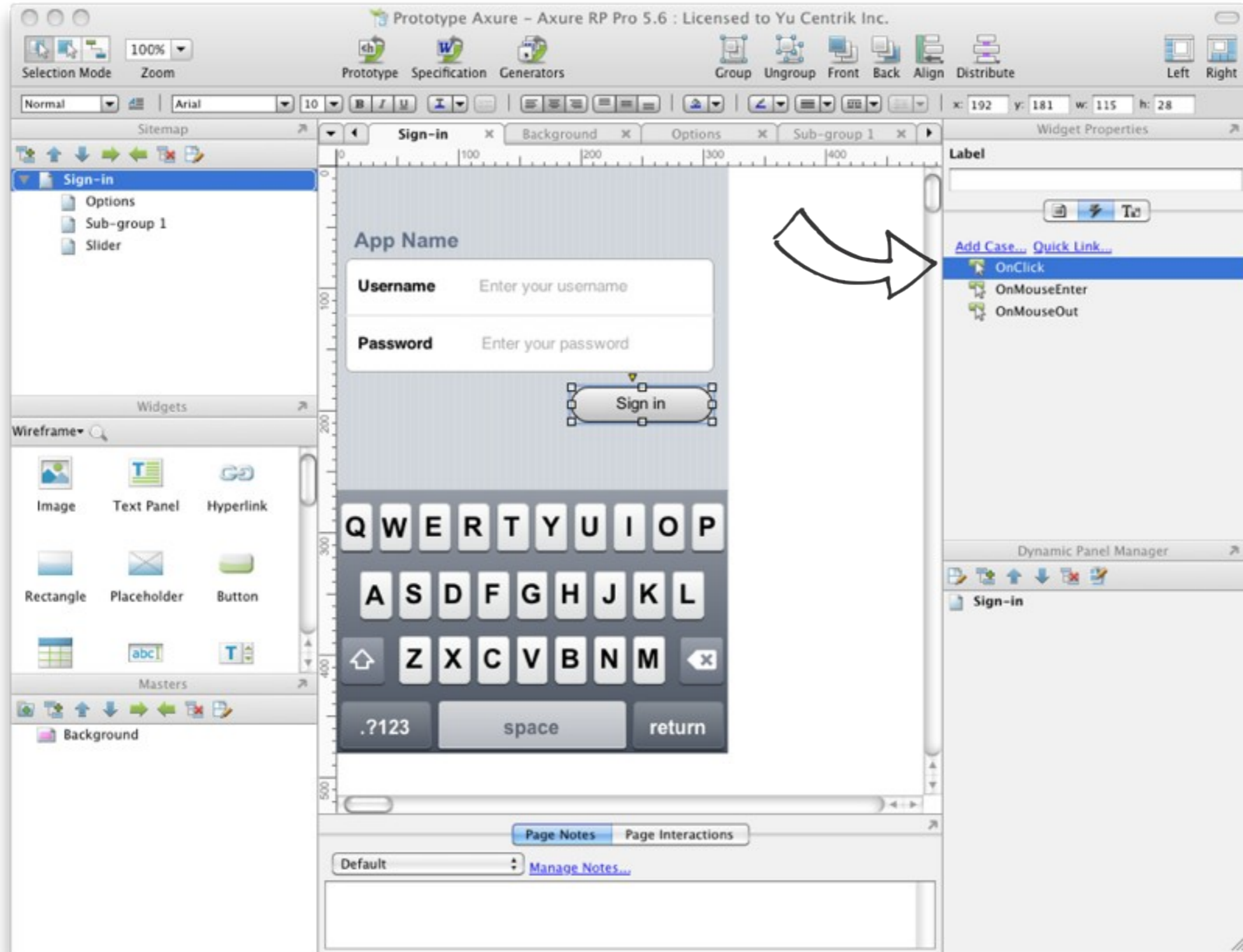


Axure RP Pro:

- 1 LOAD LIBRARIES
- 2 BUILD WIREFRAMES
- 3 ADD INTERACTIVITY
- 4 SHARE PROTOTYPE

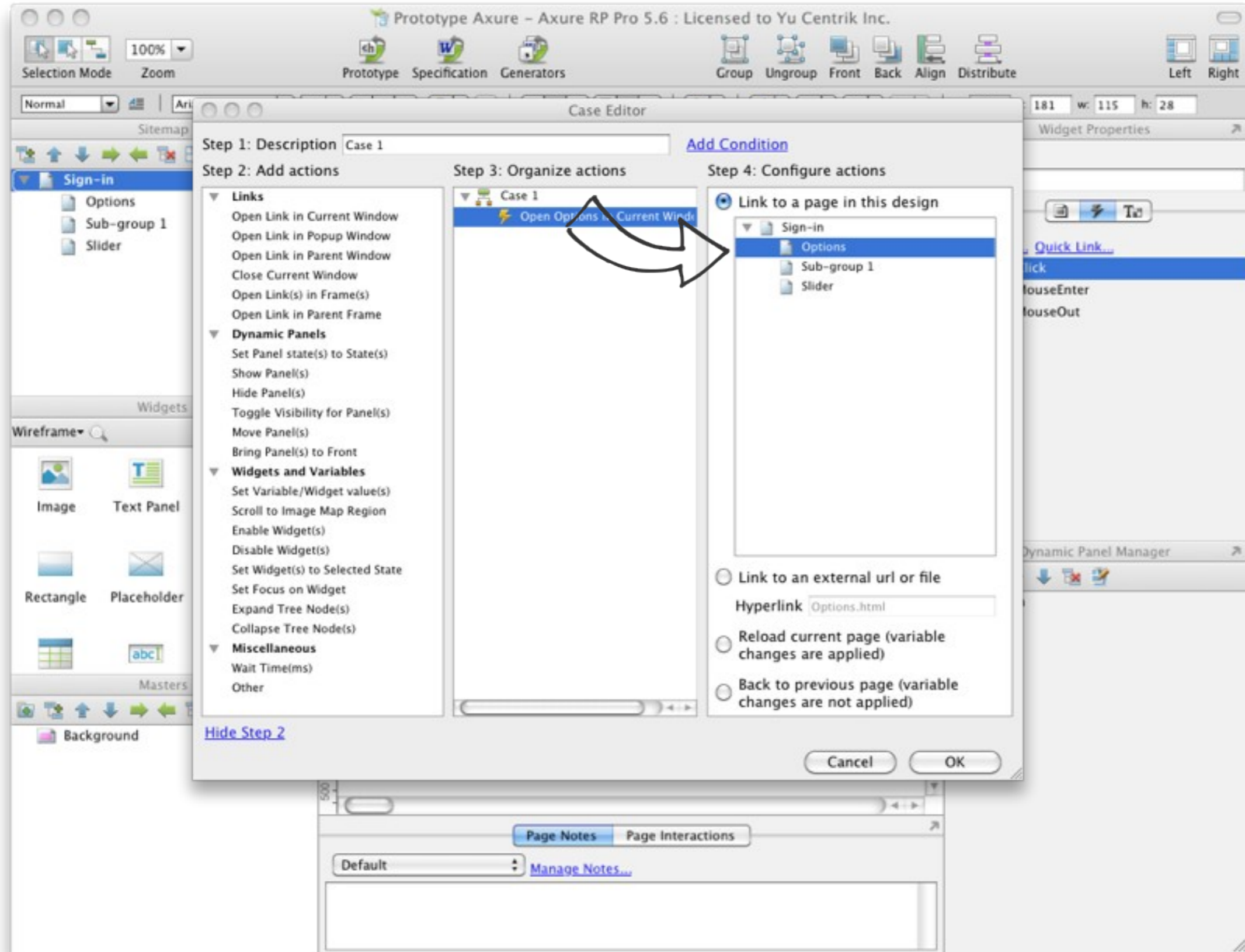
Wireframes + Prototypes

Axure RP Pro: Add interactivity



Wireframes + Prototypes

Axure RP Pro: Add interactivity



Wireframes + Prototypes

Axure RP Pro: Add interactivity

The screenshot displays the Axure RP Pro 5.6 software interface. The main workspace shows a wireframe for a page titled "Sub-group 1". The wireframe includes a "Back" button, two list items: "Type 1" with a price of "\$50" and a right-pointing arrow, and "Type 2" with a price of "\$200" and a right-pointing arrow. Below these items is a text block: "You can click anytime at he bottom bar to lorem ipsum lorem ipsum lorem ipsum etc". At the bottom of the wireframe is a navigation bar with three items: "Action 1", "Action 2", and "Action 3".

The interface is divided into several panels:

- Sitemap:** Located on the left, it shows a tree view of the project structure with "Sign-in", "Options", "Sub-group 1", and "Slider" listed.
- Widgets:** Located below the Sitemap, it contains a "Wireframe" search bar and a grid of widget icons including Image, Text Panel, Hyperlink, Rectangle, Placeholder, and Button.
- Masters:** Located below the Widgets, it shows a "Background" master.
- Widget Properties:** Located on the right, it shows the configuration for the selected widget. The "Footnote and Label" section is visible. The "OnClick" case is selected, and its configuration is shown: "Case 1" with the action "Open Options in Current Window". Other cases like "OnMouseEnter" and "OnMouseOut" are also listed.

A hand-drawn arrow points to the "OnClick" case in the Widget Properties panel.

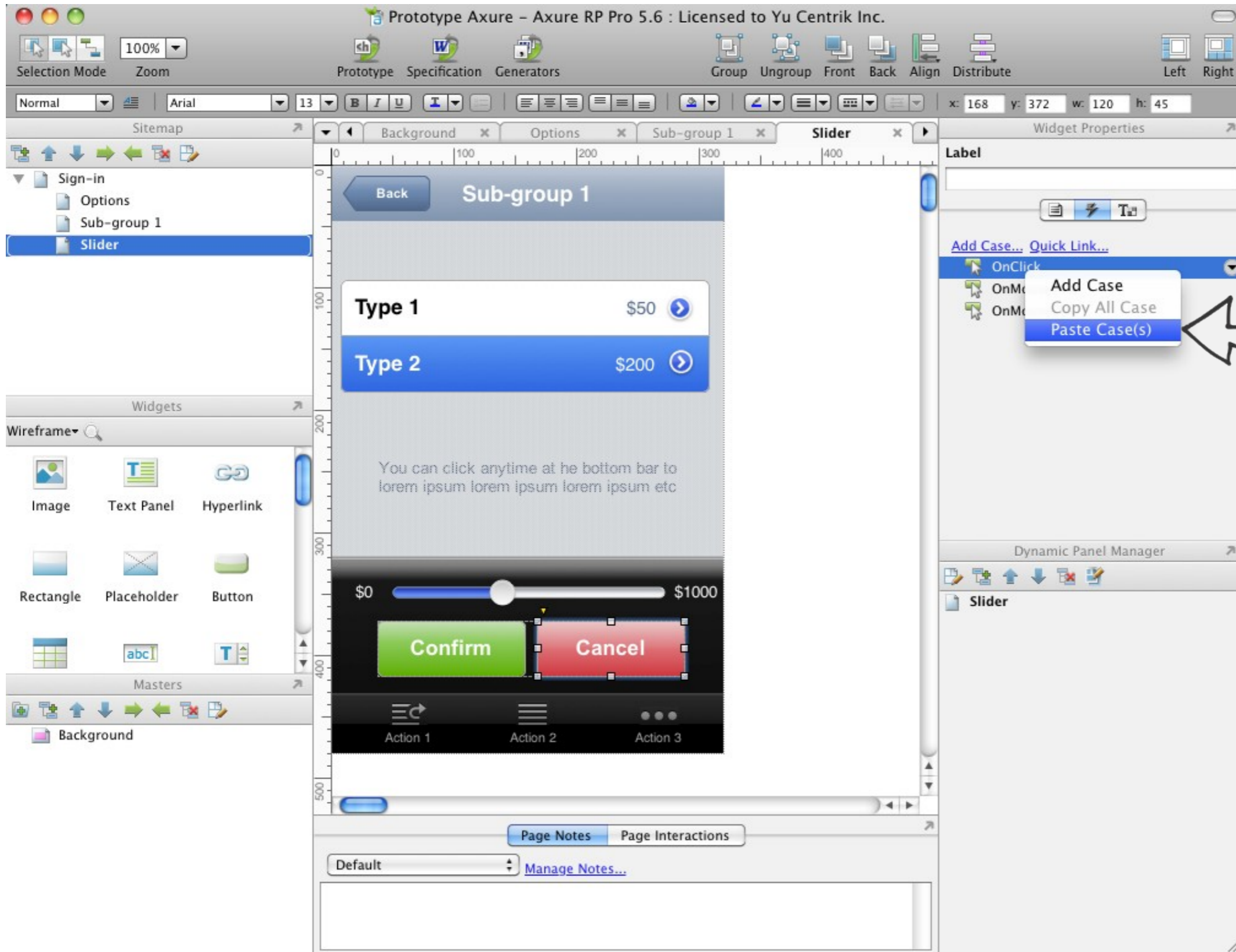
Wireframes + Prototypes

Axure RP Pro: Add interactivity

The screenshot displays the Axure RP Pro 5.6 software interface. The main workspace shows a wireframe of a user interface. At the top, there is a 'Back' button and a 'Sub-group 1' header. Below this, there are two items: 'Type 1' with a price of '\$50' and a right-pointing arrow, and 'Type 2' with a price of '\$200' and a right-pointing arrow. A text block below these items reads: 'You can click anytime at he bottom bar to lorem ipsum lorem ipsum lorem ipsum etc'. At the bottom of the wireframe, there is a slider widget ranging from '\$0' to '\$1000'. Below the slider are two buttons: a green 'Confirm' button and a red 'Cancel' button. At the very bottom of the wireframe, there are three action buttons labeled 'Action 1', 'Action 2', and 'Action 3'. The interface includes several panels: 'Sitemap' on the left showing a tree view with 'Sign-in', 'Options', 'Sub-group 1', and 'Slider'; 'Widgets' on the left showing various UI elements like Image, Text Panel, Hyperlink, Rectangle, Placeholder, and Button; 'Masters' at the bottom left showing a 'Background' master; 'Widget Properties' on the right showing 'Footnote and Label' and 'OnClick' cases; and 'Dynamic Panel Manager' at the bottom right showing a 'Slider' dynamic panel. A context menu is open over the 'Case 1' item in the 'OnClick' section, with options: 'Edit Case', 'Move Case Up', 'Move Case Down', 'Delete', 'Copy Case' (highlighted), 'Paste Case(s)', and 'Toggle IF/ELSE IF'. A hand-drawn arrow points from the right towards the 'Copy Case' option.

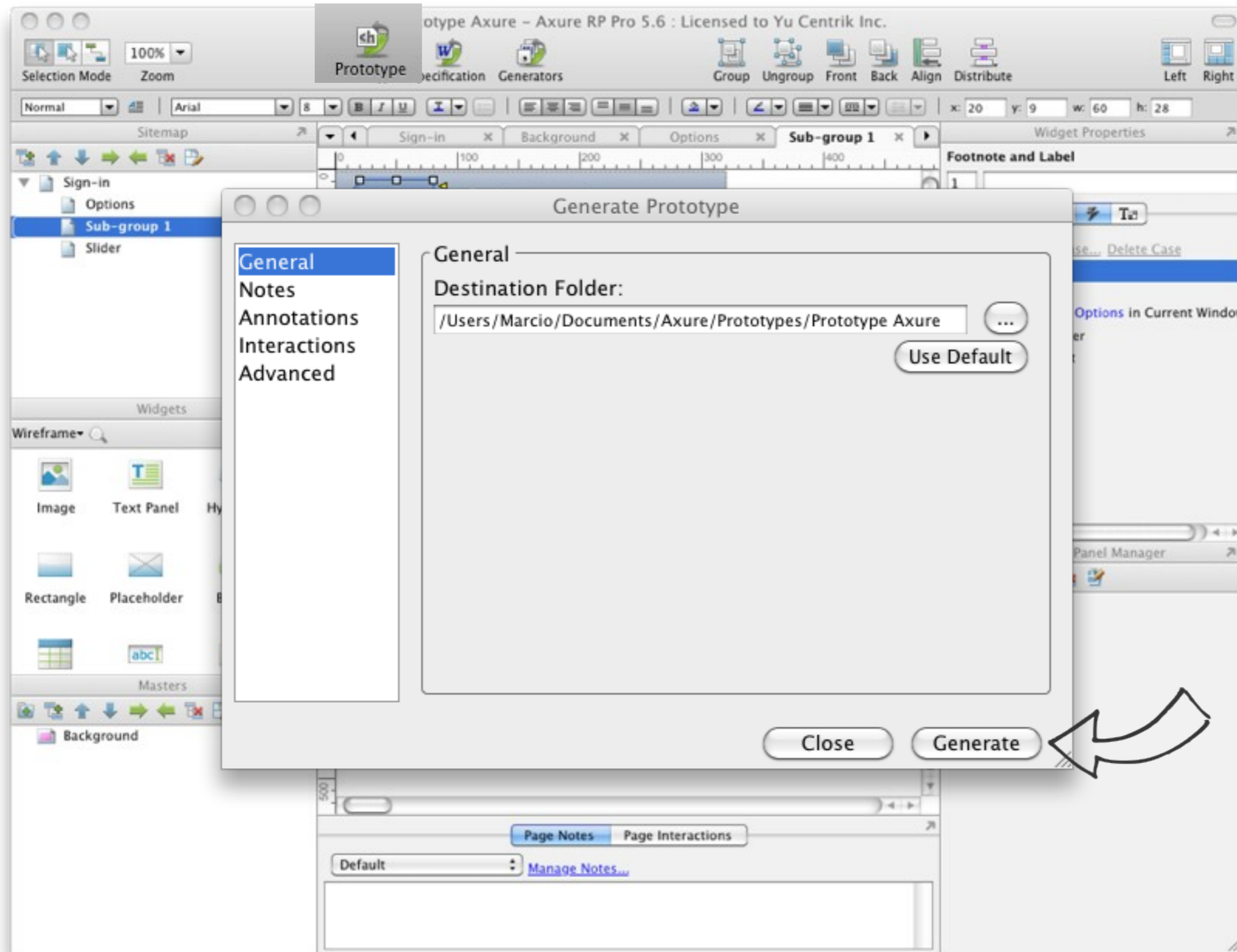
Wireframes + Prototypes

Axure RP Pro: Add interactivity

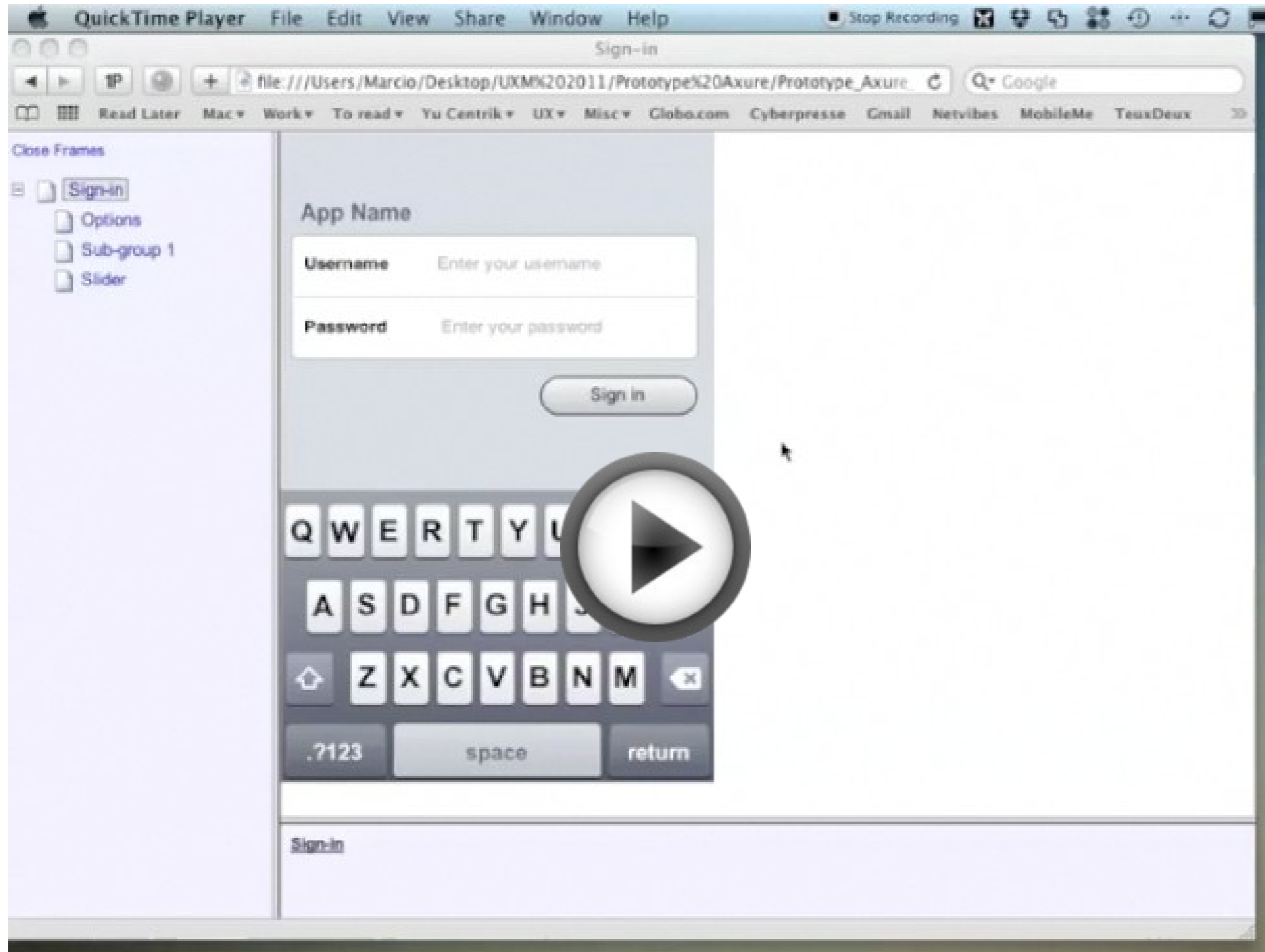


Wireframes + Prototypes

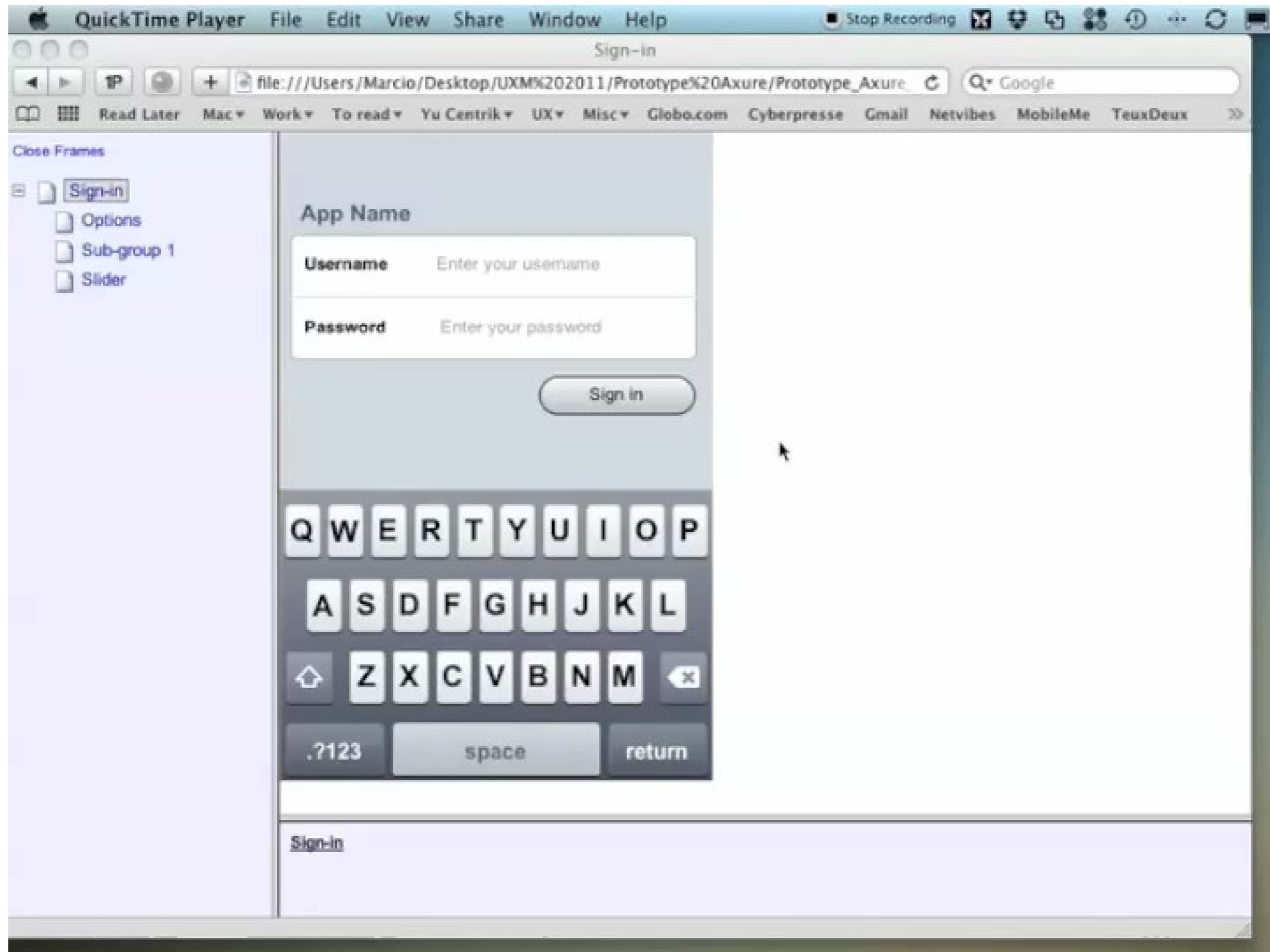
Axure RP Pro: Add interactivity



Axure RP Pro: Add interactivity



Axure RP Pro: Add interactivity



Axure RP Pro:

- 1 LOAD LIBRARIES
- 2 BUILD WIREFRAMES
- 3 ADD INTERACTIVITY
- 4 SHARE PROTOTYPE

Axure RP Pro: Share prototype

The screenshot shows the 'My Prototypes' page in Axure RP Pro. At the top left is the 'ax share' logo. In the top right, the user 'aaJo@yucentrik.ca' is logged in with a 'Sign Out' link. A navigation menu includes 'PROTOTYPES', 'SUBSCRIPTION', 'BRANDING', and 'ACCOUNT INFO'. Below the header, the page title is 'My Prototypes' with a sub-message: 'You have published 1 out of 10 prototypes available for your account. For more prototypes upgrade to Pro.' A toolbar contains buttons for 'New Prototype', 'New Folder', 'Move', 'Delete', and 'Get ID for Discuss'. A table lists the user's prototypes, with one entry for 'aaJo' with ID 'G88ZHX' and a link to 'http://share.axure.com/G88ZHX'. The footer contains links for 'Axure.com', 'Features', 'Terms', and 'Contact', along with a copyright notice for 2002-2012 Axure Software Solutions, Inc.

aaJo@yucentrik.ca [Sign Out](#)

PROTOTYPES SUBSCRIPTION BRANDING ACCOUNT INFO

My Prototypes

You have published **1 out of 10** prototypes available for your account.
For more prototypes [upgrade to Pro](#).

[New Prototype](#) [New Folder](#) [Move](#) [Delete](#) [Get ID for Discuss](#)

My Prototypes

<input type="checkbox"/>	Name ▲	ID	Link	Date	refresh
<input type="checkbox"/>	aaJo	G88ZHX	http://share.axure.com/G88ZHX	December 14, 2012 4:22 PM	

[Axure.com](#) [Features](#) [Terms](#) [Contact](#)

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My Prototypes

You have published 1 out of 10 prototypes
For more prototypes [upgrade to Pro.](#)

New Prototype

New Folder

My Prototypes

<input type="checkbox"/>	Name ▲
<input type="checkbox"/>	aajo

Upload a New Prototype

RP File
(10 mb):

[Select an RP file](#)

Name:

Password
(optional):

Having trouble? [Try the non-Flash uploader](#)

1. Choose an RP file to upload (10 MB file limit)
2. Enter a name for the prototype
3. Enter a password if you'd like to password protect the prototype
4. Click Create
5. Prototypes may take several minutes to generate.



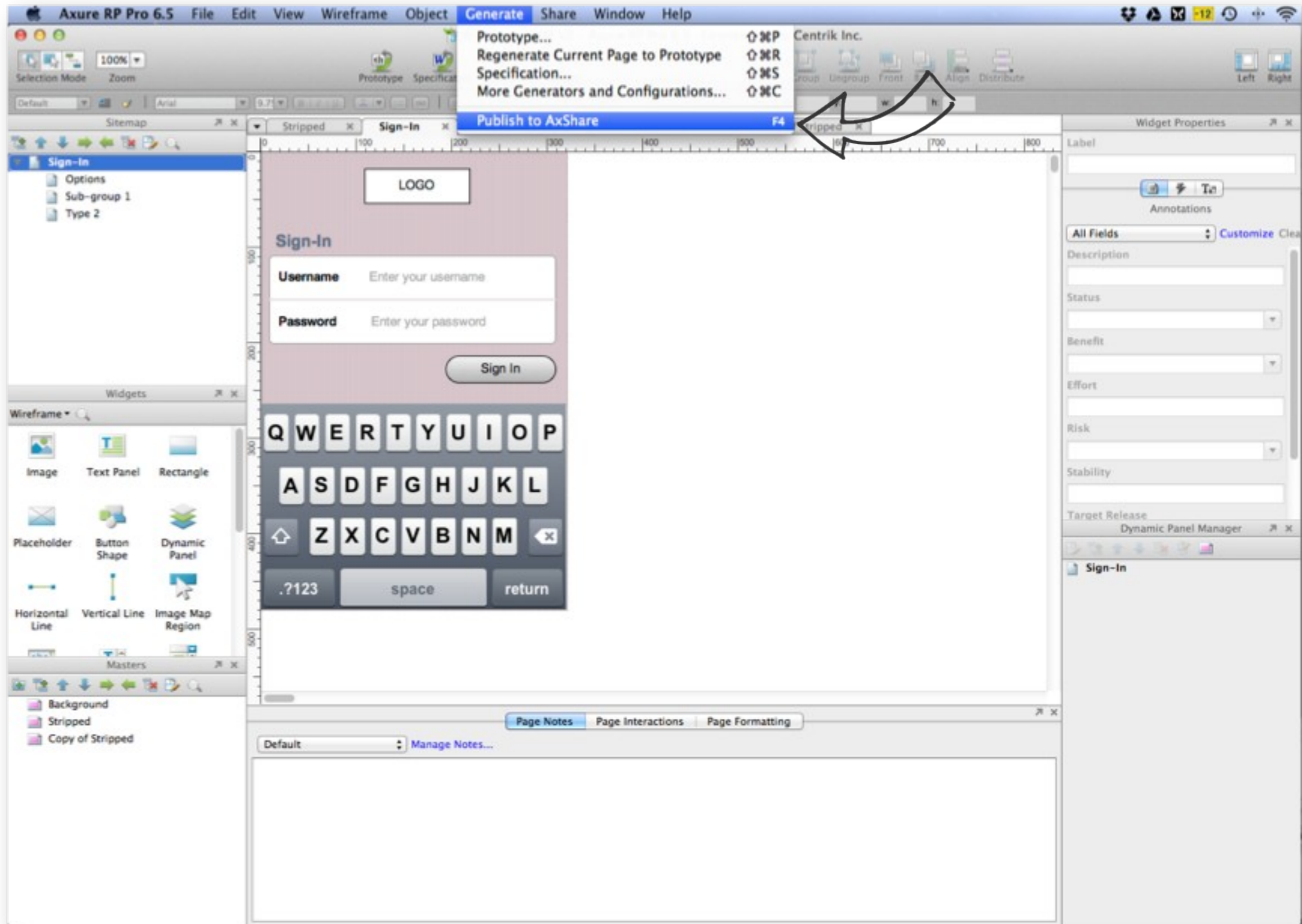
Get ID for Discuss

[refresh](#)

September 14, 2012 4:22 PM

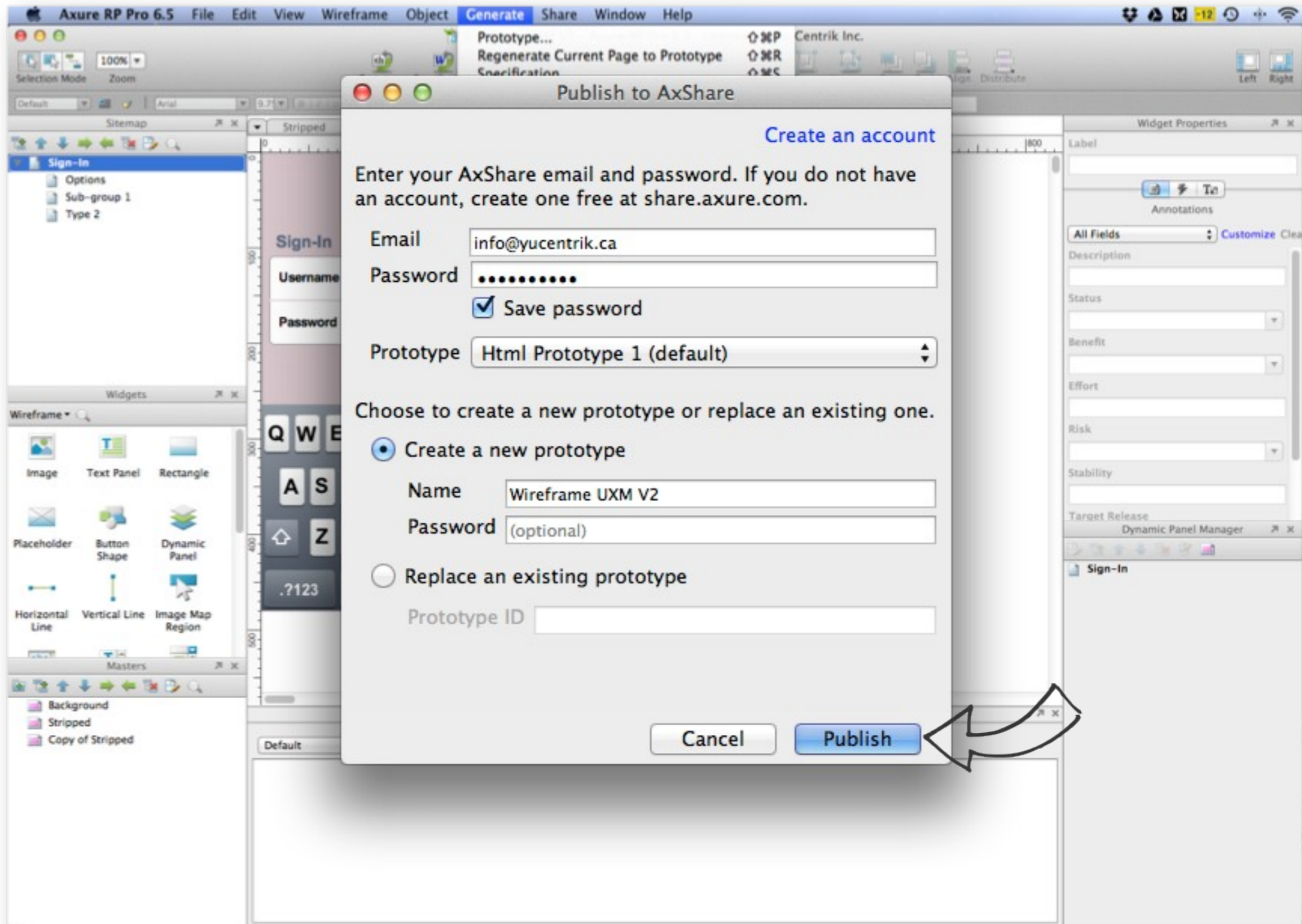
Wireframes + Prototypes

Axure RP Pro: Share prototype

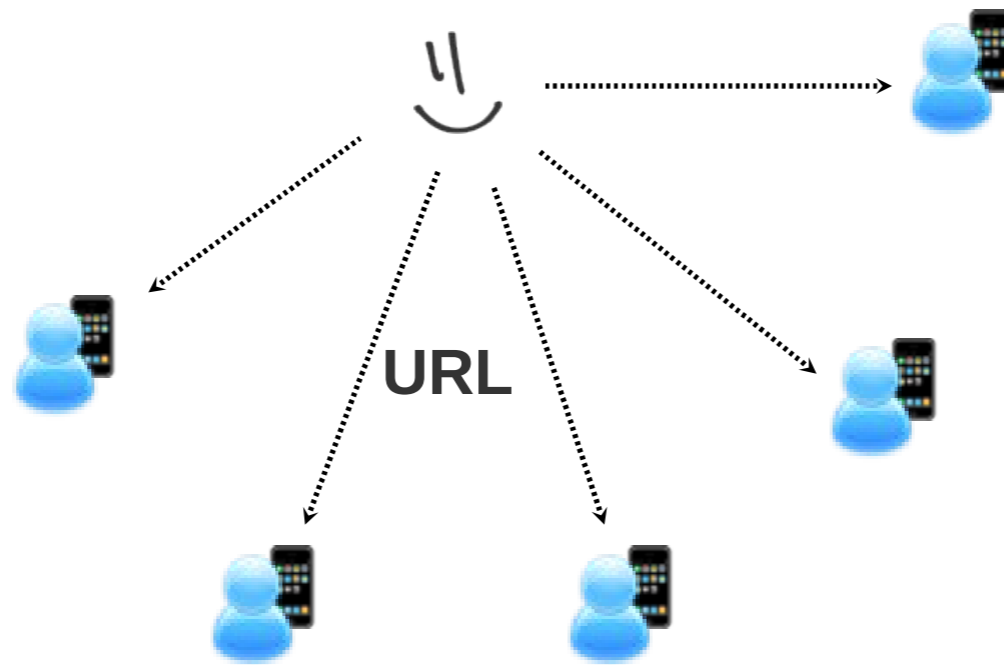


Wireframes + Prototypes

Axure RP Pro: Share prototype

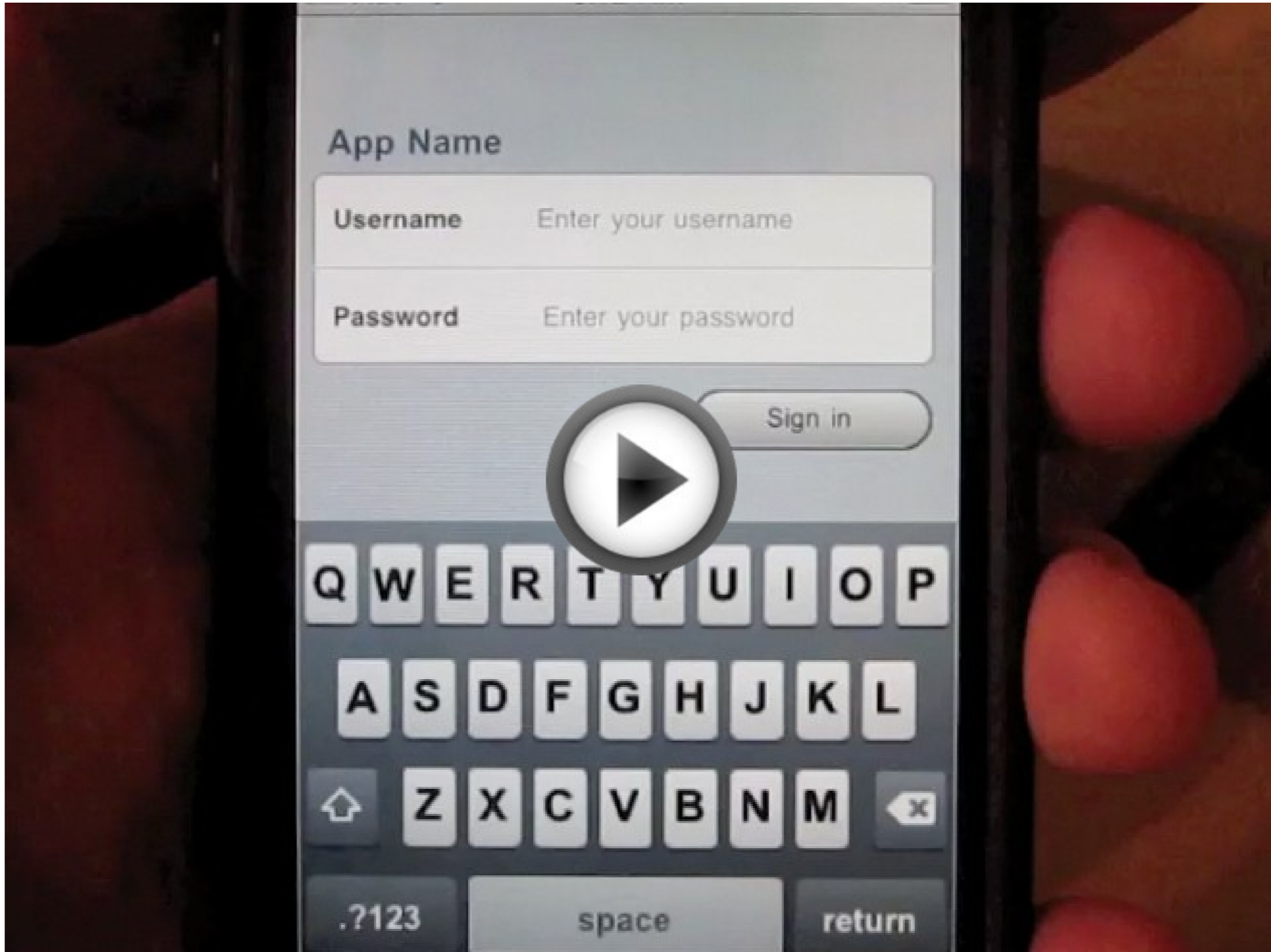


Axure RP Pro: Share prototype

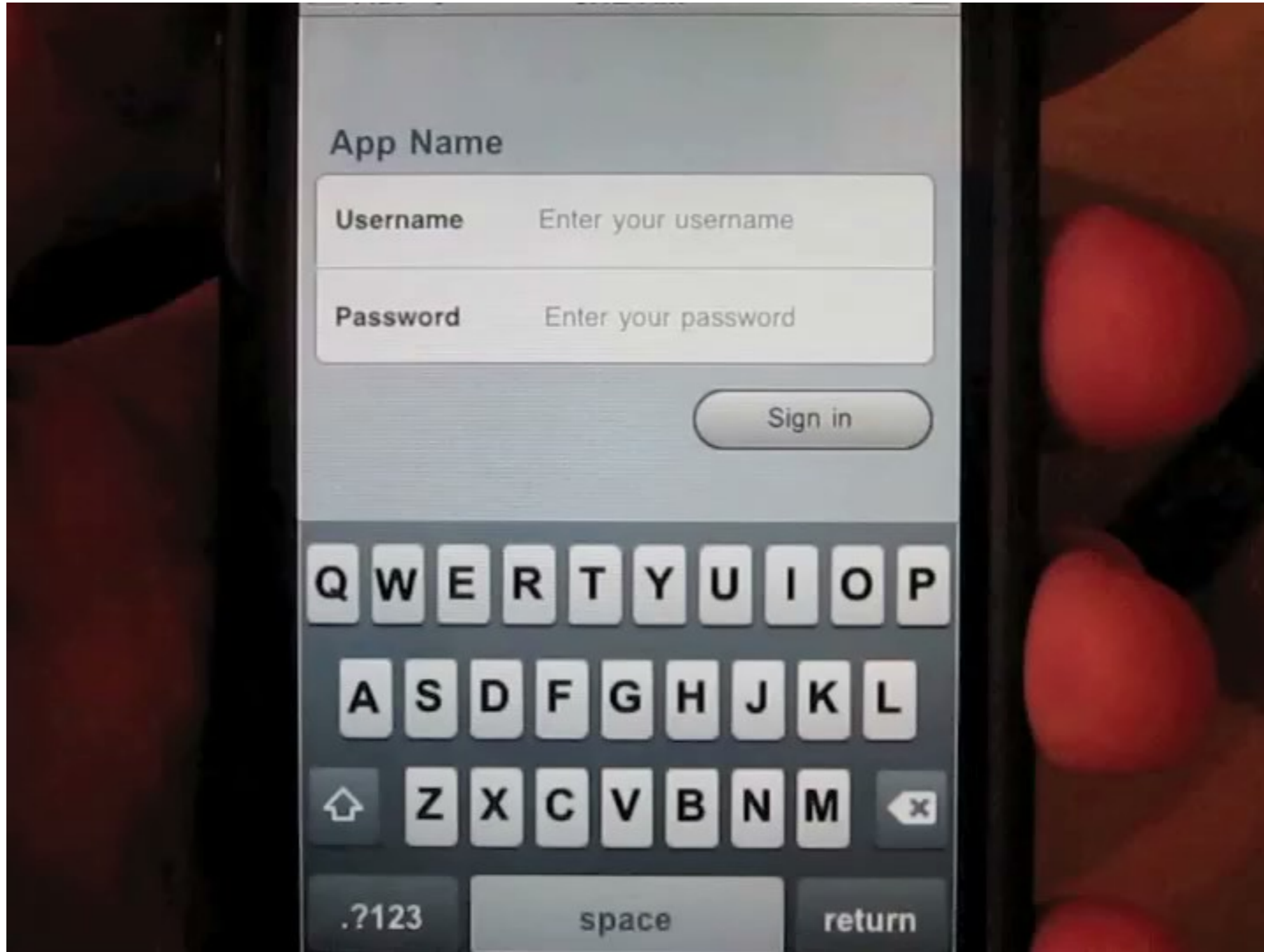


http://share.axure.com/XXXXXXXXX/name_of_the_page

Axure RP Pro: Share prototype



Axure RP Pro: Share prototype



Dynamic Panels = Advanced Interaction
(Drag and Drop, Swipes, Animations,...)

Wireframes + Prototypes

Axure RP Pro



PROS AND CONS

PROS

- Easy to learn
- Capable of producing very low to very high fidelity prototypes
- Easy distribution, allow testing in real usage context
- Good development collaboration via shared projects
- Good feedback tools via AxShare
- Mac and PC compatible
- Lot of people using it!

CONS

More expensive than other tools



proto.io



Give it a try



PROTOTYPE #1



Validate the client's idea
(did we get it right?)



PROTOTYPE #2



Validate our design decisions
(usability, mental model)

PROTOTYPE #3



Give clear specifications
to developers





PROTOTYPE #1



Validate the client's idea
(did we get it right?)



PROTOTYPE #2



Validate our design decisions
(usability, mental model)

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Give clear specifications
to developers



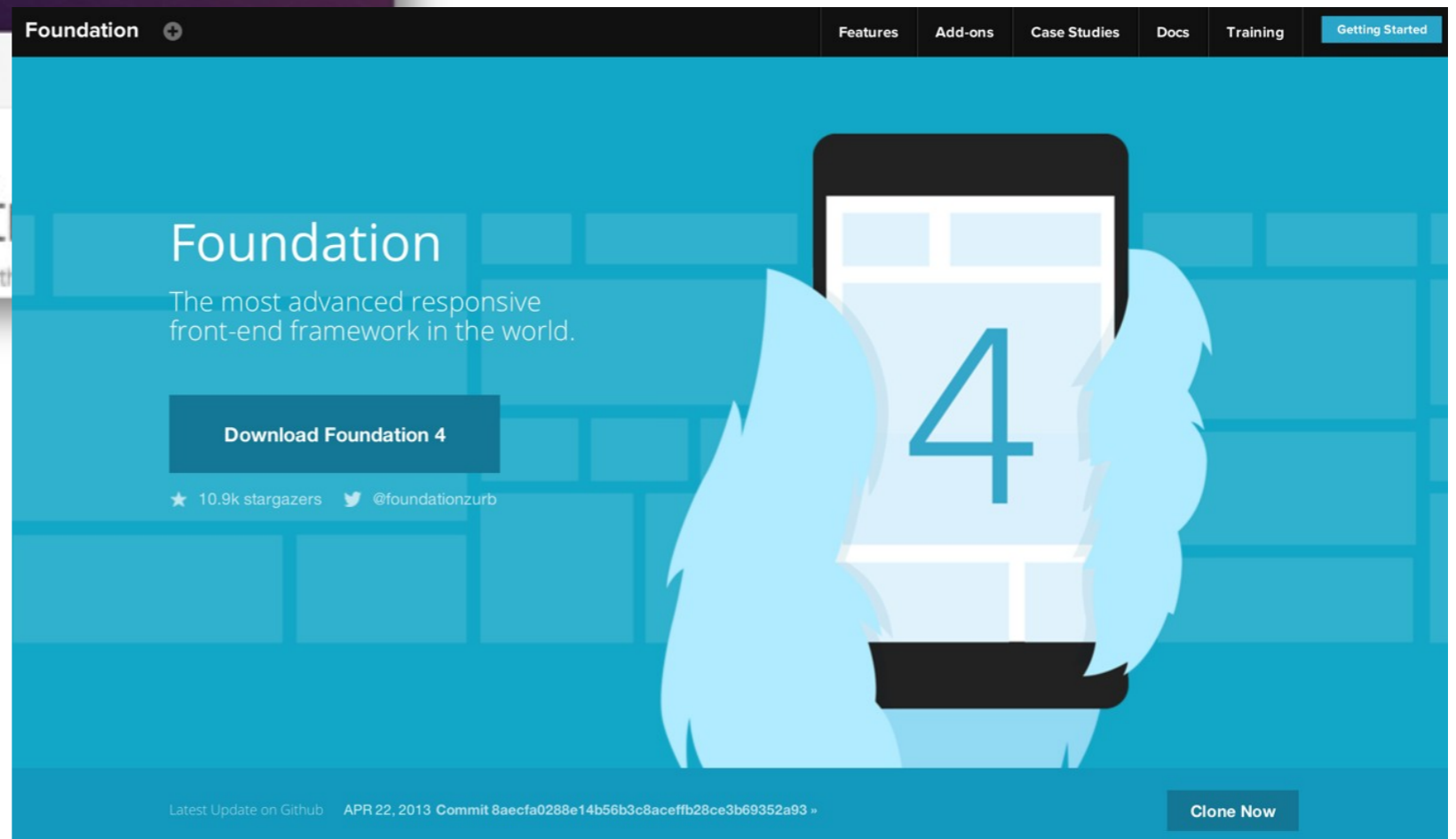
Moving from design to code is a **risky** stage in a project. Lots of small but important **details can be lost...**

If we want to communicate
event better yet with
programmers and save even
more time, why not give
them some **real code** to get
started?

Some examples...



<http://twitter.github.io/bootstrap/>



<http://foundation.zurb.com>

<http://foundation.zurb.com>

Some examples...

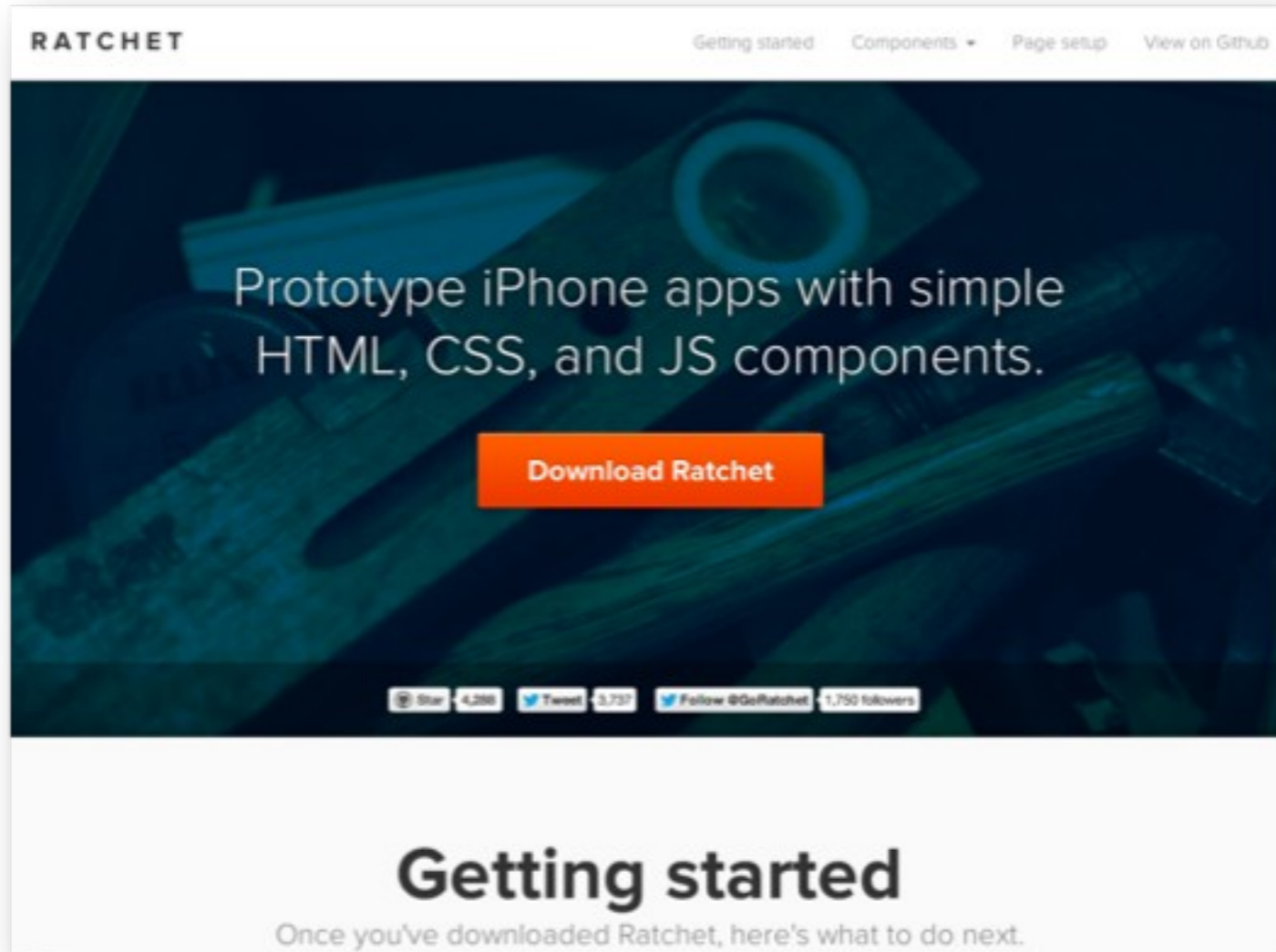
The screenshot shows the Divshot website homepage. At the top left is the Divshot logo, and at the top right is a 'SIGN IN' button. The main heading is 'The Interface Builder for Web Apps', with a sub-headline 'Drag-and-drop. Export to responsive HTML & CSS. Now in beta.' Below this is a video player showing a preview of the interface builder. To the right of the video is a 'Join the Beta Today!' section with a sign-up form containing 'Email Address' and 'Password' fields, and a 'GET STARTED NOW' button.

<http://www.divshot.com>

The screenshot shows the Wirefy website homepage. The top navigation bar includes 'Wirefy' and links for 'GETTING STARTED', 'FEATURES', 'BASE CSS', and 'ASK A QUESTION'. The main heading is 'EVERYTHING YOU NEED TO CREATE FUNCTIONAL WIREFRAMES'. Below this is a 'Download Wirefy from Github' button, with a link to 'View Source on Github'. Social media statistics are shown: 392 Stars, 58 Forks, 306 Tweets, and a 'Follow @wirefy' button. The 'What is Wirefy?' section describes it as a style agnostic wireframe tool. A 'Proudly Sponsored by' section features 'Mental Notes' with a description: 'Psychology + UX Design? Inspire your work with 52 insights into human behavior.'

<http://getwirefy.com>

Some examples...



<http://maker.github.io/ratchet/>



Interface 2
Advanced Mockup for iOS

<http://interface2.lesscode.co.nz>



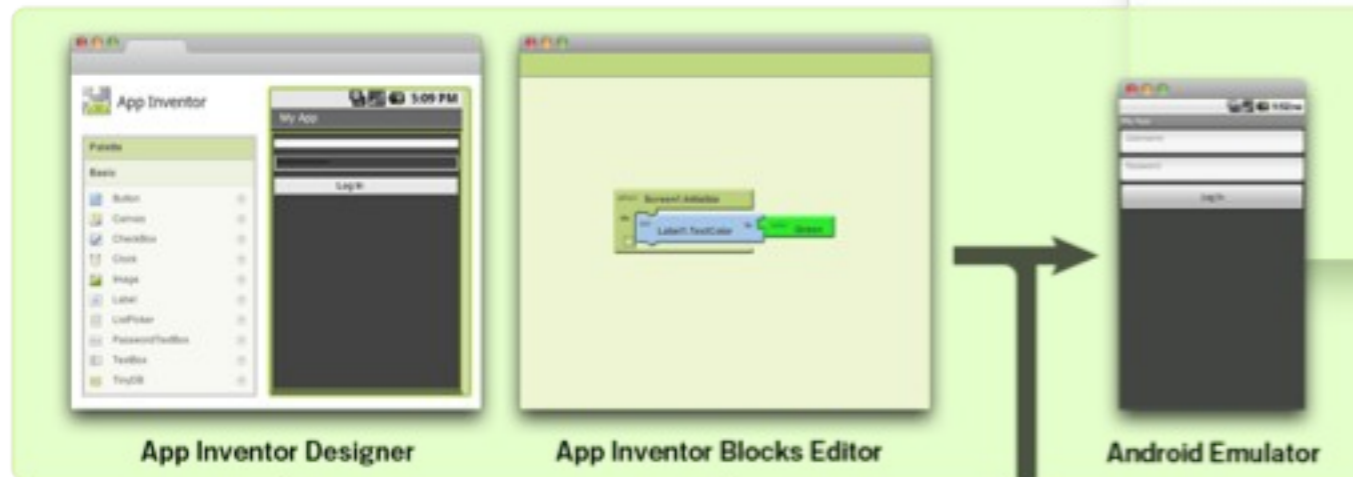
<http://dapp.kerofrog.com.au>

Some examples...

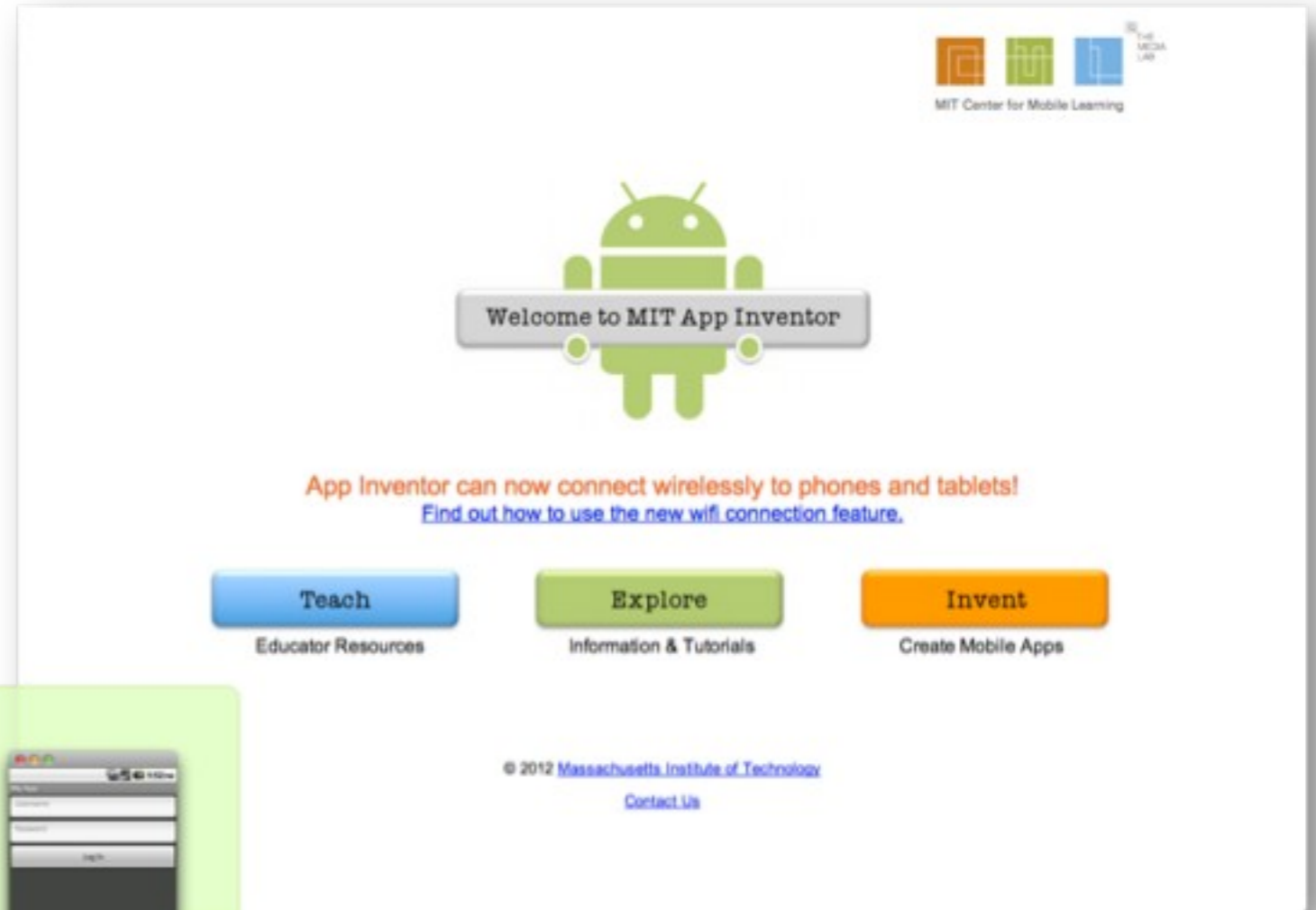
MIT App Inventor



Google App Inventor Servers



Android Phone



<http://appinventor.mit.edu>

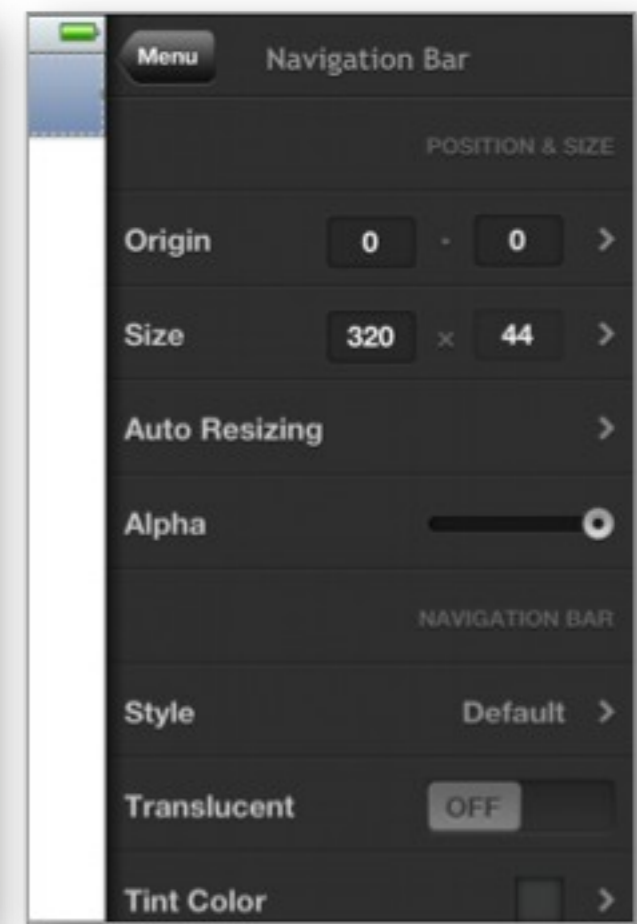
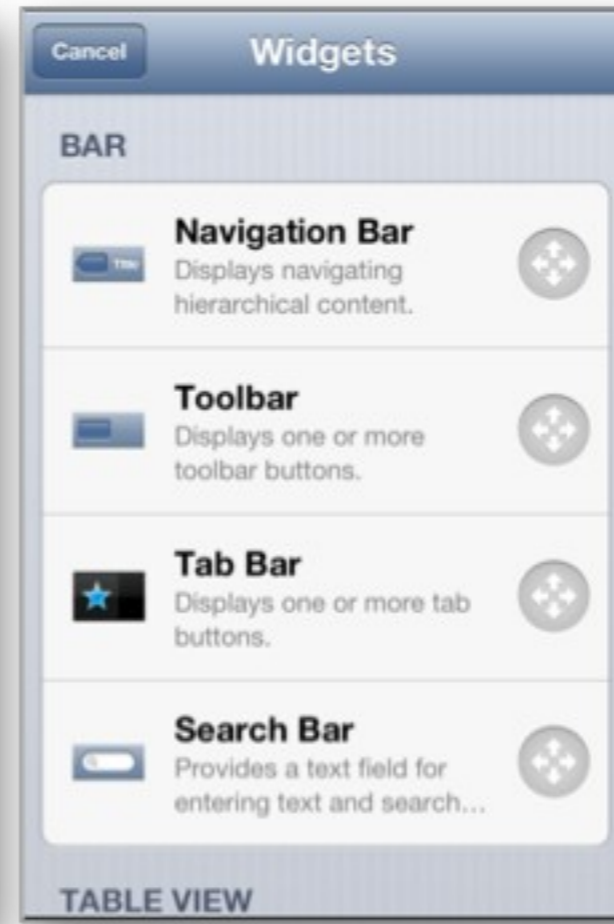
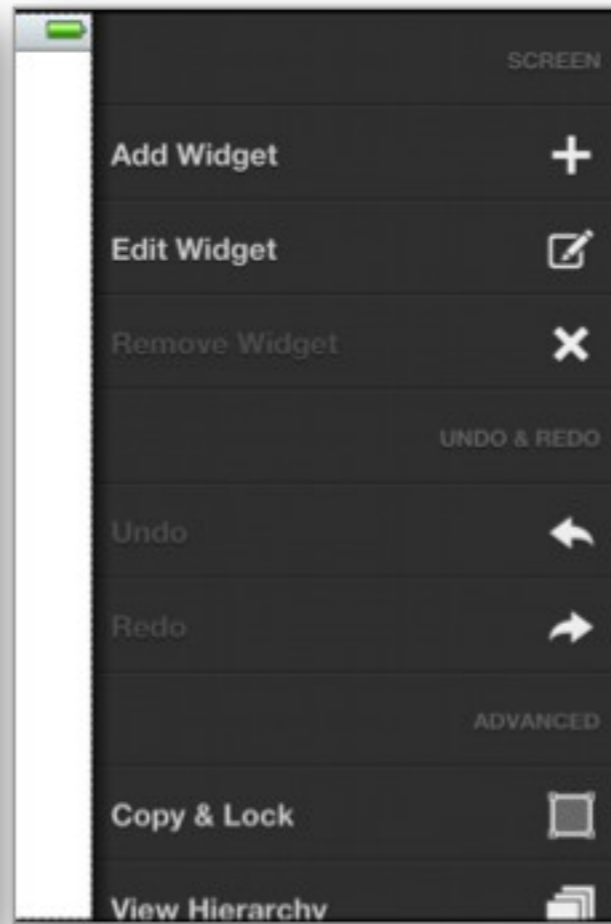
Wireframes + Prototypes
Interface 2



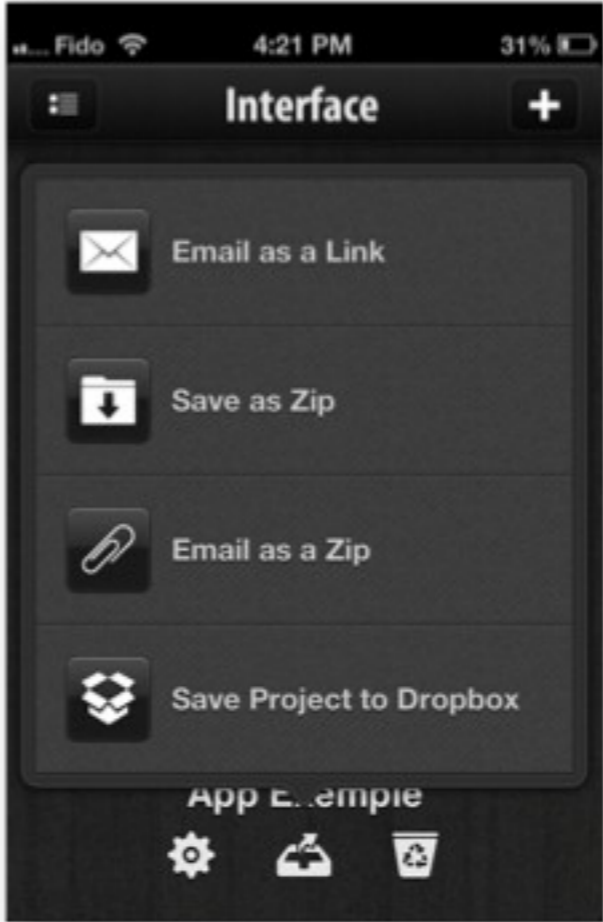
Wireframes + Prototypes
Interface 2



Wireframes + Prototypes Interface 2



Wireframes + Prototypes
Interface 2

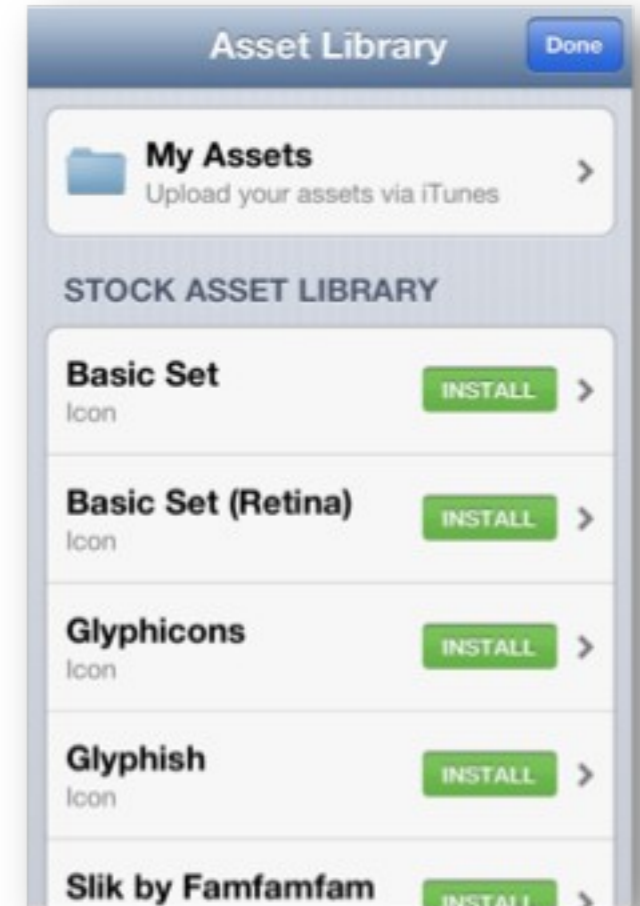
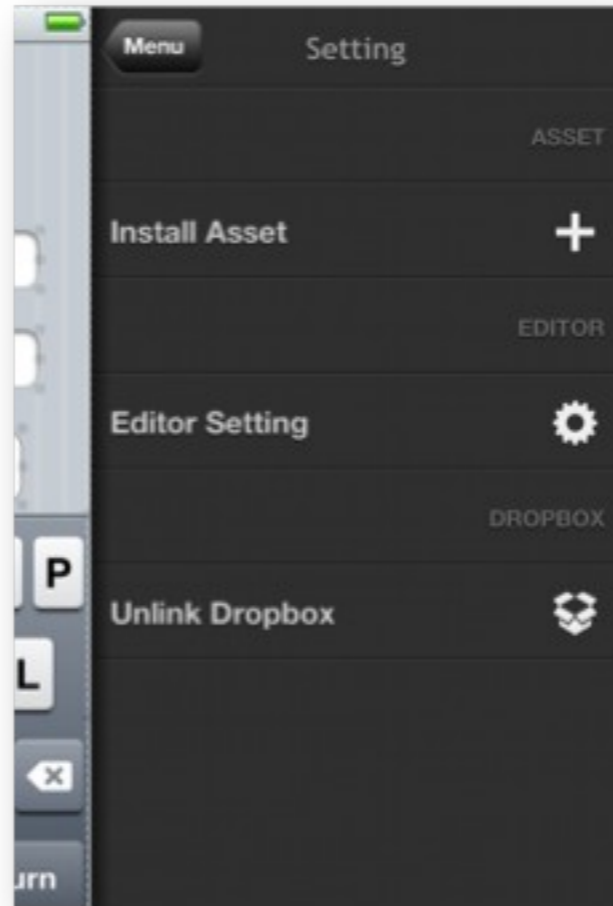
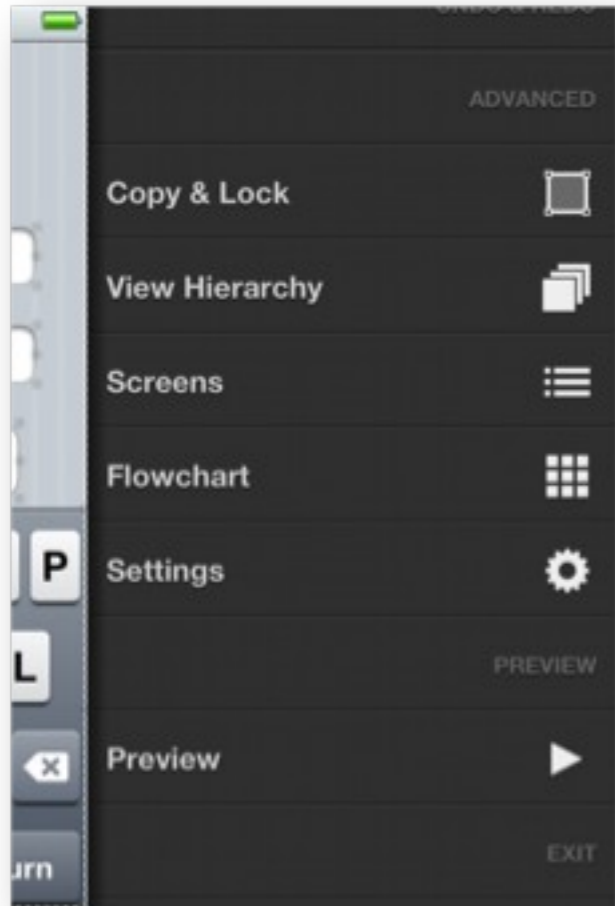


Interface 2:

- 1** LOAD LIBRARIES
- 2** BUILD WIREFRAMES
- 3** ADD INTERACTIVITY
- 4** SHARE PROTOTYPE

Wireframes + Prototypes

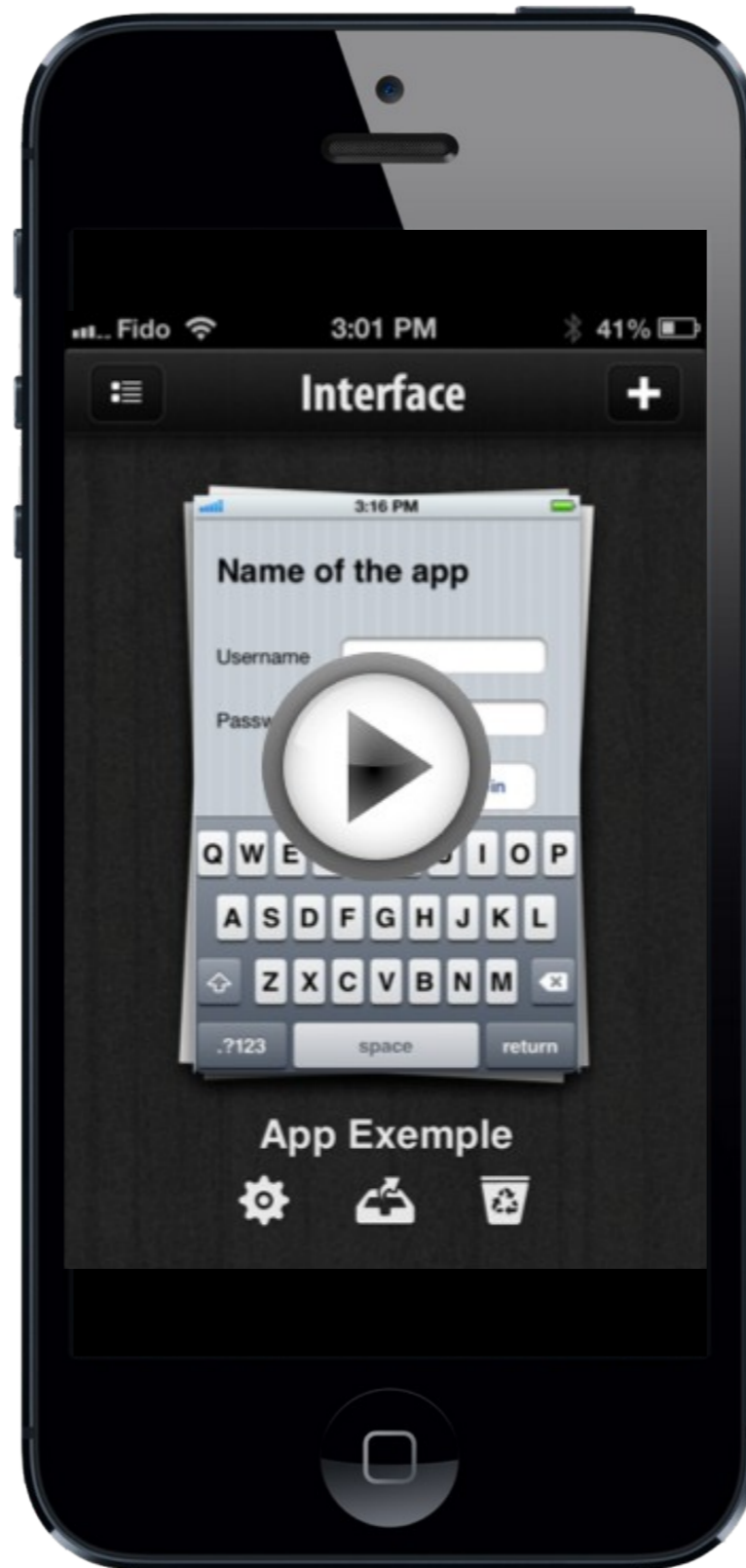
Interface 2: Load libraries



Interface 2:

- 1 LOAD LIBRARIES
- 2 BUILD WIREFRAMES
- 3 ADD INTERACTIVITY
- 4 SHARE PROTOTYPE

Interface 2: Build wireframes



Interface 2: Build wireframes



Interface 2:

- 1 LOAD LIBRARIES
- 2 BUILD WIREFRAMES
- 3 ADD INTERACTIVITY
- 4 SHARE PROTOTYPE

Wireframes + Prototypes

Interface 2: Add interactivity



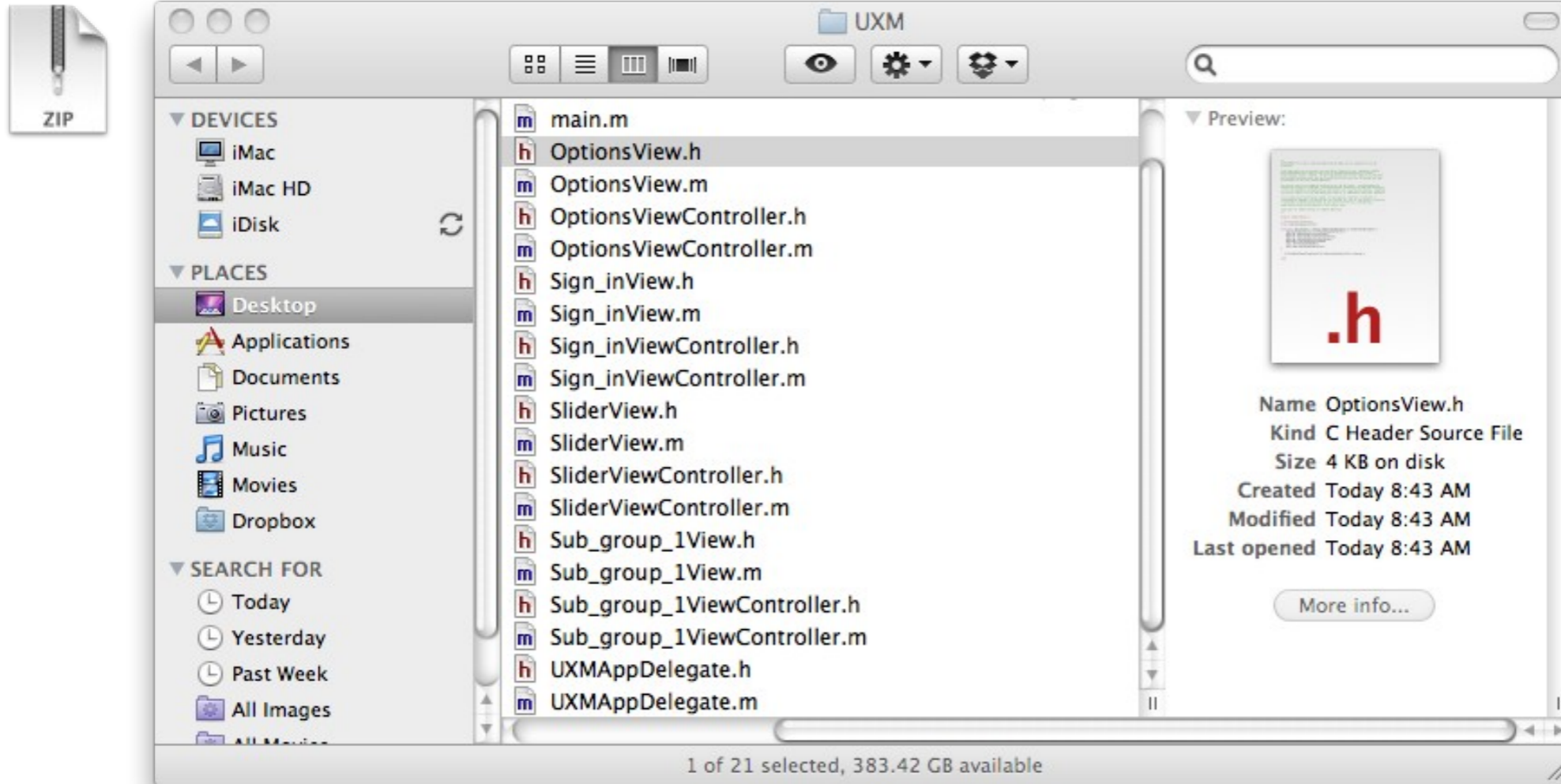
Interface 2:

- 1 LOAD LIBRARIES
- 2 BUILD WIREFRAMES
- 3 ADD INTERACTIVITY
- 4 SHARE PROTOTYPE

Interface 2: Share prototype



Interface 2: Share prototype



Wireframes + Prototypes

Interface 2



PROS AND CONS

PROS

- Cheap
- No need to use a PC
- Exports native code saving app development time
- Prototypes look like real iPhone apps

CONS

- Harder to manipulate, longer prototyping time
- Limited control on some of UI objects
- iOS only

If you have some **HTML/CSS** skills...

Try



PhoneGap



appcelerator



Sencha



Highly recommended

RATCHET [Getting started](#) [Components](#) [Page setup](#) [View on Github](#)

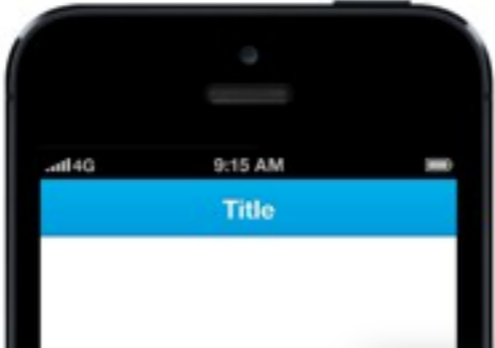
Components

Design patterns that serve as basic building blocks.

Title bar

Title bars are full width and docked to the top of the viewport.

```
<header class="bar-title">
  <h1 class="title">Title</h1>
</header>
```




RATCHET [Getting started](#) [Components](#) [Page setup](#) [View on Github](#)

Title bar with segmented controller

Title bars can also house segmented controllers (with or without accompanying buttons). It all uses flex-box to create perfectly even spacing no matter their labels.

```
<header class="bar-title">
  <a class="button" href="#">
    Left
  </a>
  <ul class="segmented-controller">
    <li class="active">
      <a href="#">One</a>
    </li>
    <li>
      <a href="#">Two</a>
    </li>
    <li>
      <a href="#">Three</a>
    </li>
  </ul>
  <a class="button" href="#">
    Right
  </a>
</header>
```



Tab bar

Icons should be around 24px by 18px. The gradient on an icon starts





PROTOTYPE #1



Validate the client's idea
(did we get it right?)



PROTOTYPE #2



Validate our design decisions
(usability, mental model)



PROTOTYPE #3



Give clear specifications
to developers



The **importance** of prototyping

**Prototyping is important,
no matter the platform
(web, mobile, TV, etc.)**

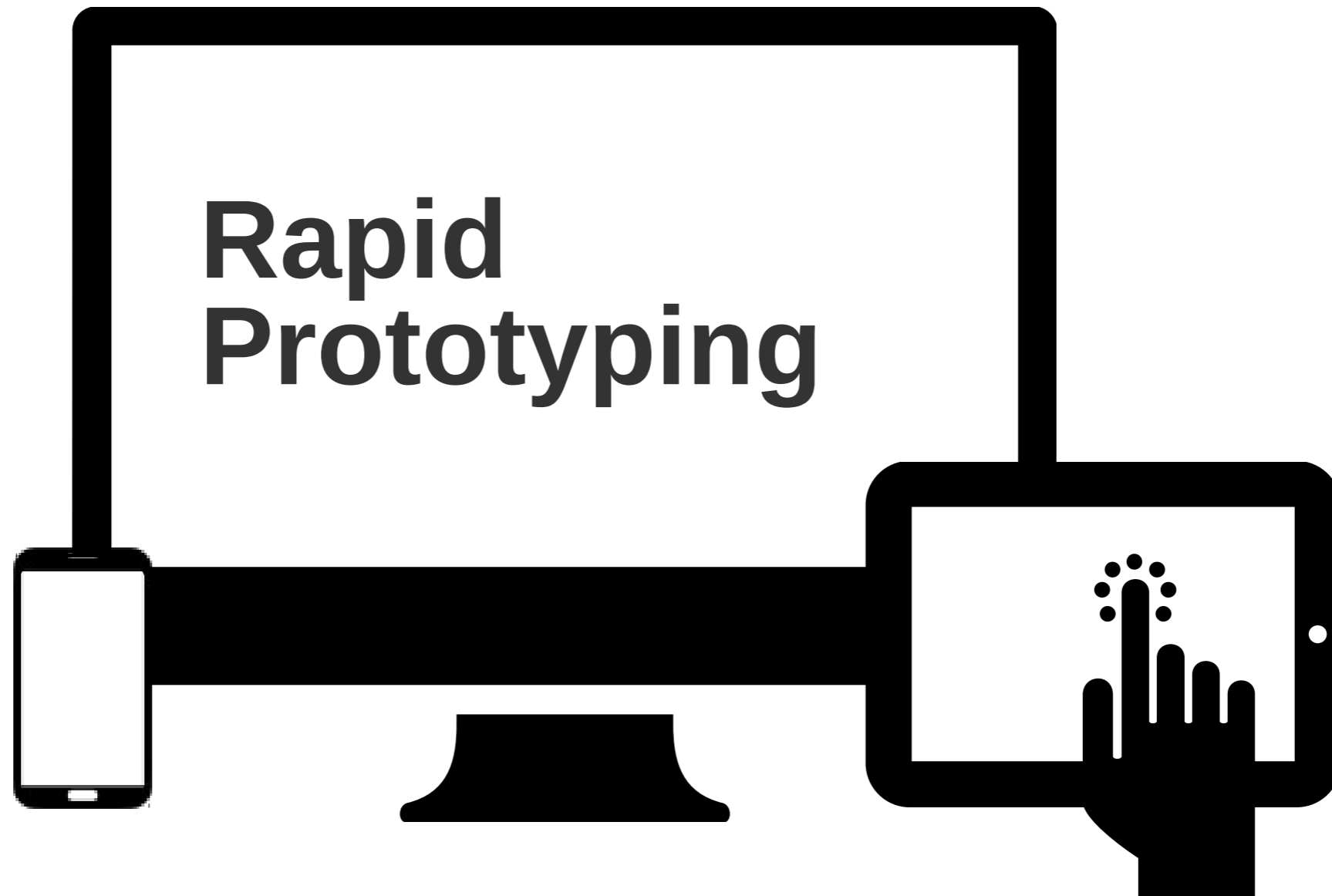
The importance of prototyping

- Prototyping allows you to **communicate better**
- Prototyping **saves you money** (development, marketing, etc.)
- Rapid prototyping helps you be part of an **agile** environment

Why is it even more important to rapid prototype mobile apps?

- Mobile phones with touch screens are still a **new platform** compared to the web
- Mobile apps are **even younger**
- Developing and deploying mobile apps is **more complex** than web sites and web apps, thus more costly
- App weaknesses are exposed very quickly through the App Store and Google Play **review systems**





Better design, better software, less time, less money



спасибо!

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@marciokl

Questions?