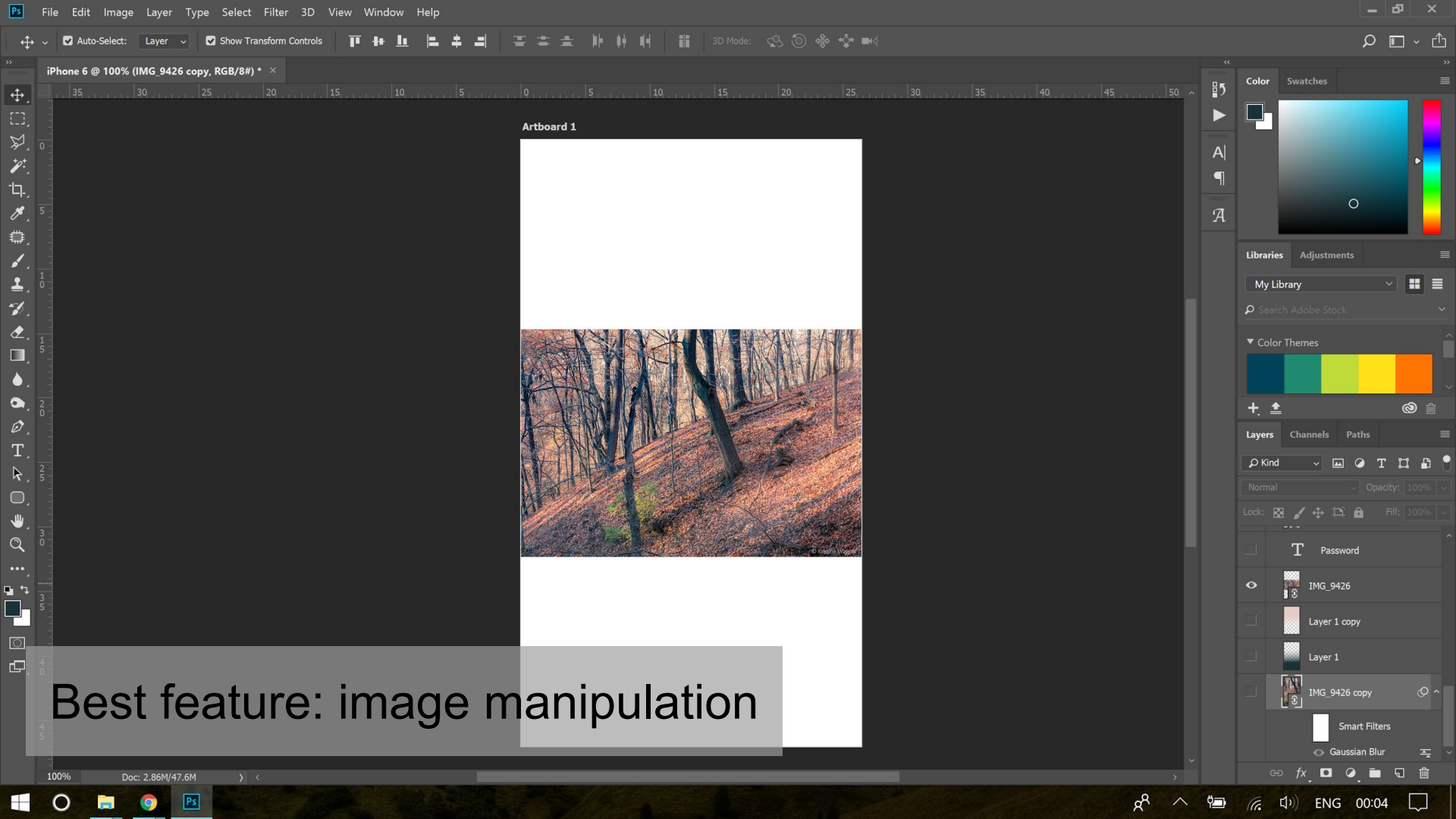
Prototyping Tools

Jenna Choo, Kristina Wagner, Alex Wang
TAs for:

05-863 / 45-888: Introduction to Human Computer Interaction for Technology Executives, *Fall, 2017, Mini 2*

Adobe Photoshop


File Edit Image Layer Type Select Filter 3D View Window Help
Auto-Select: Layer
Show Transform Controls
3D Mode:
iPhone 6 @ 100% (IMG_9426 copy, RGB/8#) *
Artboard 1
Color
Swatches
Libraries
Adjustments
My Library
Search Adobe Stock
Color Themes
Layers
Channels
Paths
Kind
Normal
Opacity: 100%
Lock:
Fill: 100%
Password
IMG_9426
Layer 1 copy
Layer 1
IMG_9426 copy
Smart Filters
Gaussian Blur
Best feature: image manipulation
100%
Doc: 2.86M/47.6M
ENG
00:04

File Edit Image Layer Type Select Filter 3D View Window Help

Auto-Select: Layer | Show Transform Controls | 3D Mode:

iPhone 6 @ 100% (IMG_9426 copy, RGB/8#) *

Artboard 1

Color | Swatches

Libraries | Adjustments

My Library

Search Adobe Stock

Color Themes

Layers | Channels | Paths

Kind

Normal | Opacity: 100%

Lock: | Fill: 100%

Password

IMG_9426

Layer 1 copy

Layer 1

IMG_9426 copy

Smart Filters

Gaussian Blur

100% Doc: 2.86M/47.6M

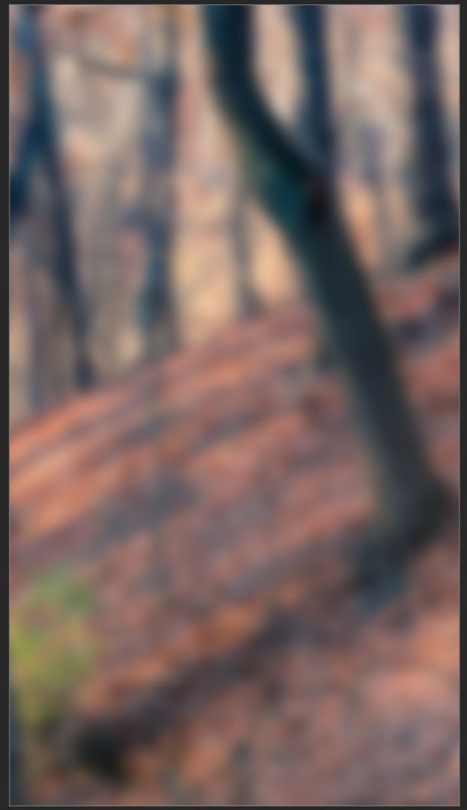
ENG 00:03

File Edit Image Layer Type Select Filter 3D View Window Help

Auto-Select: Layer | Show Transform Controls | 3D Mode:

iPhone 6 @ 100% (RGB/8#) *

Artboard 1



Color Swatches

Libraries Adjustments

My Library

Search Adobe Stock

Color Themes

Layers Channels Paths

Kind

Normal Opacity: 100%

Lock: Fill: 100%

Password

IMG_9426

Layer 1 copy

Layer 1

IMG_9426 copy

Smart Filters

Gaussian Blur

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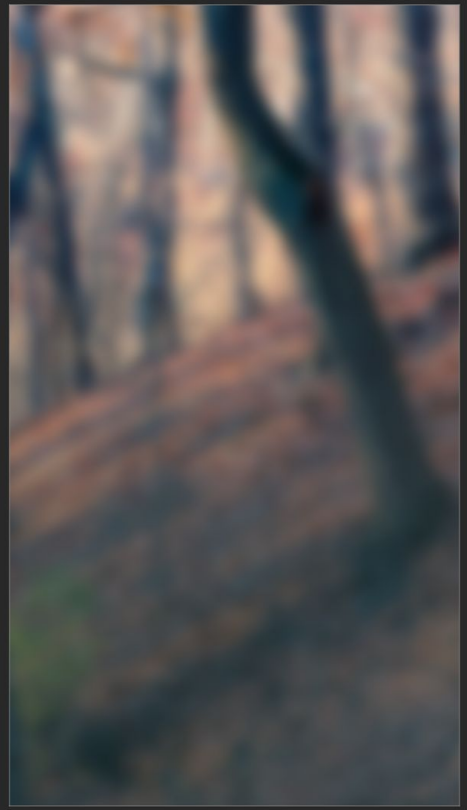
iPhone 6 @ 100% (RGB/8#) *

Artboard 1



Properties | Info

Document Properties

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X: 0 Y: 0

Resolution: 72 pixels/inch

Color | Swatches

Libraries | Adjustments

My Library

Search Adobe Stock

Color Themes

Layers | Channels | Paths

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Normal Opacity: 100%

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Layer 1 copy

Layer 1

IMG_9426 copy

Smart Filters

Gaussian Blur

100% Doc: 2.86M/47.6M

ENG 00:03

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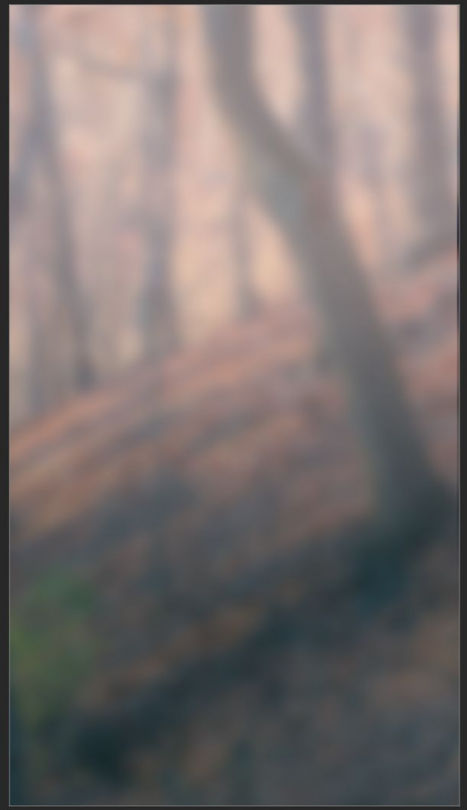
Auto-Select: Layer | Show Transform Controls | 3D Mode:

iPhone 6 @ 100% (RGB/8#) *

Artboard 1



Properties | Info

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W: 26.46 cm H: 47.06 cm

X: 0 Y: 0

Resolution: 72 pixels/inch

Color | Swatches

Libraries | Adjustments

My Library

Search Adobe Stock

Color Themes

Layers | Channels | Paths

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Password

IMG_9426

Layer 1 copy

Indicates layer visibility

Layer 1

IMG_9426 copy

Smart Filters

Gaussian Blur

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File Edit Image Layer Type Select Filter 3D View Window Help

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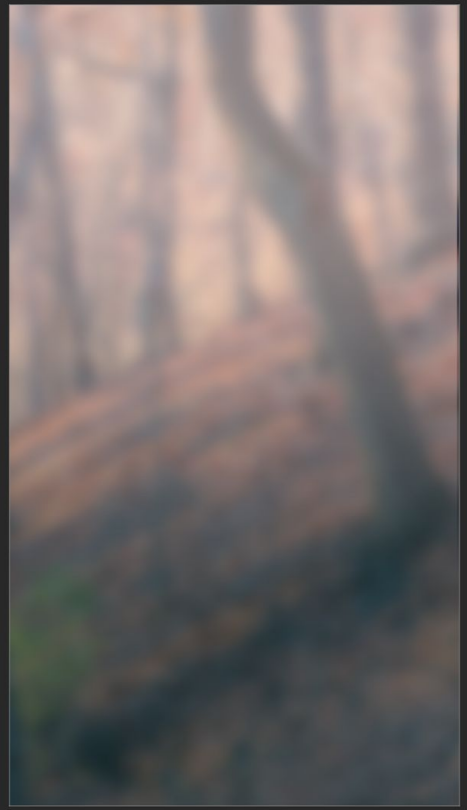
Artboard 1



Properties | Info

Document Properties

W: 26.46 cm H: 47.06 cm

X: 0 Y: 0

Resolution: 72 pixels/inch

Color | Swatches

Libraries | Adjustments

My Library

Search Adobe Stock

Color Themes

Layers | Channels | Paths

Kind

Normal Opacity: 100%

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Drop Shadow

Sign in with Google

Rounded Rectangle 2 c... fx

Indicates layer visibility

Effects

Drop Shadow

Sign in with Facebook

Rounded Rectangle 2 fx

Effects

Drop Shadow

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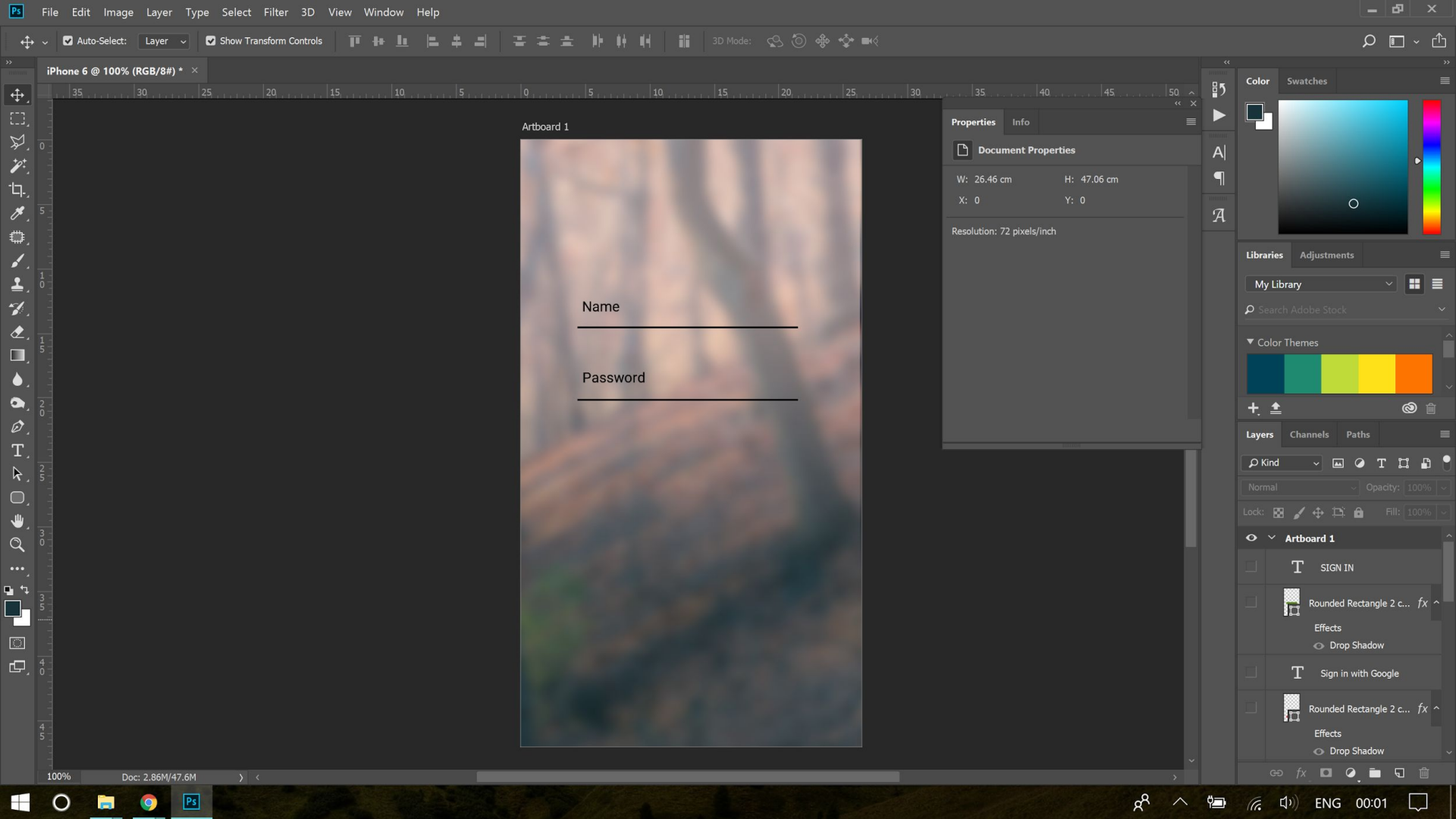
ENG 00:02


File Edit Image Layer Type Select Filter 3D View Window Help
Auto-Select: Layer
Show Transform Controls
3D Mode:
iPhone 6 @ 100% (RGB/8#) *
Artboard 1
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Document Properties
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Search Adobe Stock
Color Themes
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Opacity: 100%
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Artboard 1
SIGN IN
Rounded Rectangle 2 c...
Effects
Drop Shadow
Sign in with Google
Rounded Rectangle 2 c...
Effects
Drop Shadow
100%
Doc: 2.86M/47.6M
ENG
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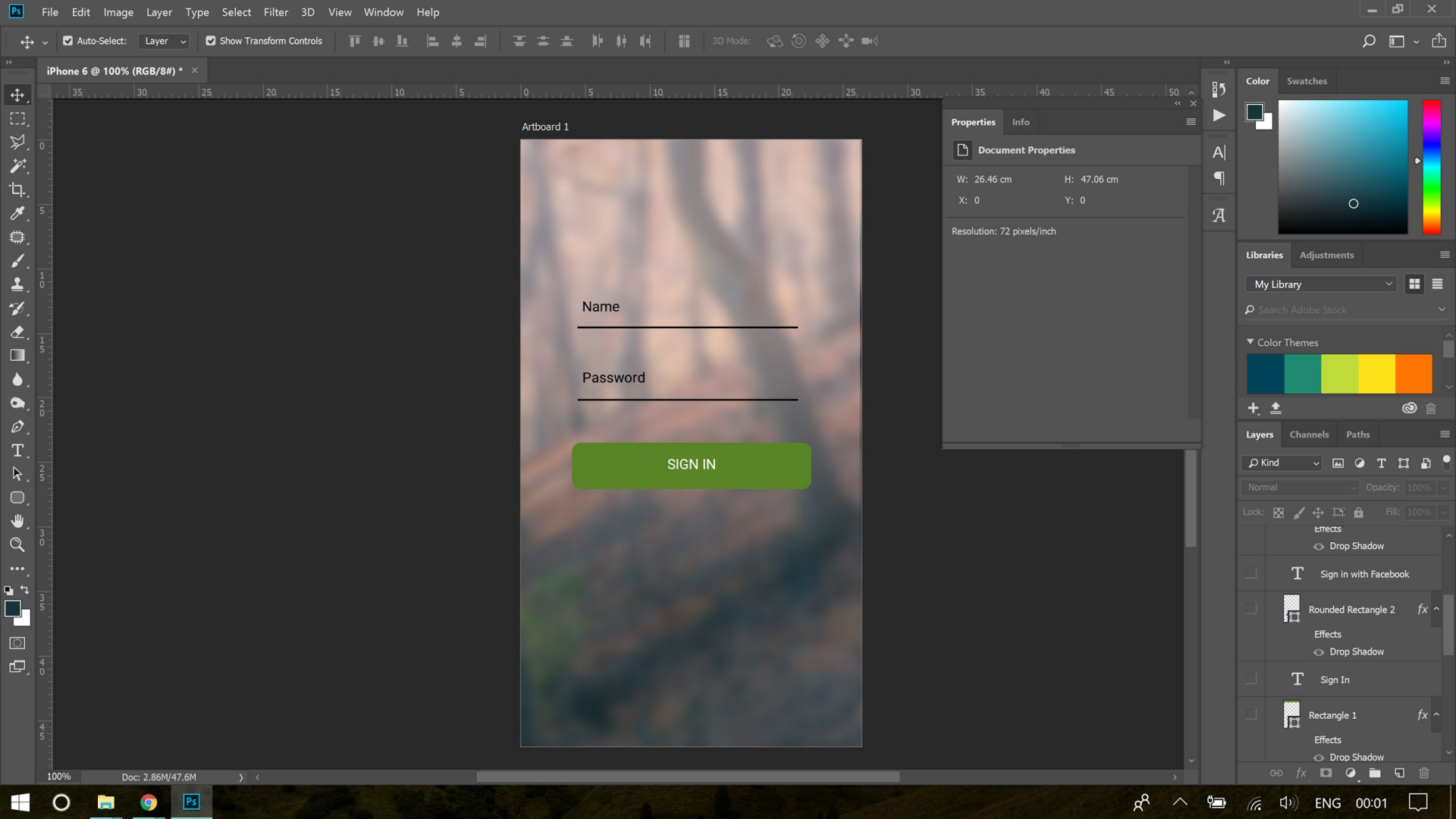
File Edit Image Layer Type Select Filter 3D View Window Help
Auto-Select: Layer
Show Transform Controls
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iPhone 6 @ 100% (RGB/8#) *
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SIGN IN
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Y: 0
Resolution: 72 pixels/inch
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Drop Shadow
Sign in with Facebook
Rounded Rectangle 2
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Drop Shadow
Sign In
Rectangle 1
Effects
Drop Shadow
100%
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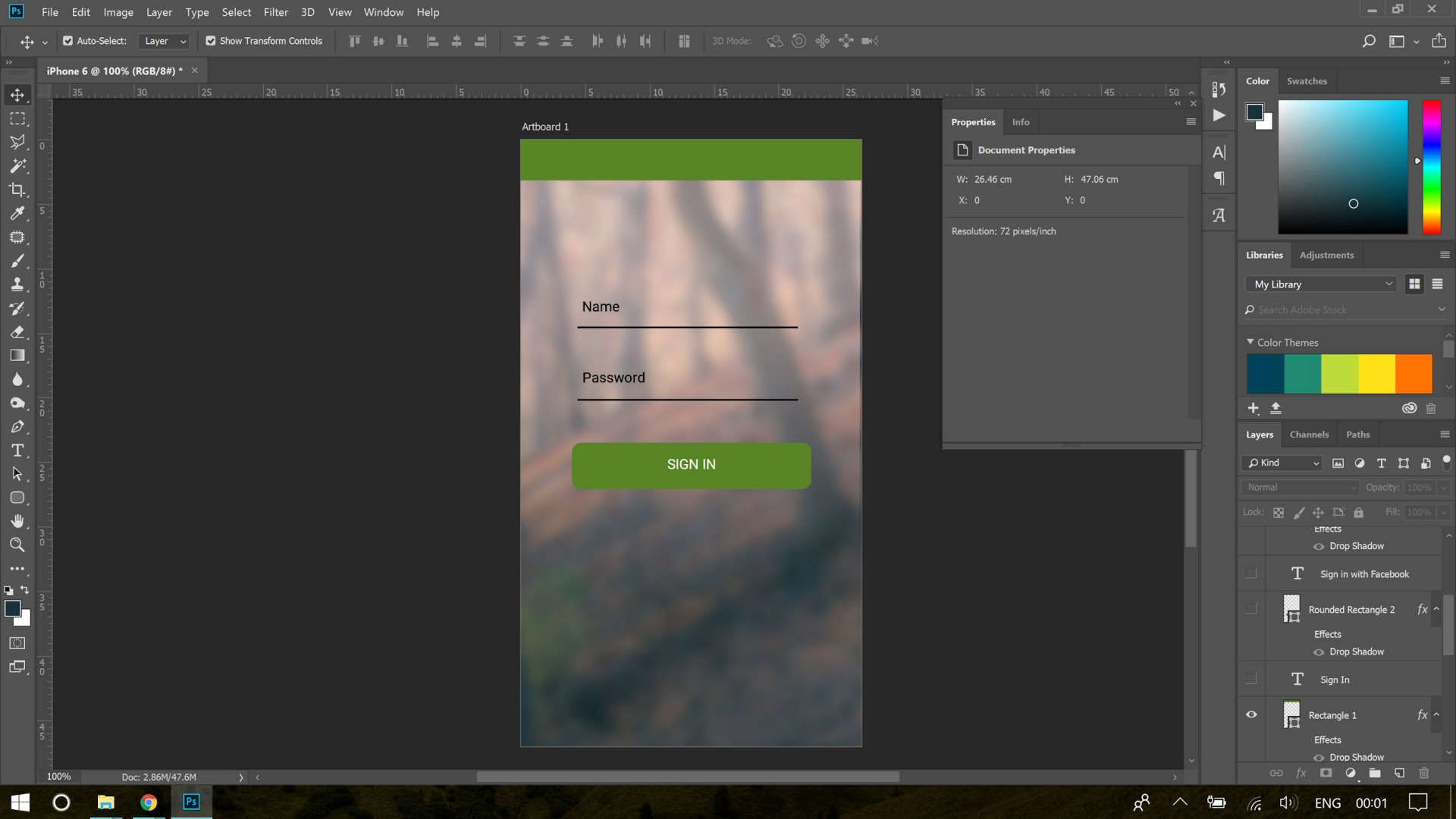
File Edit Image Layer Type Select Filter 3D View Window Help
Auto-Select: Layer
Show Transform Controls
3D Mode:
iPhone 6 @ 100% (RGB/8#) *
Artboard 1
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SIGN IN
Properties
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Document Properties
W: 26.46 cm
H: 47.06 cm
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Y: 0
Resolution: 72 pixels/inch
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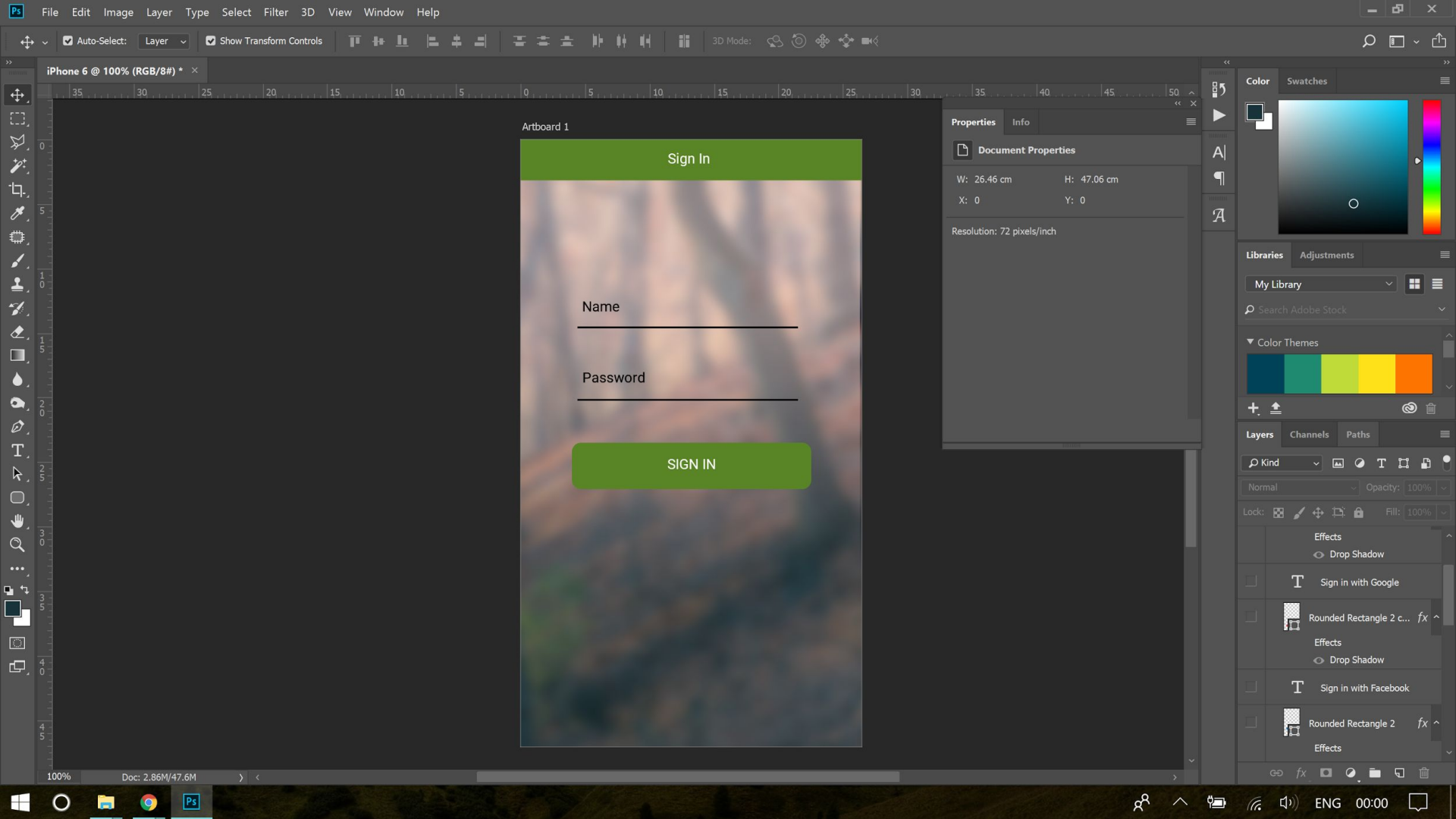
File Edit Image Layer Type Select Filter 3D View Window Help
Auto-Select: Layer
Show Transform Controls
3D Mode:
iPhone 6 @ 100% (RGB/8#) *
Artboard 1
Sign In
Name
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SIGN IN
Properties
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Document Properties
W: 26.46 cm
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X: 0
Y: 0
Resolution: 72 pixels/inch
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Drop Shadow
Sign in with Facebook
Rounded Rectangle 2
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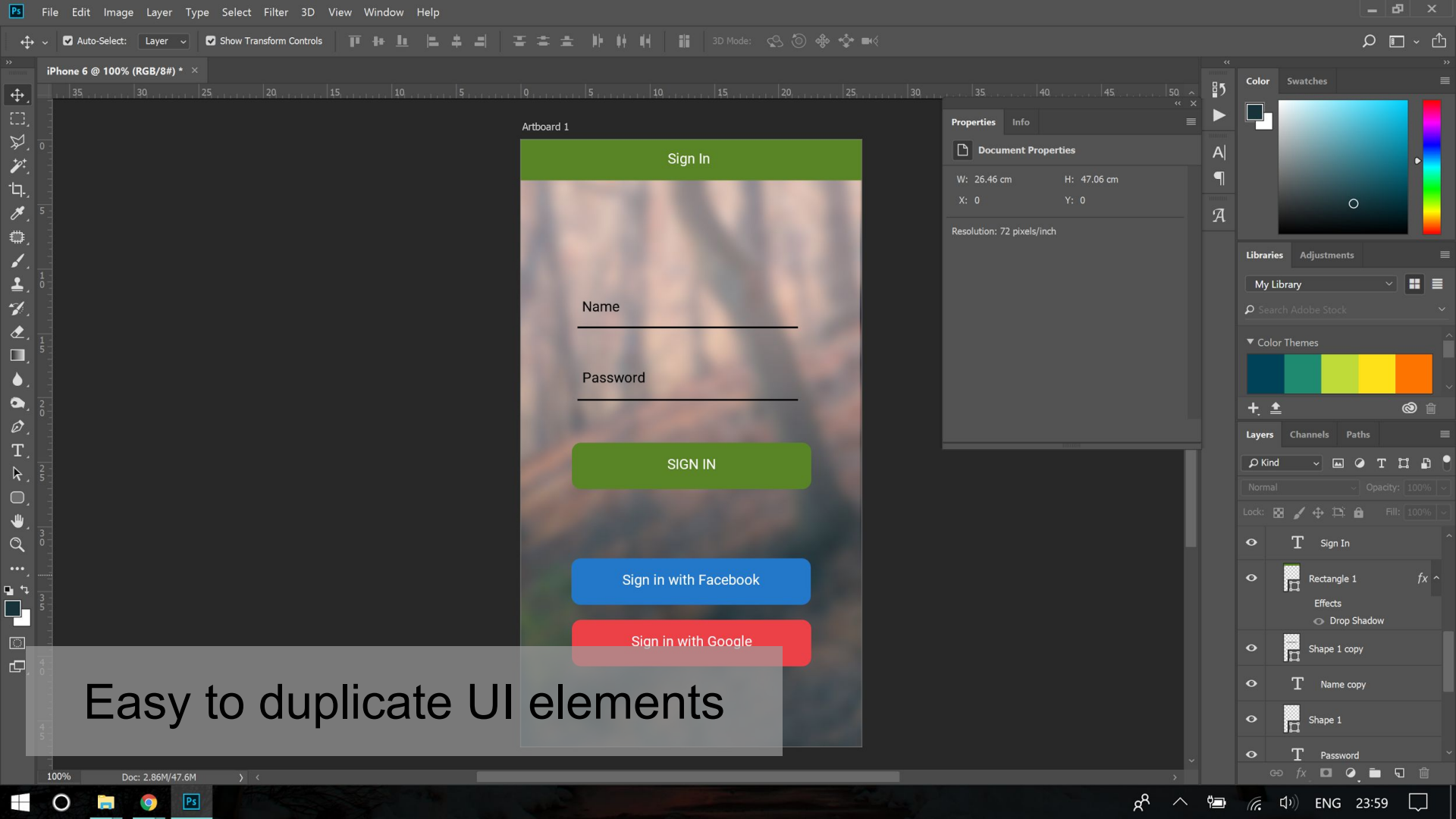
File Edit Image Layer Type Select Filter 3D View Window Help
iPhone 6 @ 100% (RGB/8#) *
Artboard 1
Sign In
Name
Password
SIGN IN
Sign in with Facebook
Sign in with Google
Properties
Info
Document Properties
W: 26.46 cm
H: 47.06 cm
X: 0
Y: 0
Resolution: 72 pixels/inch
Color
Swatches
Libraries
Adjustments
My Library
Color Themes
Layers
Channels
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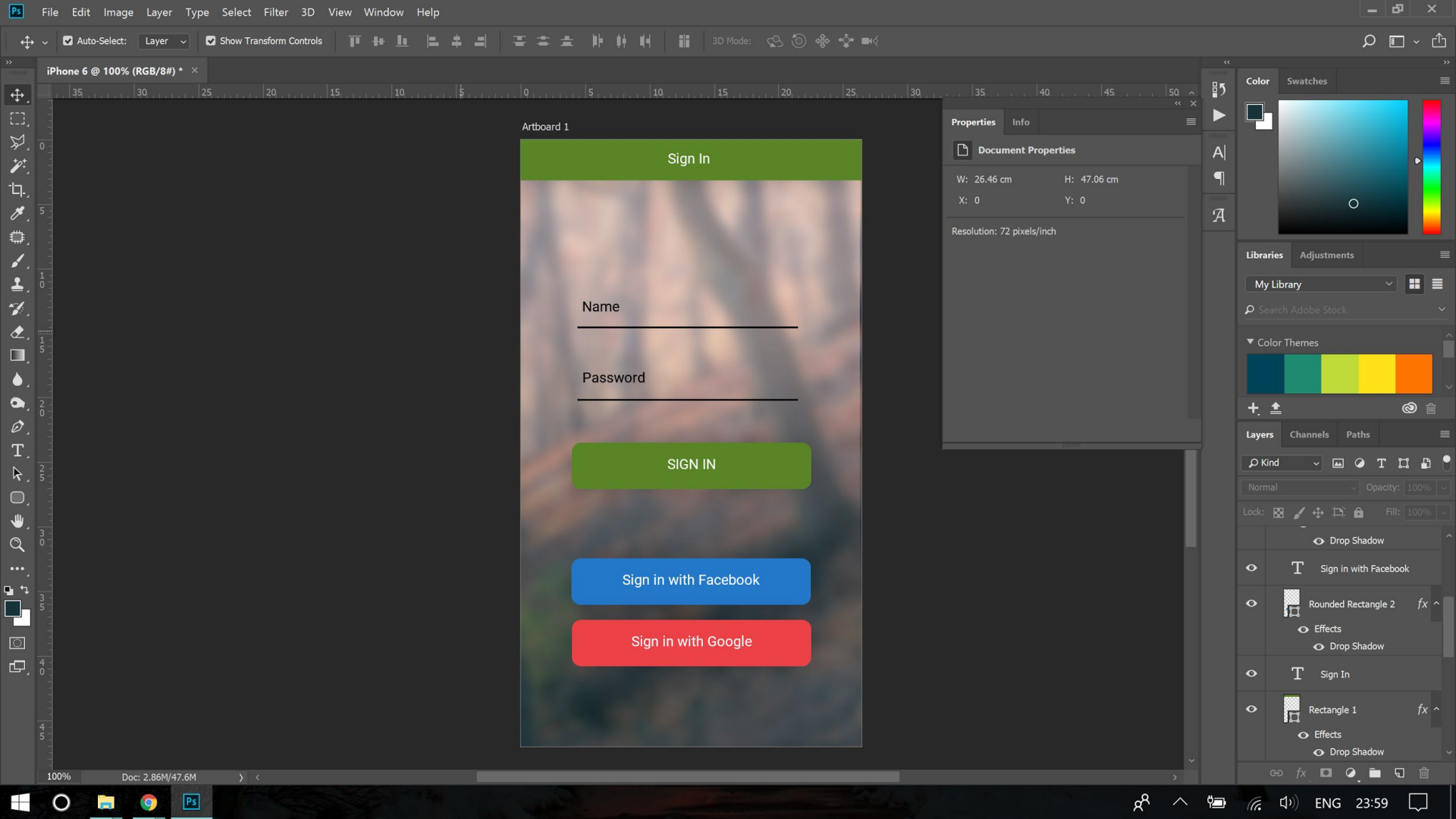
Sign In
Rectangle 1
Effects
Drop Shadow
Shape 1 copy
Name copy
Shape 1
Password
Easy to duplicate UI elements
100%
Doc: 2.86M/47.6M
ENG
23:59


File Edit Image Layer Type Select Filter 3D View Window Help
Auto-Select: Layer
Show Transform Controls
3D Mode:
iPhone 6 @ 100% (RGB/8#) *
Artboard 1
Sign In
Name
Password
SIGN IN
Sign in with Facebook
Sign in with Google
Properties
Info
Document Properties
W: 26.46 cm
H: 47.06 cm
X: 0
Y: 0
Resolution: 72 pixels/inch
Color
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Adjustments
My Library
Search Adobe Stock
Color Themes
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Opacity: 100%
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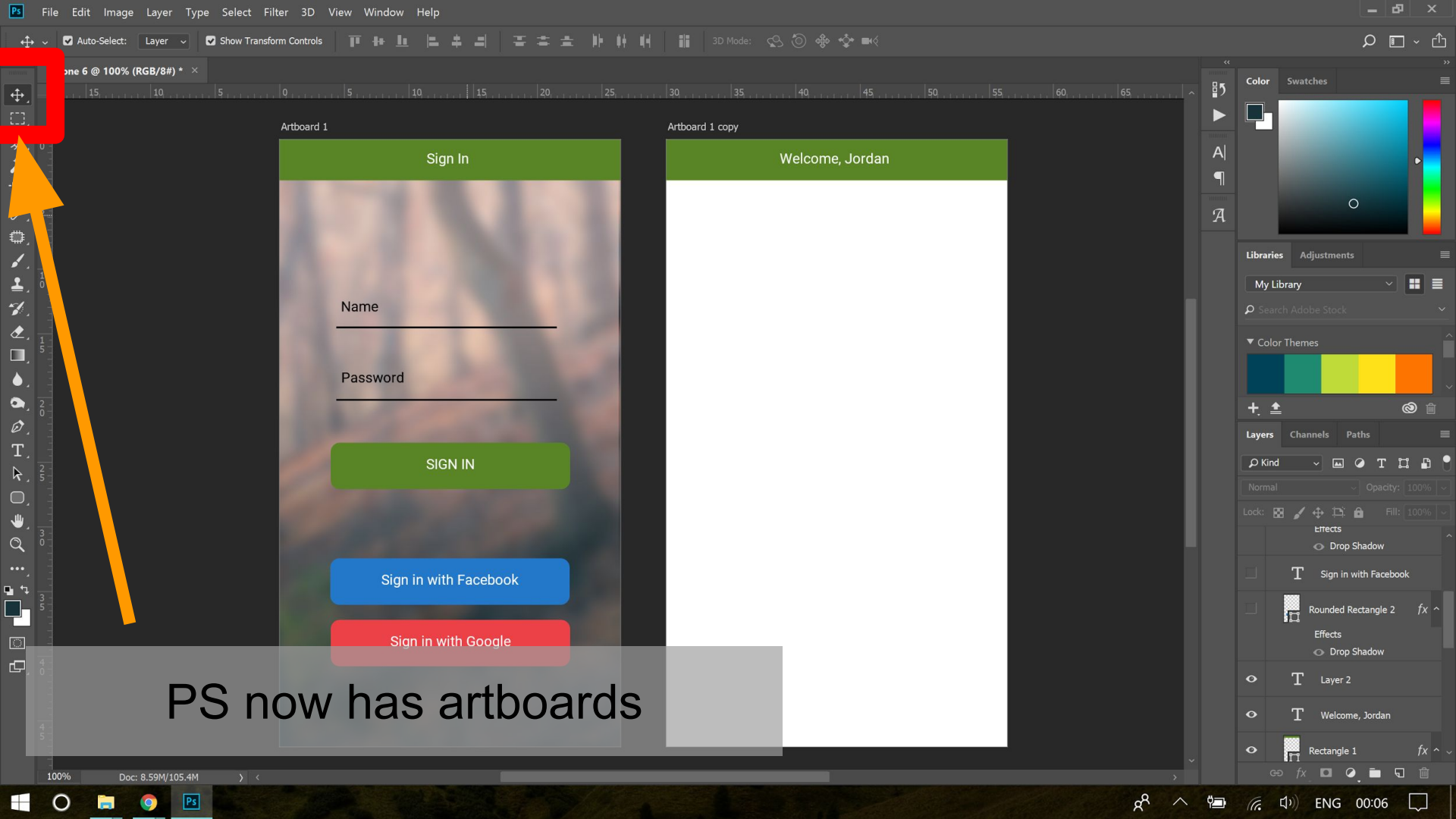
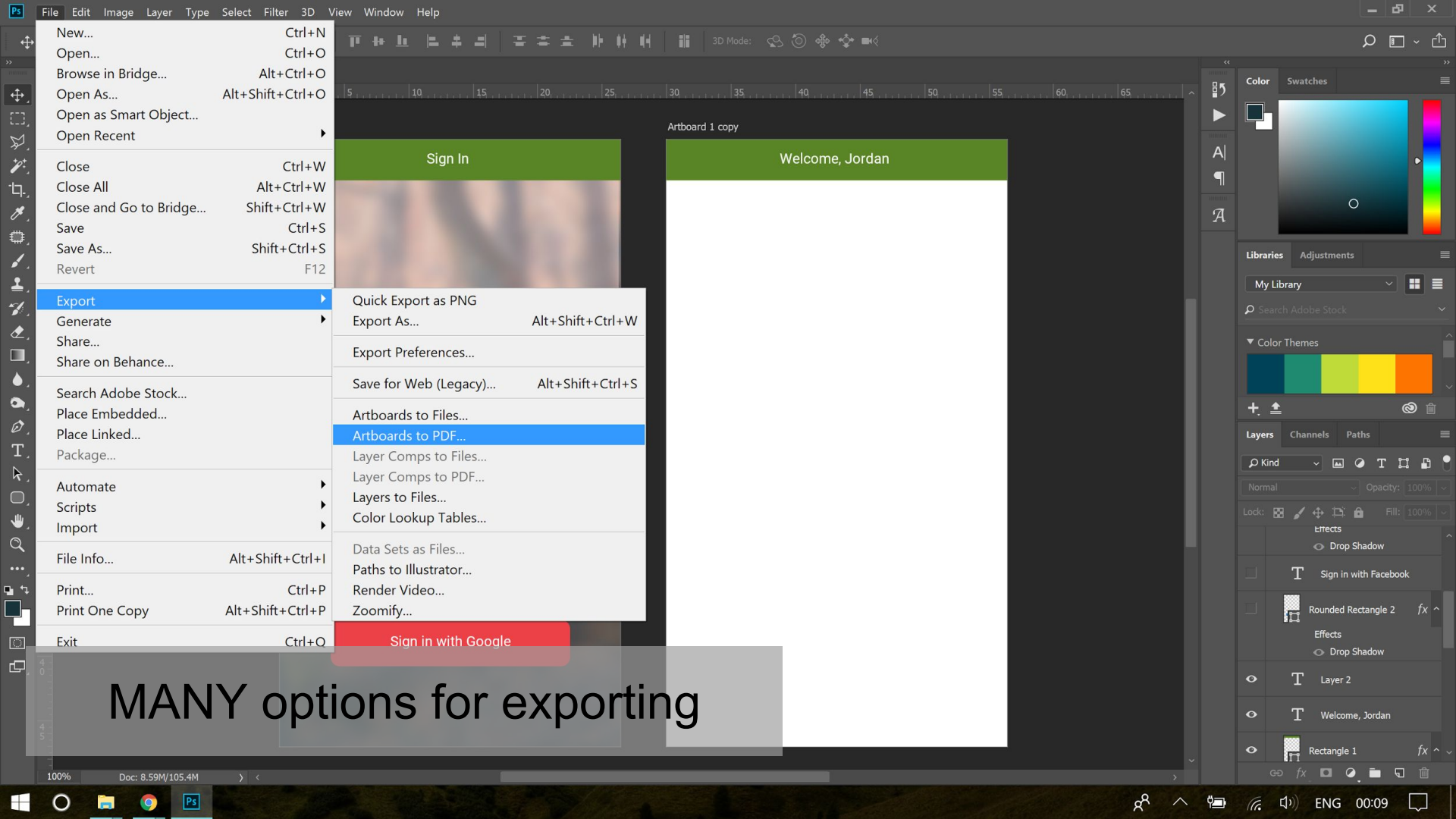
Fill: 100%
Drop Shadow
Sign in with Facebook
Rounded Rectangle 2
Effects
Drop Shadow
Sign In
Rectangle 1
Effects
Drop Shadow
100%
Doc: 2.86M/47.6M
ENG
23:59


File Edit Image Layer Type Select Filter 3D View Window Help
Auto-Select: Layer
Show Transform Controls
3D Mode:
Artboard 1
Sign In
Name
Password
SIGN IN
Sign in with Facebook
Sign in with Google
Artboard 1 copy
Welcome, Jordan
Color
Swatches
Libraries
Adjustments
My Library
Search Adobe Stock
Color Themes
Layers
Channels
Paths
Kind
Normal
Opacity: 100%
Lock:
Fill: 100%
Effects
Drop Shadow
Sign in with Facebook
Rounded Rectangle 2
Effects
Drop Shadow
Layer 2
Welcome, Jordan
Rectangle 1
100%
Doc: 8.59M/105.4M
ENG
00:06
PS now has artboards


File Edit Image Layer Type Select Filter 3D View Window Help
New... Ctrl+N
Open... Ctrl+O
Browse in Bridge... Alt+Ctrl+O
Open As... Alt+Shift+Ctrl+O
Open as Smart Object...
Open Recent
Close Ctrl+W
Close All Alt+Ctrl+W
Close and Go to Bridge... Shift+Ctrl+W
Save Ctrl+S
Save As... Shift+Ctrl+S
Revert F12
Export
Generate
Share...
Share on Behance...
Search Adobe Stock...
Place Embedded...
Place Linked...
Package...
Automate
Scripts
Import
File Info... Alt+Shift+Ctrl+I
Print... Ctrl+P
Print One Copy Alt+Shift+Ctrl+P
Exit Ctrl+Q
Quick Export as PNG
Export As... Alt+Shift+Ctrl+W
Export Preferences...
Save for Web (Legacy)... Alt+Shift+Ctrl+S
Artboards to Files...
Artboards to PDF...
Layer Comps to Files...
Layer Comps to PDF...
Layers to Files...
Color Lookup Tables...
Data Sets as Files...
Paths to Illustrator...
Render Video...
Zoomify...
Sign In
Sign in with Google
Artboard 1 copy
Welcome, Jordan
MANY options for exporting

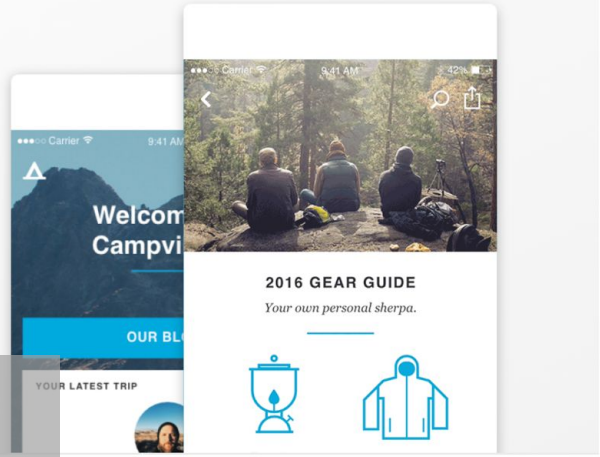
Time: About 8 minutes

Adobe XD

Let's design an app.

Start with the in-app tutorial to design your first app, or select a layout below to explore on your own.

Begin Tutorial



Open App, select device

Start a new design.

iPhone 6/7/8	iPad	Web 1920	Custom Size
375 × 667 px	768 × 1024 px	1920 × 1080 px	W ____ H ____

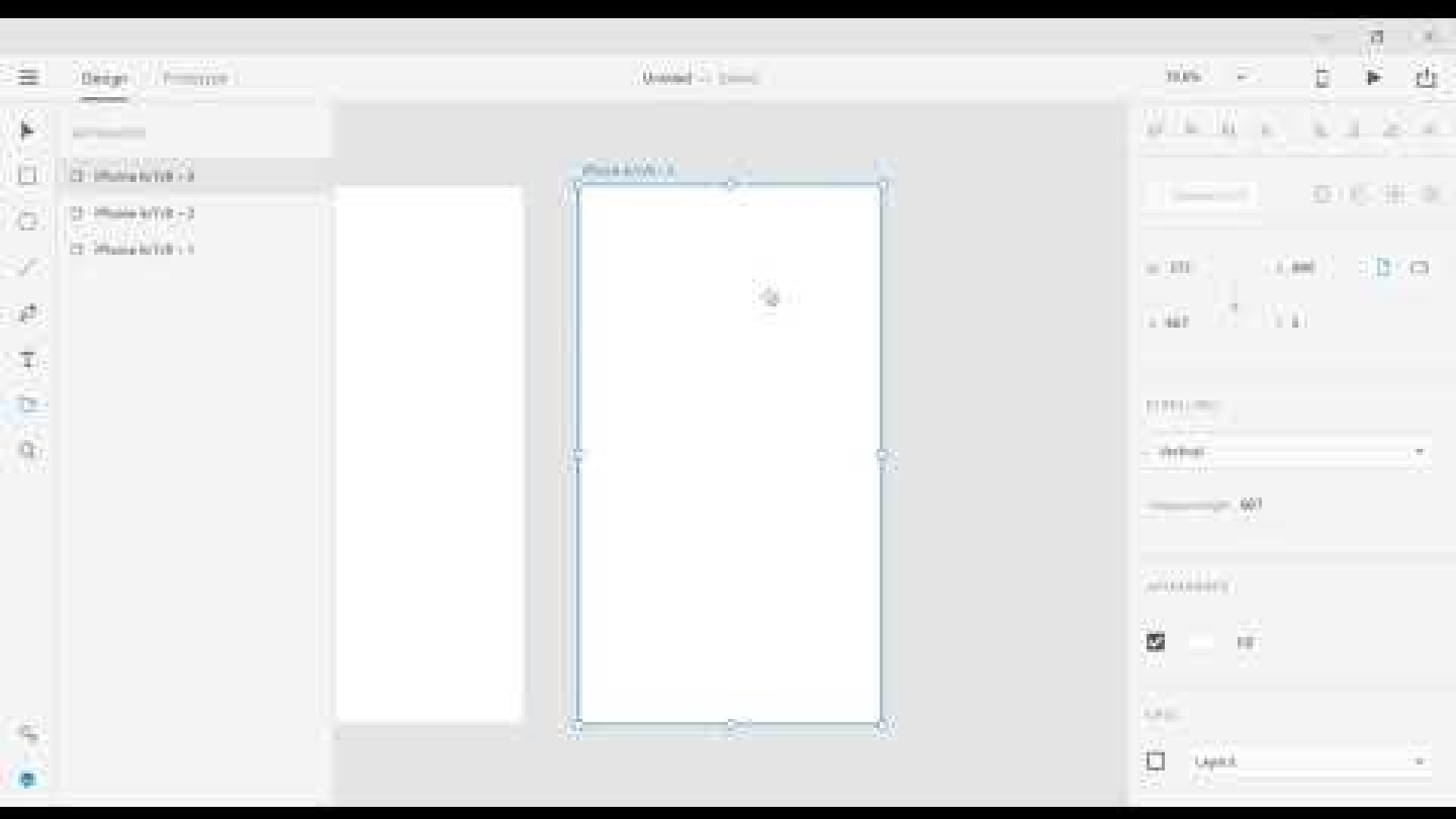
UI Kits

- Apple iOS
- Google Material
- Microsoft Windows
- Wireframes

Resources

- What's New
- Learn & Support
- Provide Feedback
- Release Notes

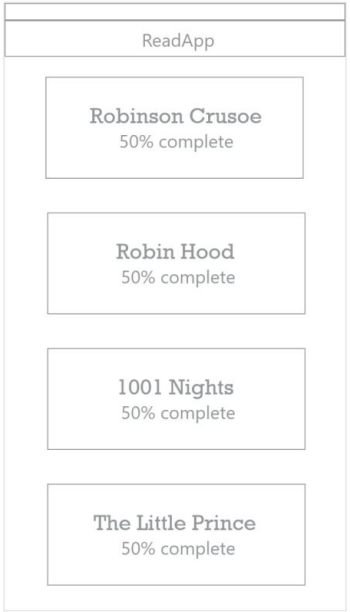
ENG 21:47



Lecture - XD Example

Nov 19, 2017 10:54 PM

Sign In



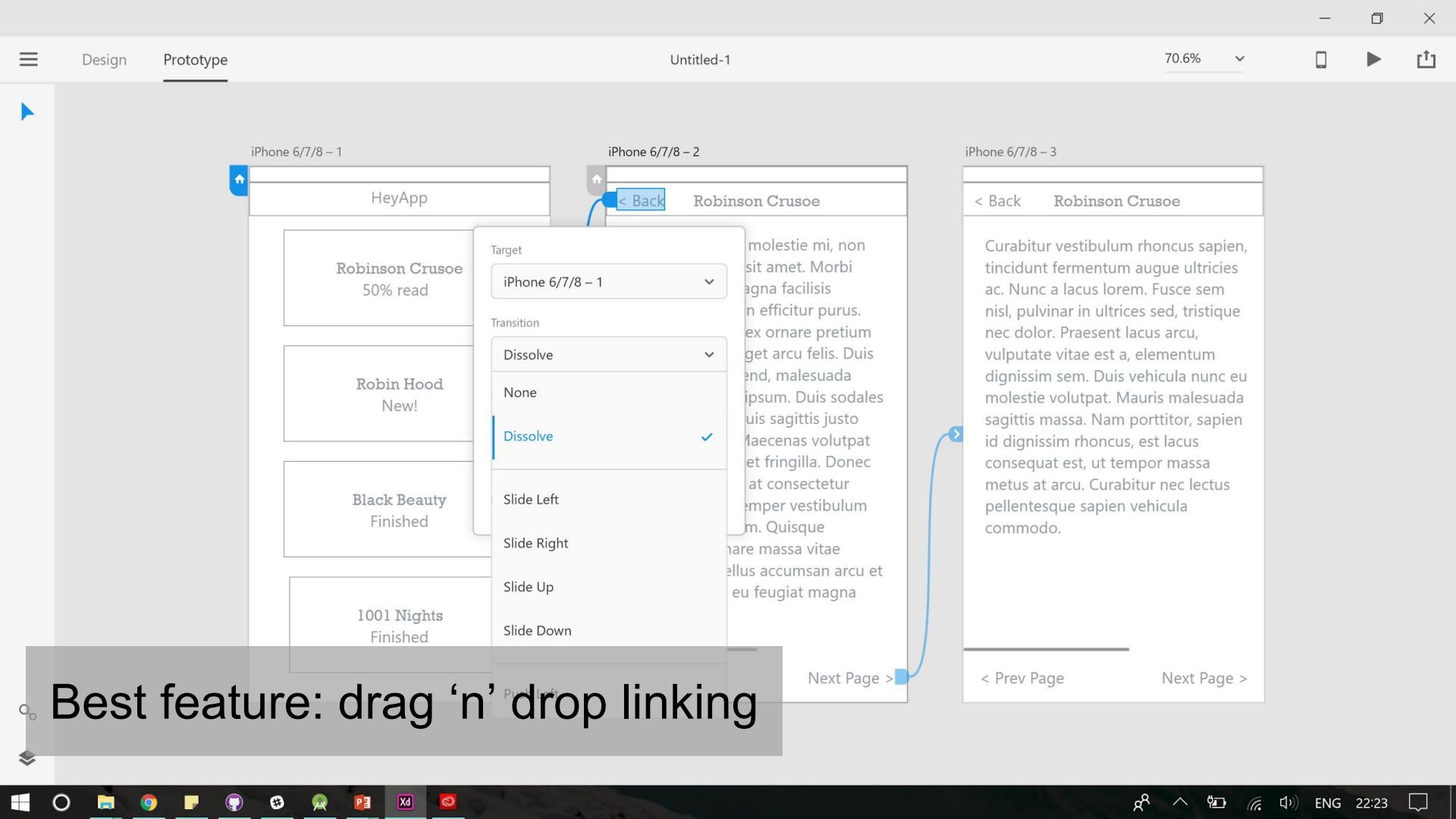
Share the prototype with your team members:

https://xd.adobe.com/view/ad036d9e-54c8-4678-844f-95c078fea4c2

Report Abuse

1 of 3

Made with Adobe XD


Design
Prototype
Untitled-1
70.6%
iPhone 6/7/8 – 1
HeyApp
Robinson Crusoe
50% read
Robin Hood
New!
Black Beauty
Finished
1001 Nights
Finished
Target
iPhone 6/7/8 – 1
Transition
Dissolve
None
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Slide Left
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iPhone 6/7/8 – 2
< Back
Robinson Crusoe
molestie mi, non
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llus accumsan arcu et
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Next Page >
iPhone 6/7/8 – 3
< Back
Robinson Crusoe
Curabitur vestibulum rhoncus sapien, tincidunt fermentum augue ultricies ac. Nunc a lacus lorem. Fusce sem nisl, pulvinar in ultrices sed, tristique nec dolor. Praesent lacus arcu, vulputate vitae est a, elementum dignissim sem. Duis vehicula nunc eu molestie volutpat. Mauris malesuada sagittis massa. Nam porttitor, sapien id dignissim rhoncus, est lacus consequat est, ut tempor massa metus at arcu. Curabitur nec lectus pellentesque sapien vehicula commodo.
< Prev Page
Next Page >
Best feature: drag ‘n’ drop linking
ENG
22:23

helpx.adobe.com/xd.html

Secure | https://helpx.adobe.com/support/xd.html

Bookmarks | WAVE Web Accessibi | Law of Computer Tec | CMU Google Drive | CMU Dropbox | Exemplar Portfolios | UCRE Fall 2015 | Skype | HCI for Tech Execs | Other bookmarks

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Learn what's new in XD.

User Guide

Get quick answers and step-by-step instructions.

Tutorials

Find tutorials to help you expand your skills

Was this helpful?

Yes | No

Good places to find help

iOS-11-Photoshop.zip
115 MB

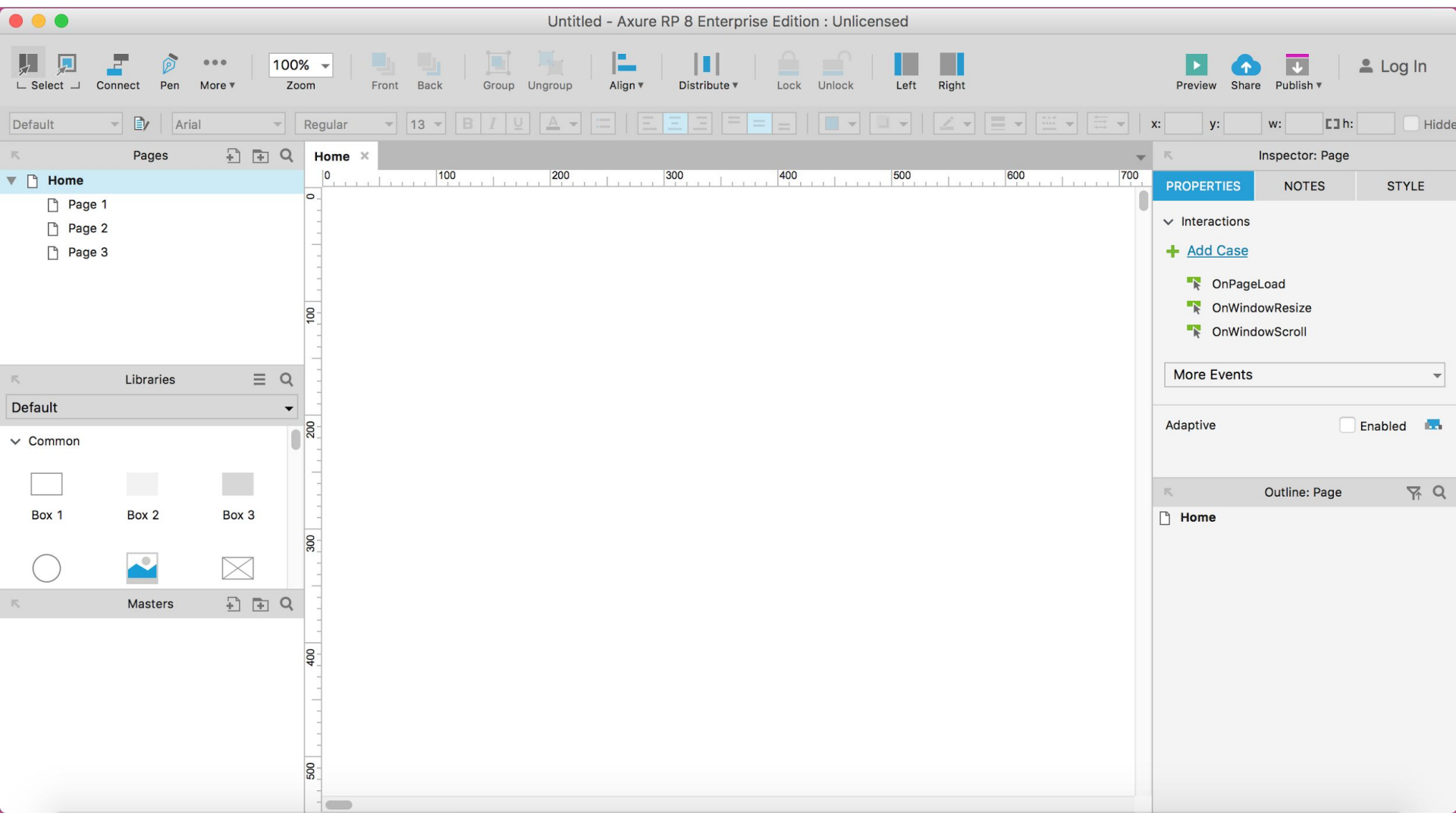
Show all

ENG 21:59

Time: 7:56 minutes

axure

Axure RP 8
File
Edit
View
Publish
Team
Account
Window
Help
Mon 1:30:33 AM
Welcome to Axure RP 8
Log In
WELCOME TO AXURE RP
NEW FILE
OPEN FILE
How to Axure RP?
GETTING STARTED TOUR >
Don't show this at startup.
Close


Untitled - Axure RP 8 Enterprise Edition : Unlicensed
Select
Connect
Pen
More
100%
Zoom
Front
Back
Group
Ungroup
Align
Distribute
Lock
Unlock
Left
Right
Preview
Share
Publish
Log In
Default
Arial
Regular
13
x:
y:
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h:
Hidde
Pages
Home
Page 1
Page 2
Page 3
Libraries
Default
Common
Box 1
Box 2
Box 3
Masters
Home
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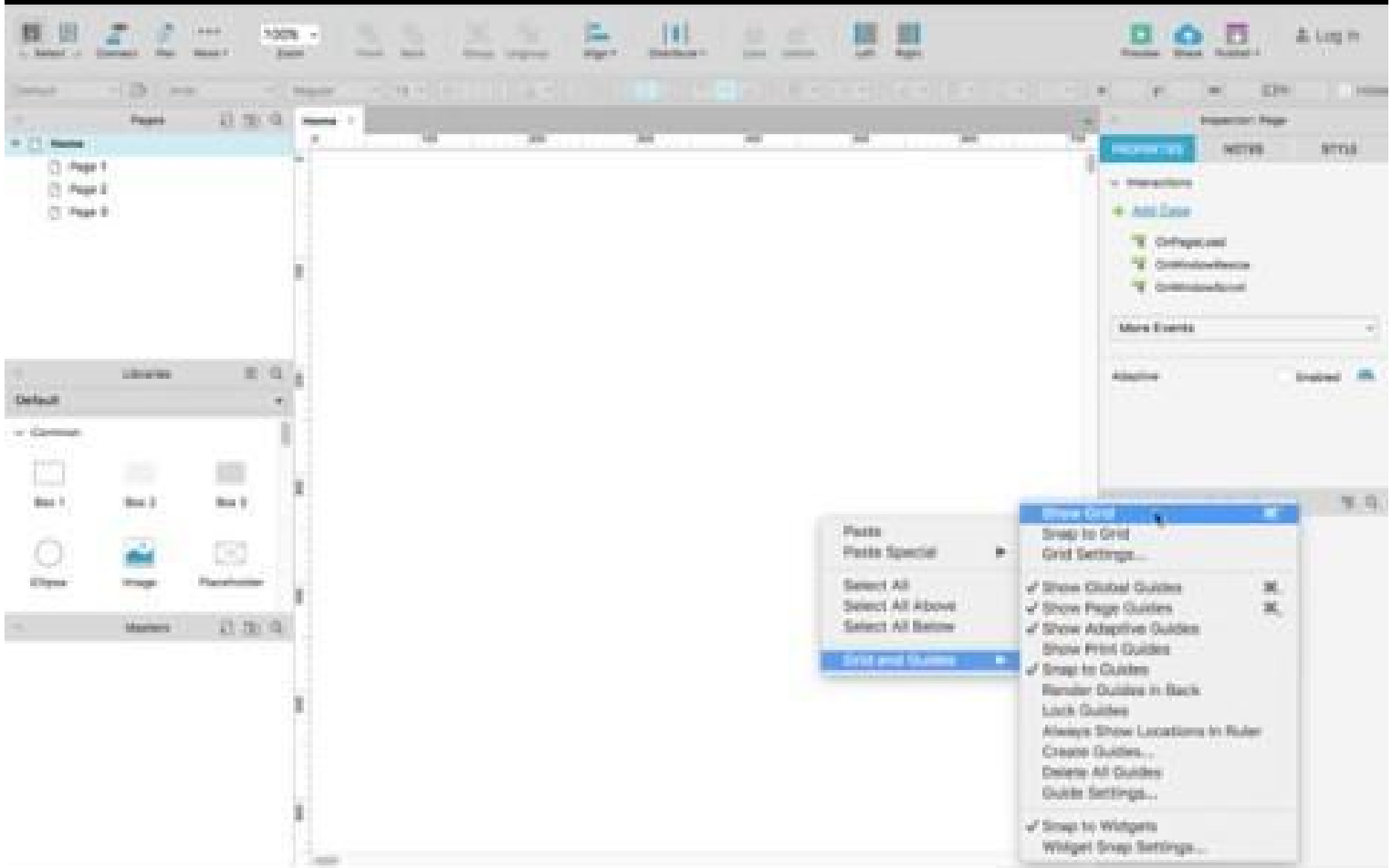
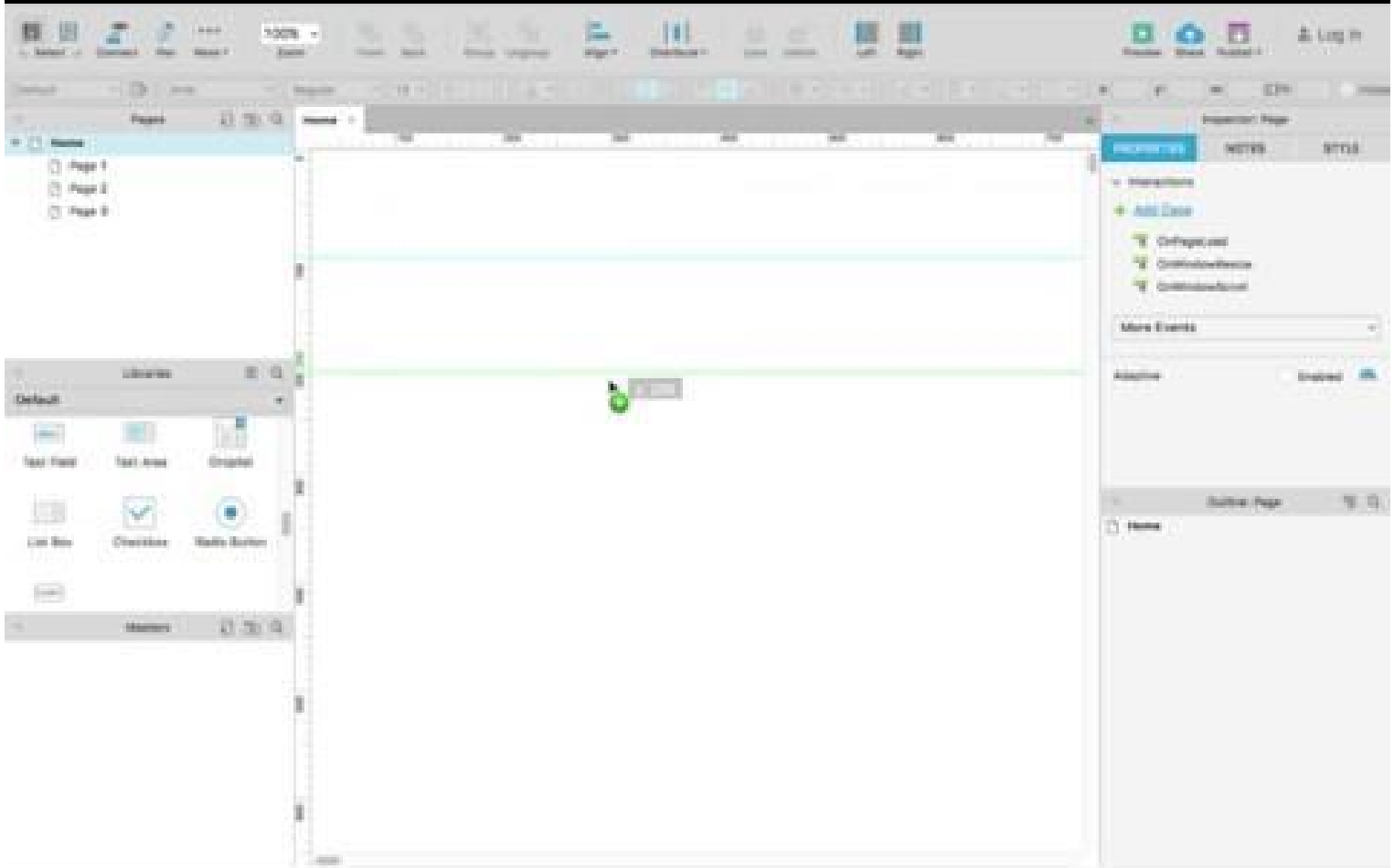
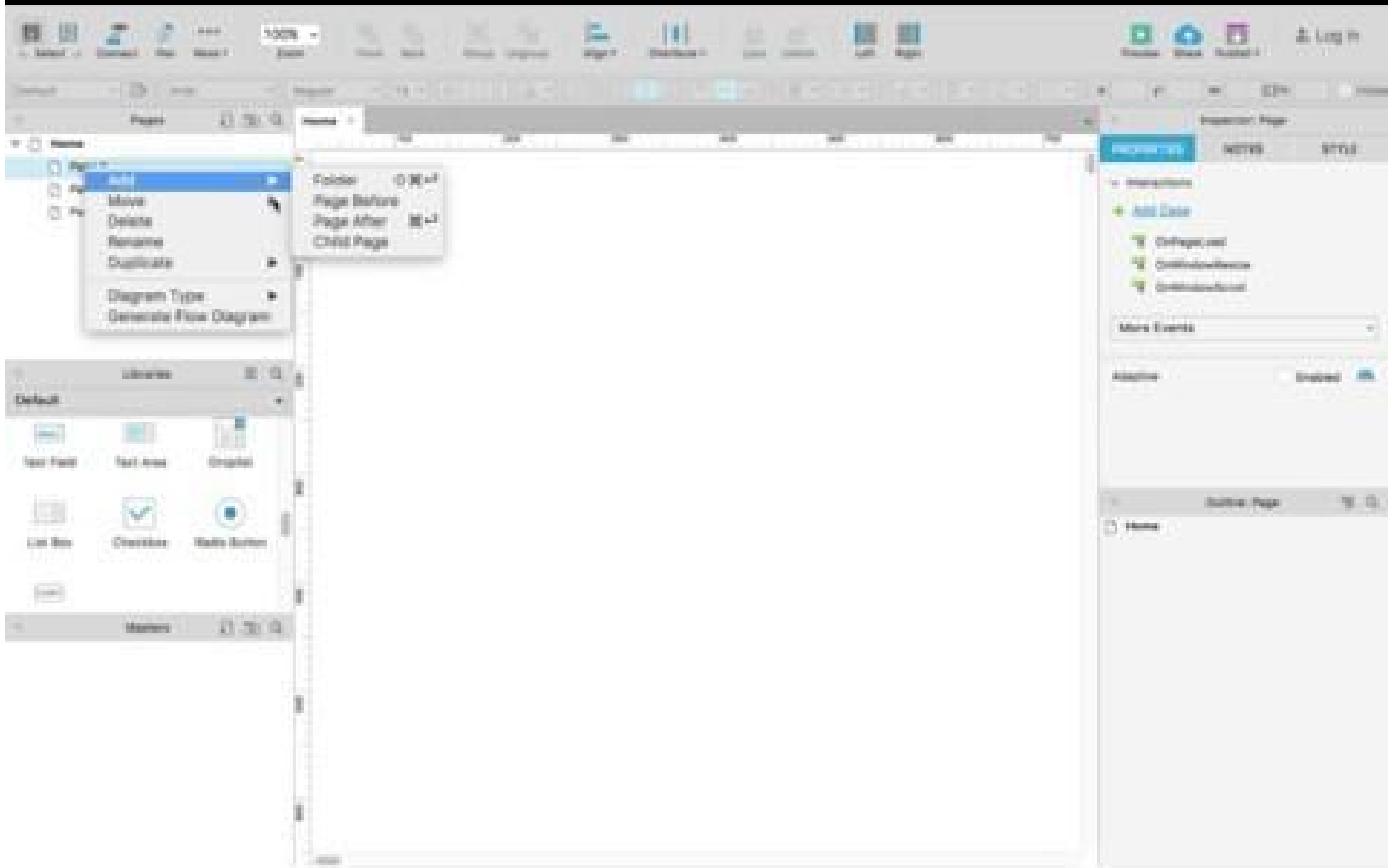
300
400
500
600
700
Inspector: Page
PROPERTIES
NOTES
STYLE
Interactions
Add Case
OnPageLoad
OnWindowResize
OnWindowScroll
More Events
Adaptive
Enabled
Outline: Page
Home


Paste
Paste Special
Select All
Select All Above
Select All Below
Grid and Guides
Show Grid
Snap to Grid
Grid Settings...
Show Global Guides
Show Page Guides
Show Adaptive Guides
Show Print Guides
Snap to Guides
Render Guides in Back
Lock Guides
Always Show Locations in Ruler
Create Guides...
Delete All Guides
Guide Settings...
Snap to Widgets
Widget Snap Settings...




Add
Move
Delete
Rename
Duplicate
Diagram Type
Generate Flow Diagram
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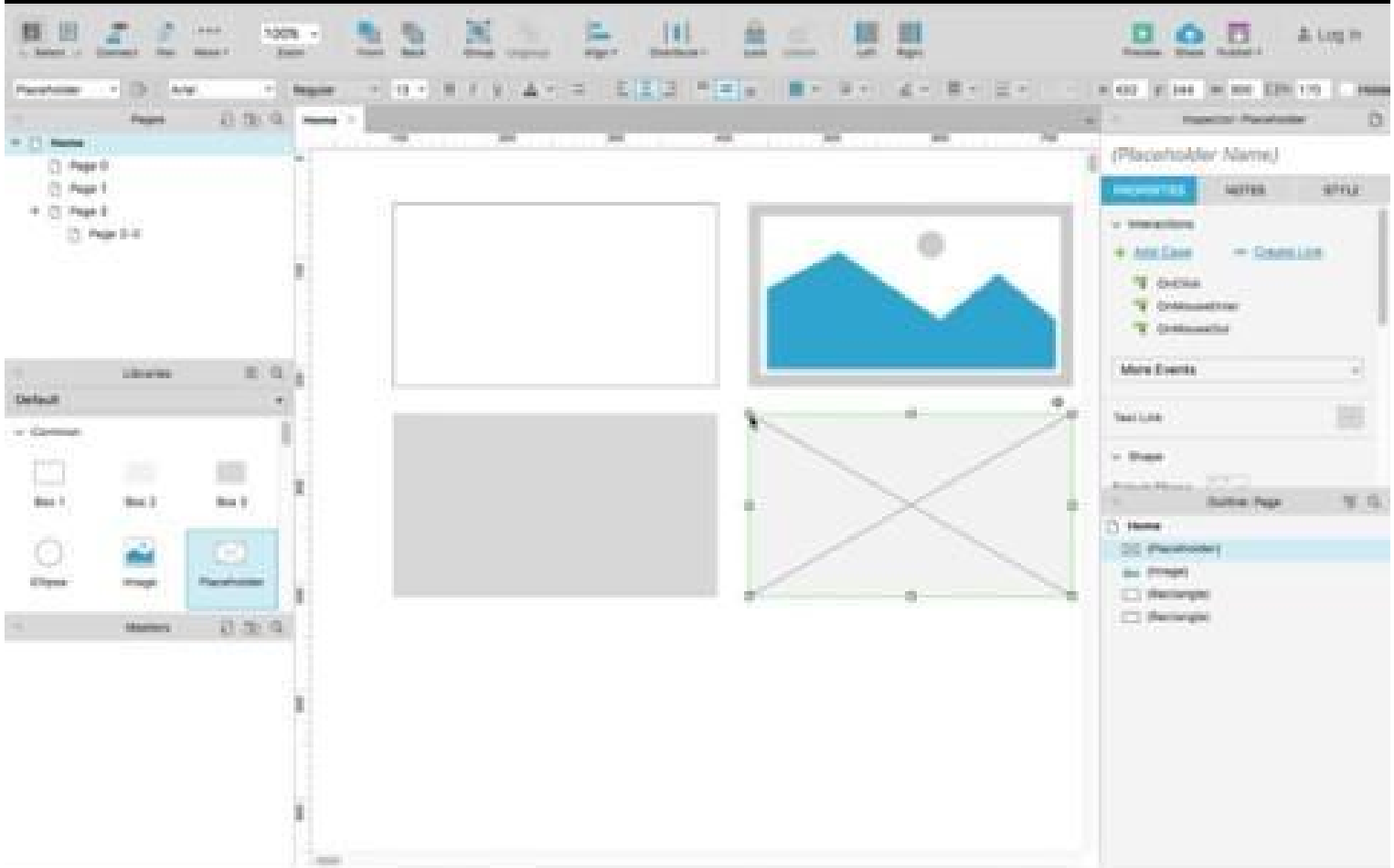
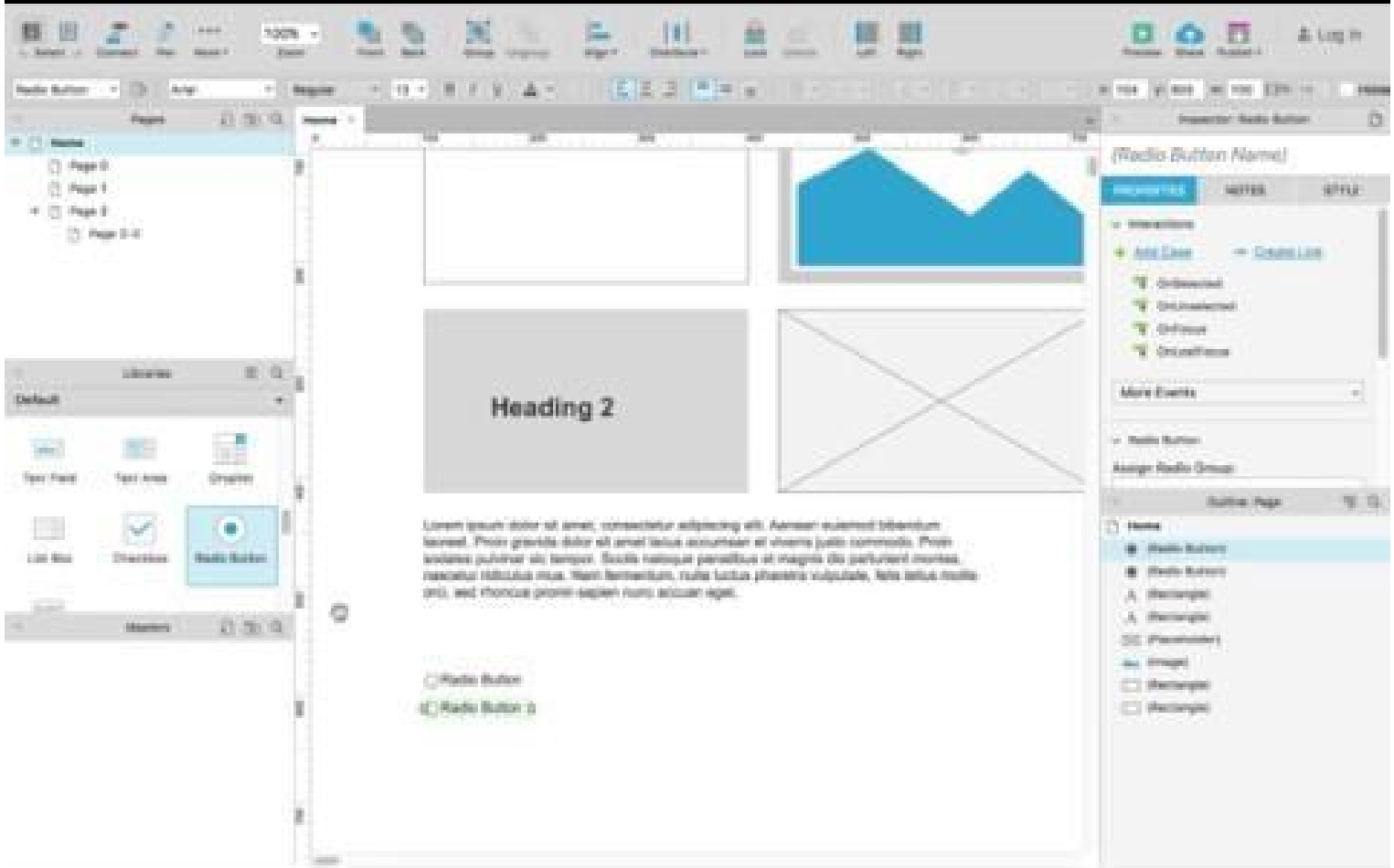
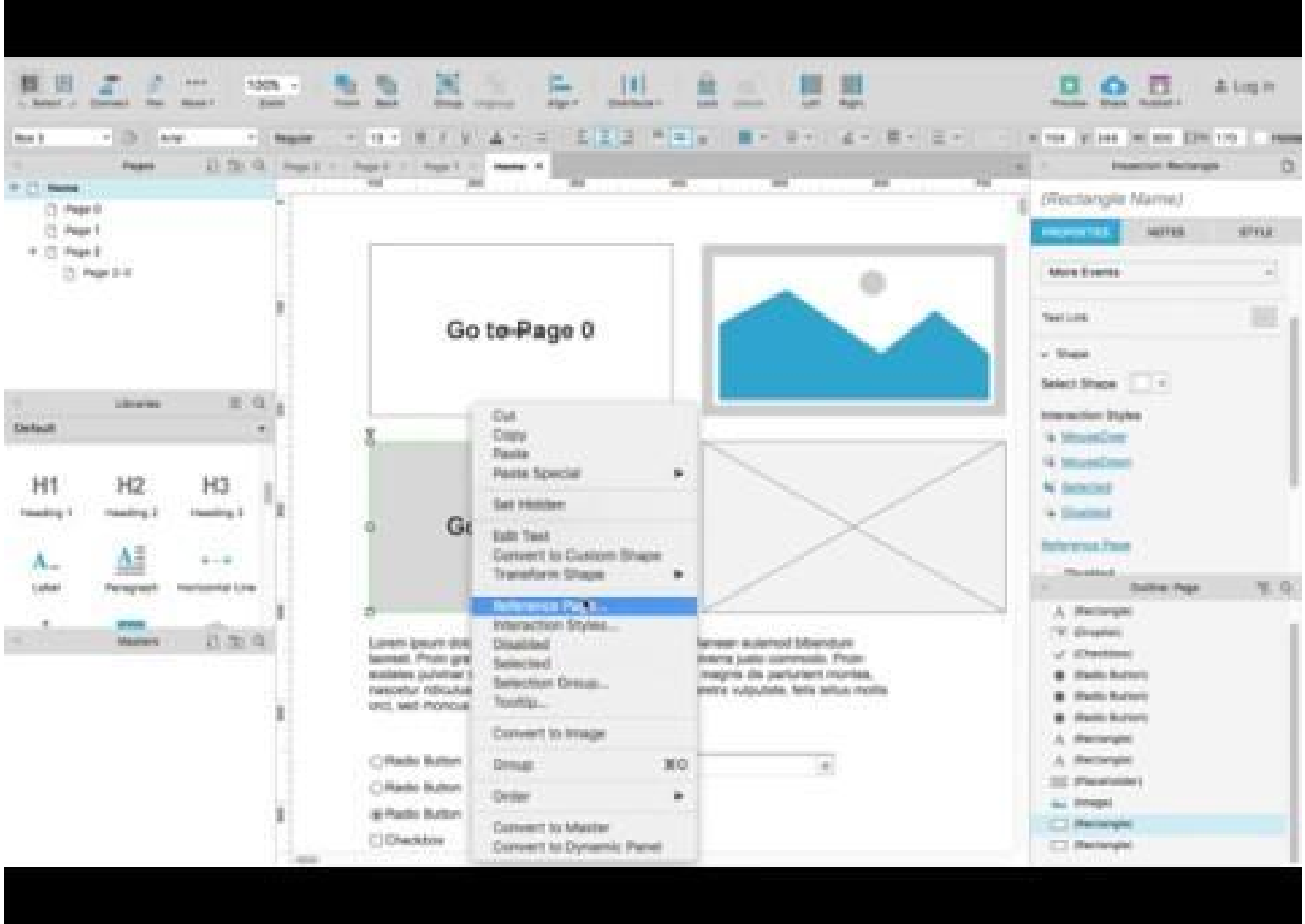
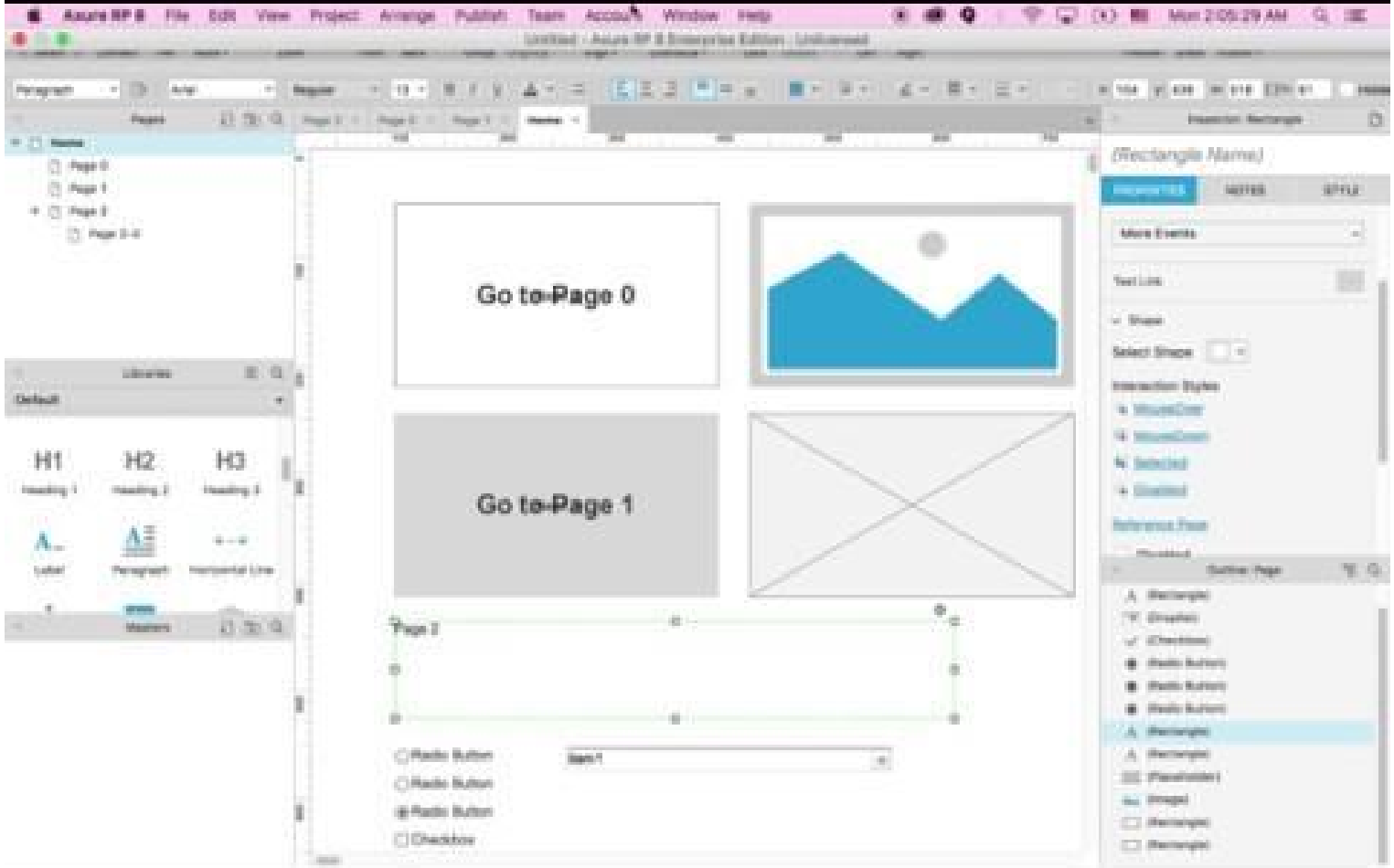
Page Before
Page After
Child Page
Default




Heading 2
Radio Button
Radio Button 1
(Radio Button Name)


Go to Page 0
Cut
Copy
Paste
Paste Special
Set Hidden
Edit Text
Convert to Custom Shape
Transform Shape
Reference Page...
Interaction Styles...
Disabled
Selected
Selection Group...
Tooltip...
Convert to Image
Group
Order
Convert to Master
Convert to Dynamic Panel
(Rectangle Name)
More Events
Select Shape
Interaction Styles
H1
H2
H3
Radio Button
Checkbox

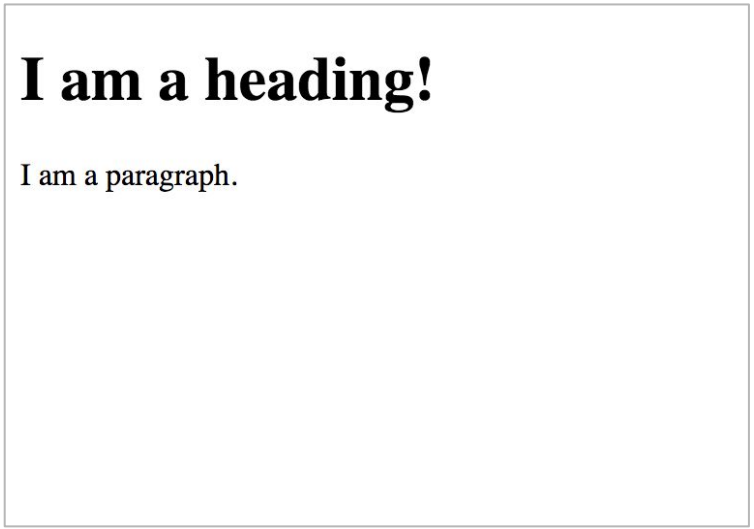

Go to Page 0
Go to Page 1
Page 2
Radio Button
Radio Button
Radio Button
Checkbox
H1
H2
H3

HTML/CSS

CSS HTML Javascript

HTML 101

```
<!DOCTYPE html>
<html>
    <head>
        <title>Page Title</title>
    </head>
    <body>
        <h1>I am a heading!</h1>
        <p>I am a paragraph.</p>
    </body>
</html>
```



HTML 101 - Tags

```
<!DOCTYPE html>
<html>
    <head>
        <title>Page Title</title>
    </head>
    <body>
        <h1>I am a heading!</h1>
        <p>I am a paragraph.</p>
    </body>
</html>
```

<tag>content goes here</tag>

-
- <h1><h2>...<h6>
- <p>
- <img>
- <input>
- <a>

HTML 101 - CSS

```
<!DOCTYPE html>
<html>
    <head>
        <title>Page Title</title>
        <link rel="stylesheet" type="text/css" href="theme.css">
    </head>
    <body>
        <h1>I am a heading!</h1>
        <p>I am a paragraph.</p>
    </body>
</html>
```

HTML 101 - CSS Demo

```
body {
    background-color: yellow;
}
h1 {
    color: blue;
}
p {
    color: red;
}
```

HTML 101 - CSS Selectors

- Use generic html tag names to address all applicable
- .class_name
- Use the class names and ids to address specific items
- #id_name

HTML 101 - CSS Selectors

- height
- width
- font (type, size, color, weight)
- color
- padding
- margins
- background-images
- vertical/horizontal spacing

- positioning (item, text)
- shadowing
- display properties
- layering of objects
- opacity
- floating/arranging objects
- responsive design

  and much much more …

More CSS Example

```
#id_name {
    height: 100px;
    width: 100px;
    padding: 10px;
    background-color: red;
    text-align: center;
}
```

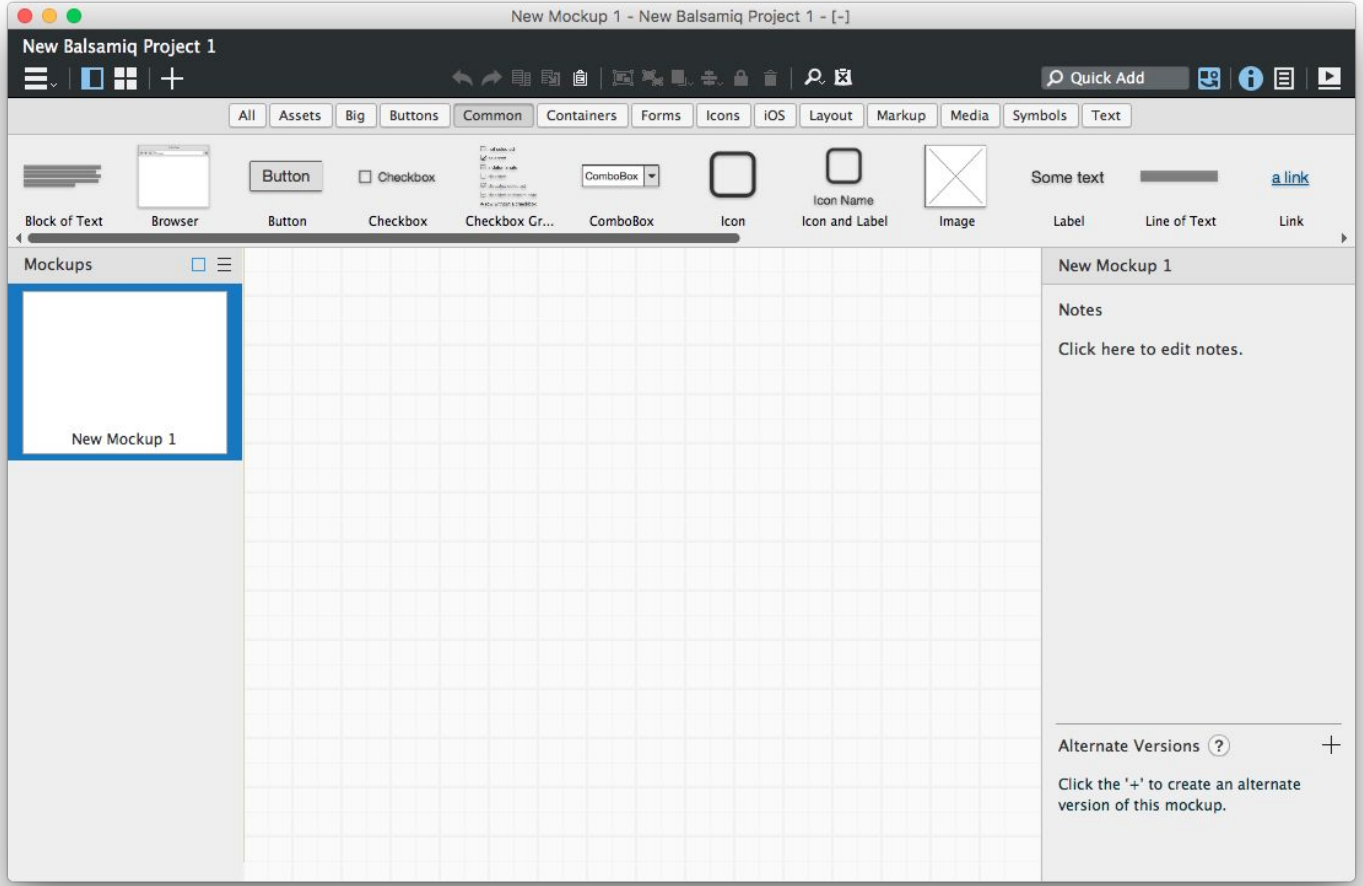
Text Editors

- Sublime Text
- Brackets
- Adobe Dreamweaver
- Terminal - Vim, Emacs

Balsamiq

What is Balsamiq?

- Purposely simple wire framing
  - Art style is hand drawn
  - Makes designers think only about the UX, not about color, animation, etc
  - Makes testers think only about the UX as well
- Alright at making clickable prototypes
  - It has the functionality, but it’s not amazing
  - Can use weird presentation mode or export as interactable PDF
- If you need higher fidelity, you’ll have to change software
  - Transitioning from lo-fi to higher fidelity may be a lot of duplicated work


New Mockup 1 - New Balsamiq Project 1 - [-]
New Balsamiq Project 1
Quick Add
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iOS
Layout
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Symbols
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Browser
Button
Checkbox
Checkbox Gr...
ComboBox
Icon
Icon Name
Icon and Label
Image
Some text
Label
Line of Text
a link
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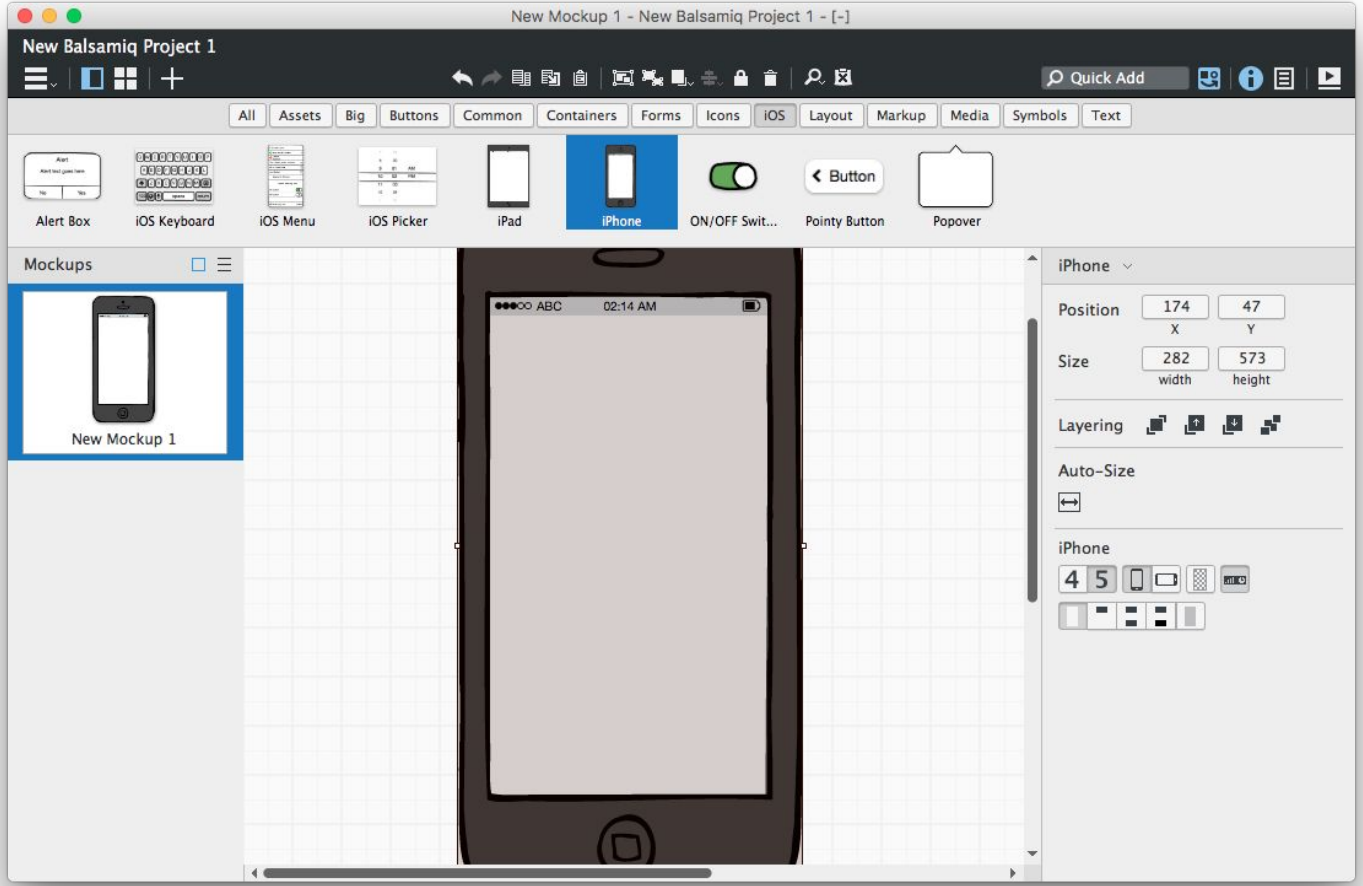
Notes
Click here to edit notes.
Alternate Versions
Click the '+' to create an alternate version of this mockup.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iOS Menu
iOS Picker
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Mockups
New Mockup 1
ABC
02:14 AM
iPhone
Position
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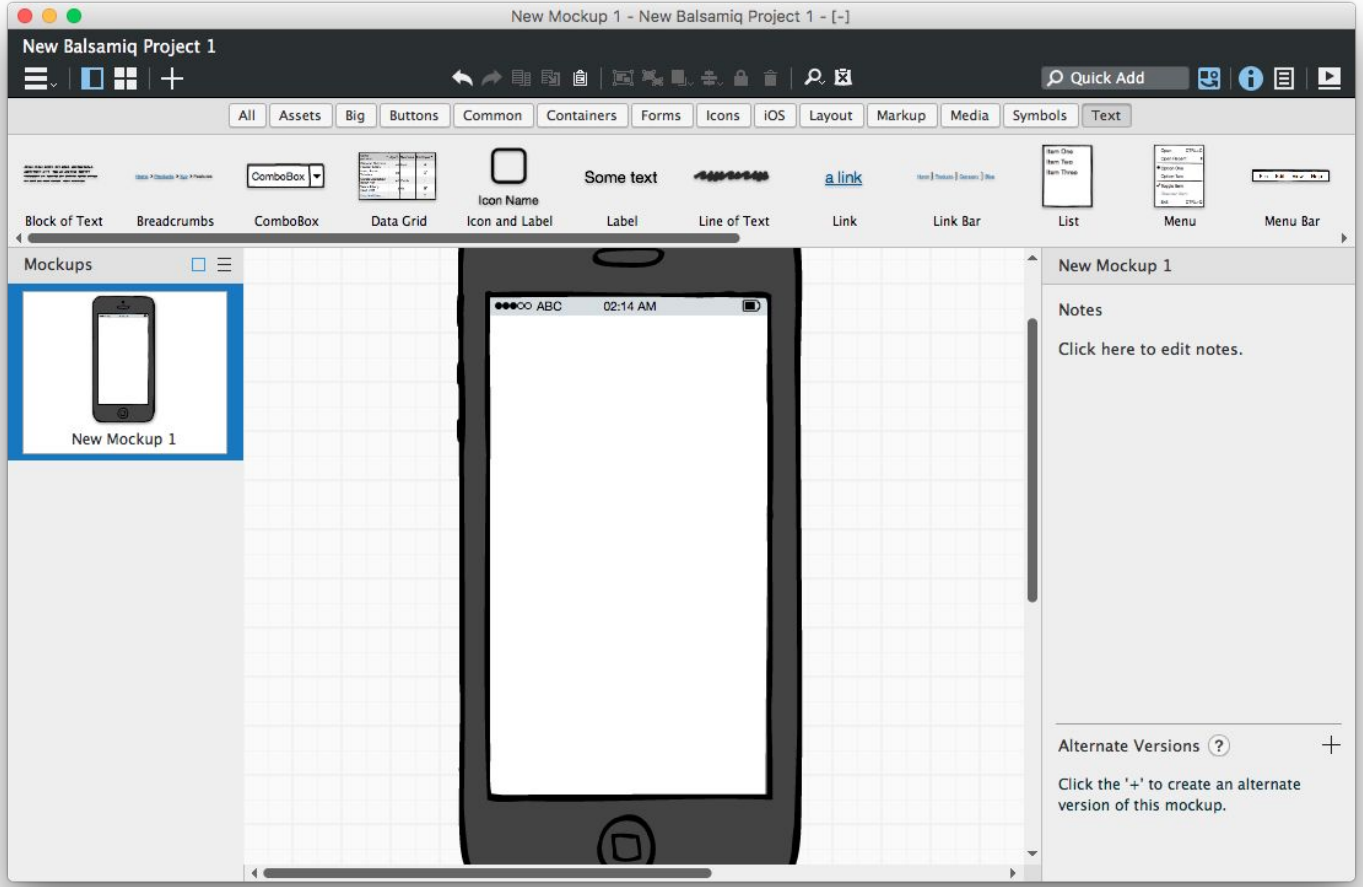
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Breadcrumbs
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Data Grid
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Icon and Label
Some text
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Line of Text
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Link Bar
List
Menu
Menu Bar
Mockups
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ABC
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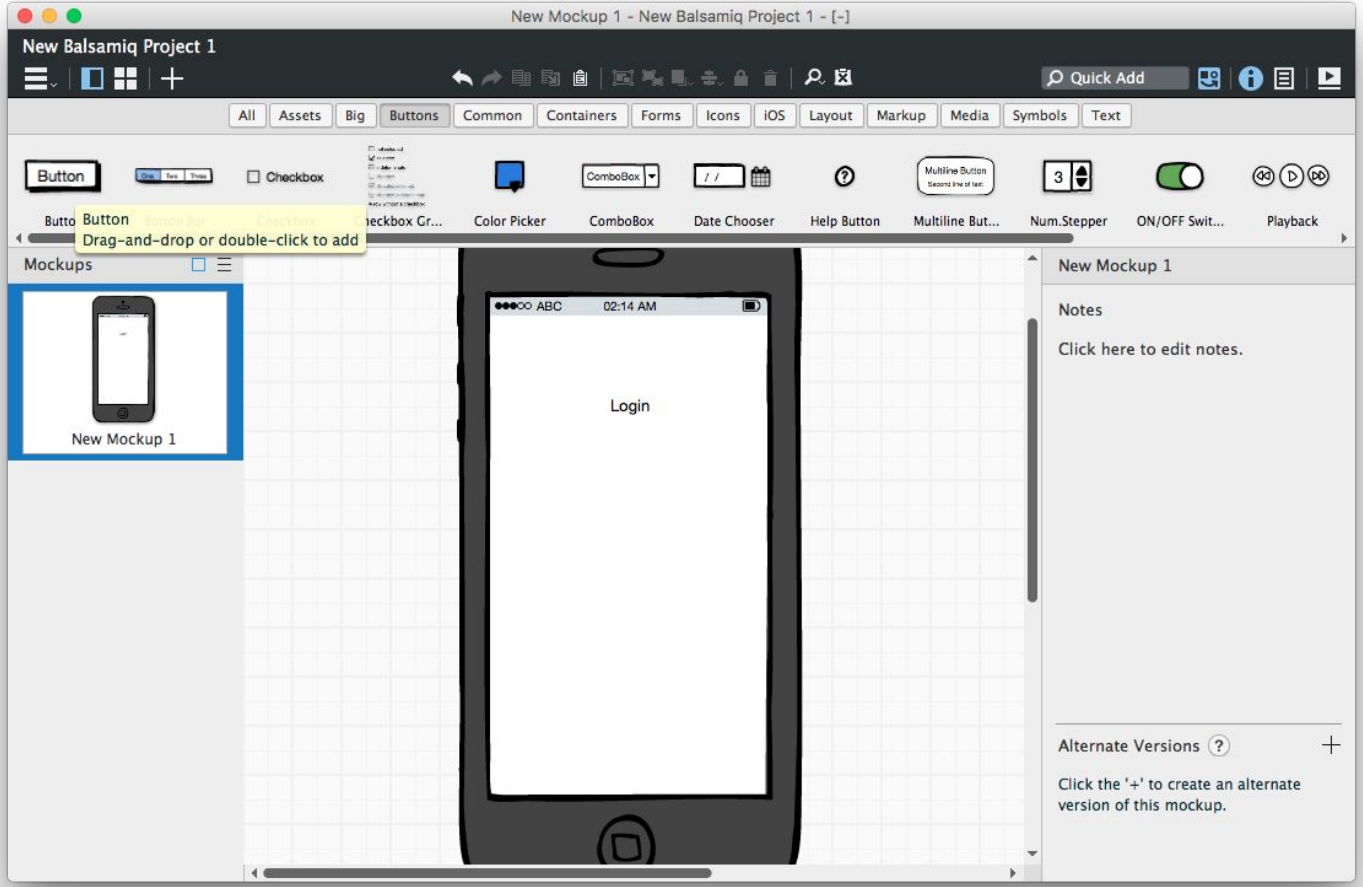
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Checkbox
Color Picker
ComboBox
Date Chooser
Help Button
Multiline But...
Num.Stepper
ON/OFF Swit...
Playback
Button
Drag-and-drop or double-click to add
Mockups
New Mockup 1
ABC
02:14 AM
Login
New Mockup 1
Notes
Click here to edit notes.
Alternate Versions
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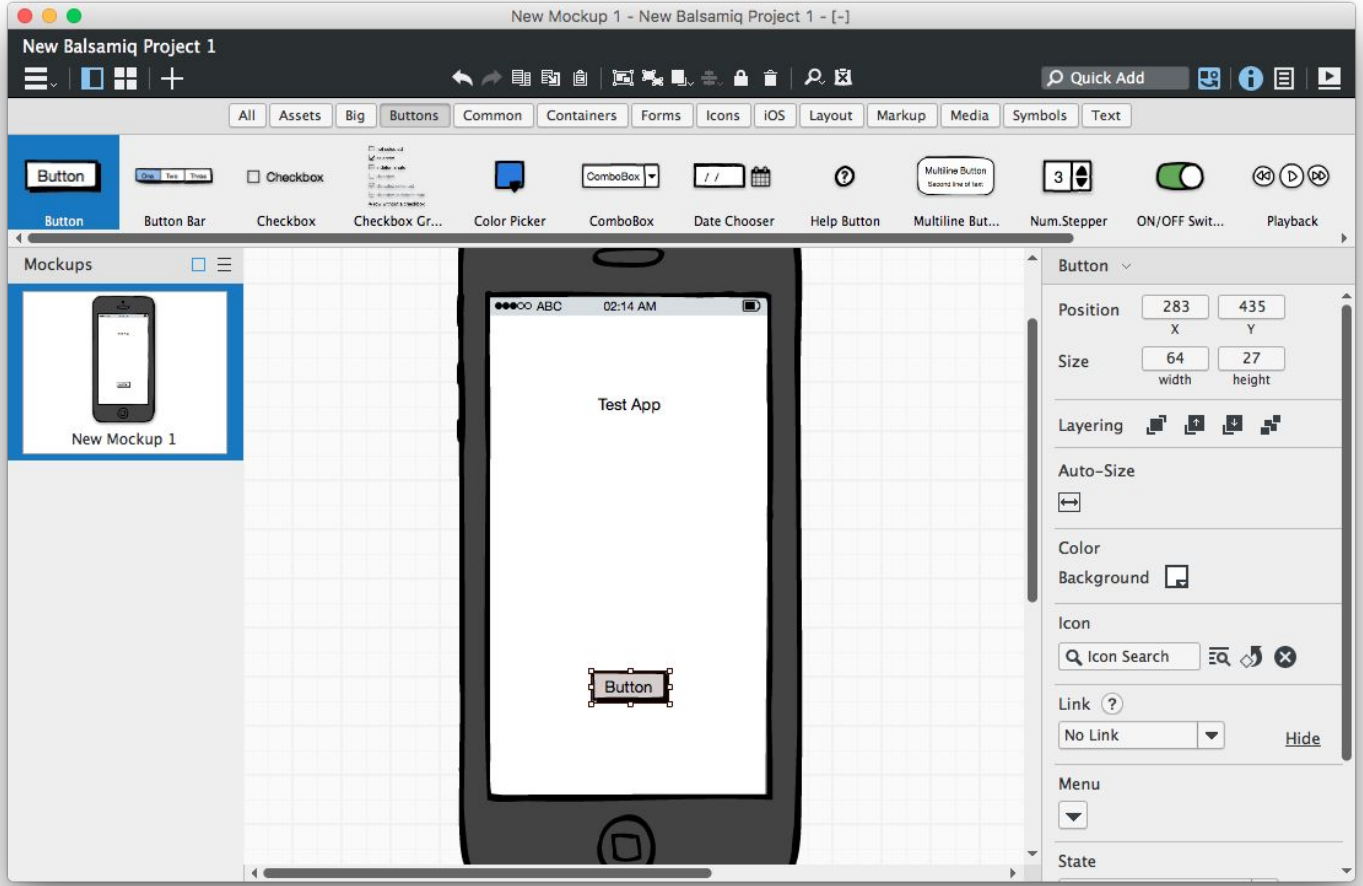
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Date Chooser
Help Button
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Playback
Mockups
New Mockup 1
ABC
02:14 AM
Test App
Button
Button
Position
283
X
435
Y
Size
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27
height
Layering
Auto-Size
Color
Background
Icon
Icon Search
Link
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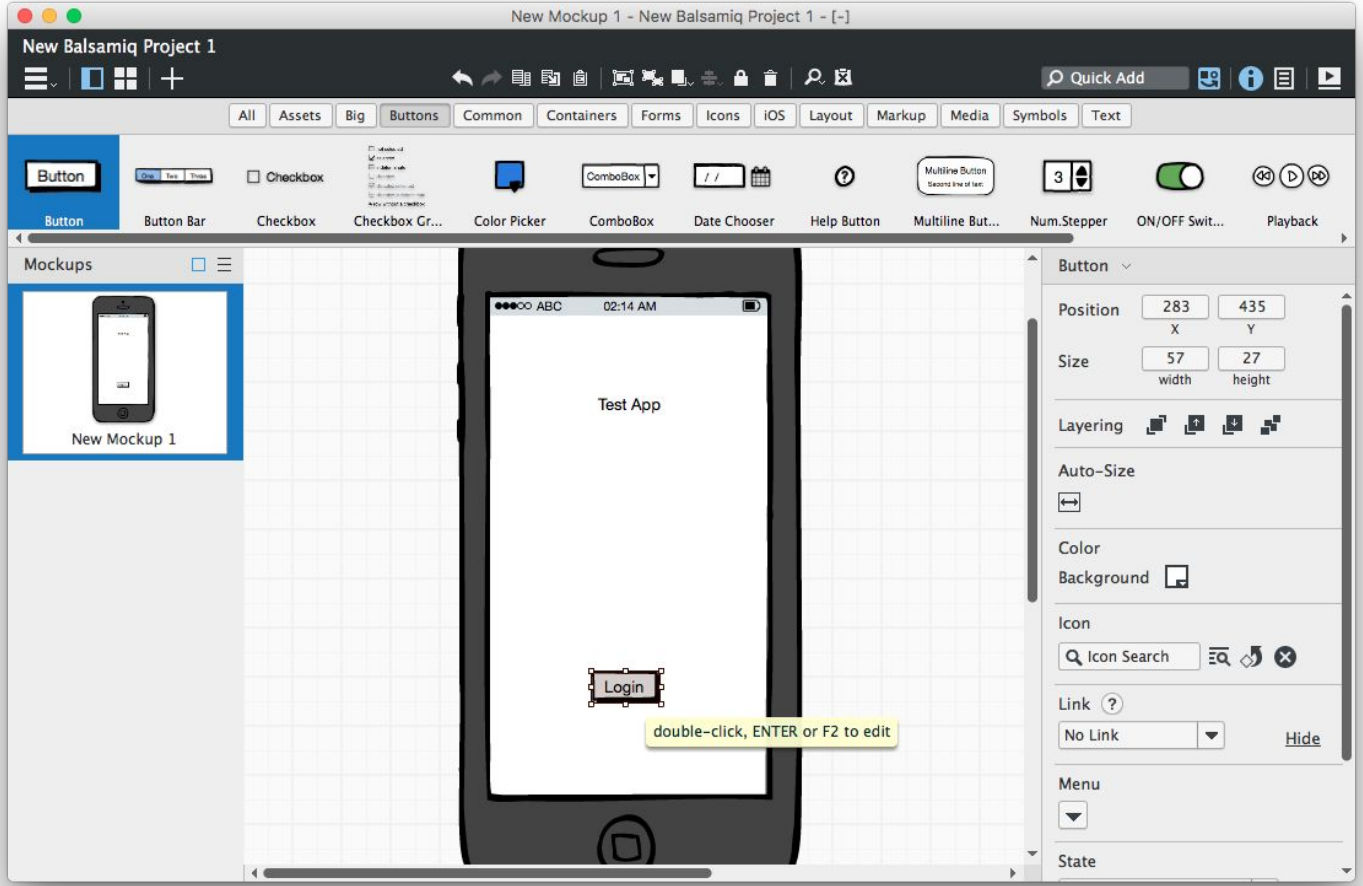
Hide
Menu
State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02:14 AM
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double-click, ENTER or F2 to edit
Button
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Color
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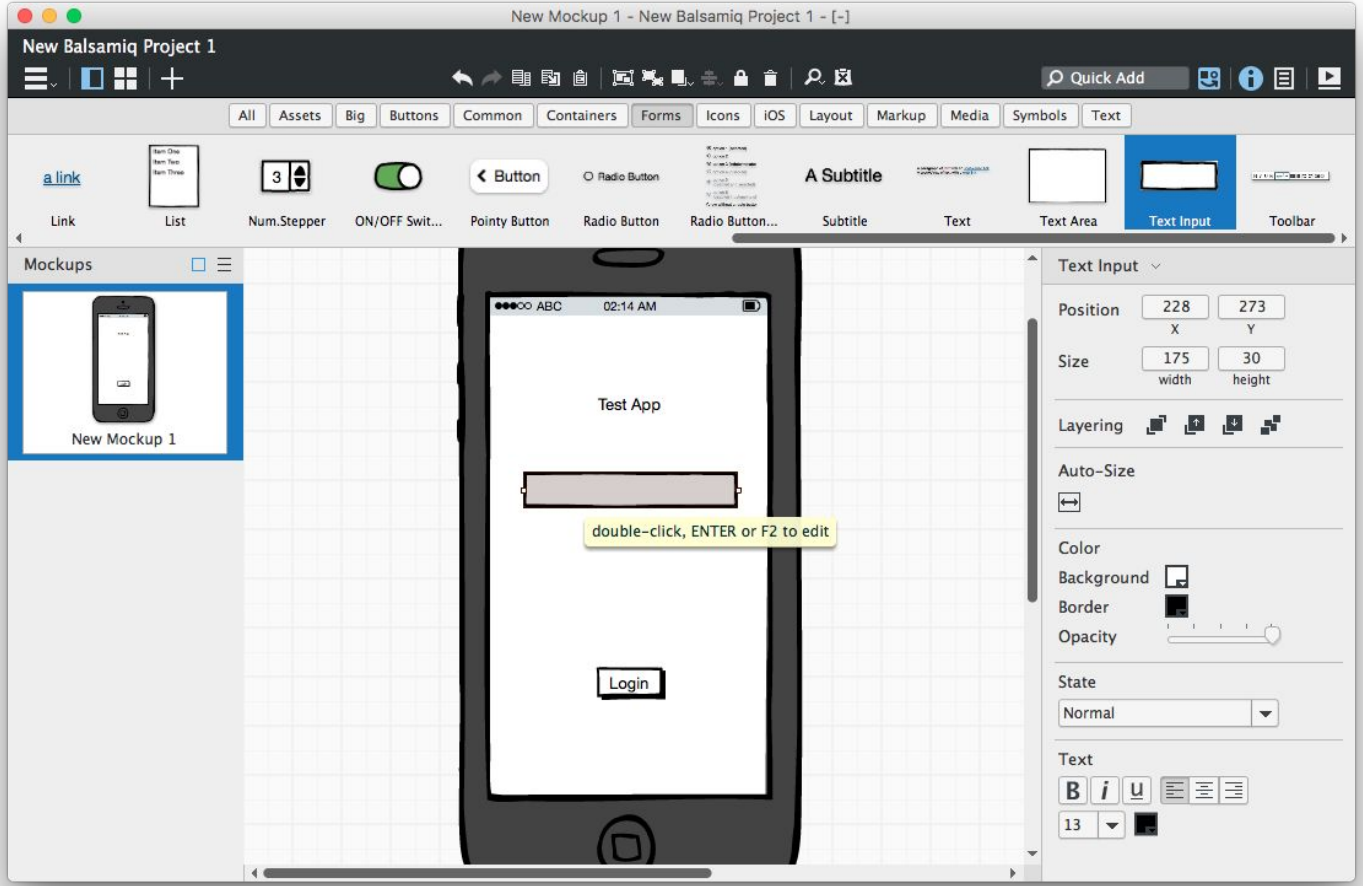
No Link
Hide
Menu
State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Text Input
Toolbar
Mockups
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ABC
02:14 AM
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double-click, ENTER or F2 to edit
Login
Text Input
Position
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X
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Y
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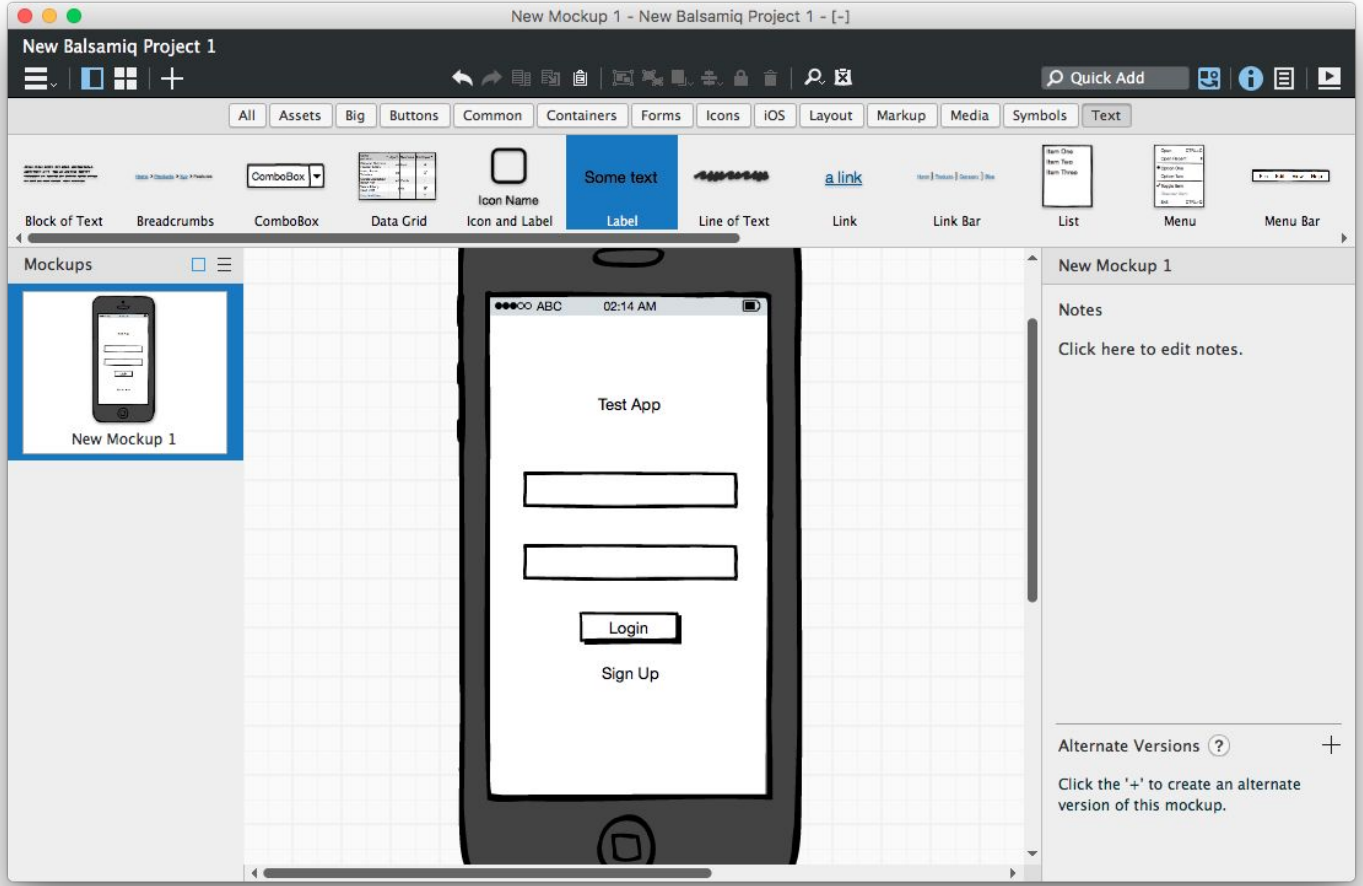
height
Layering
Auto-Size
Color
Background
Border
Opacity
State
Normal
Text
13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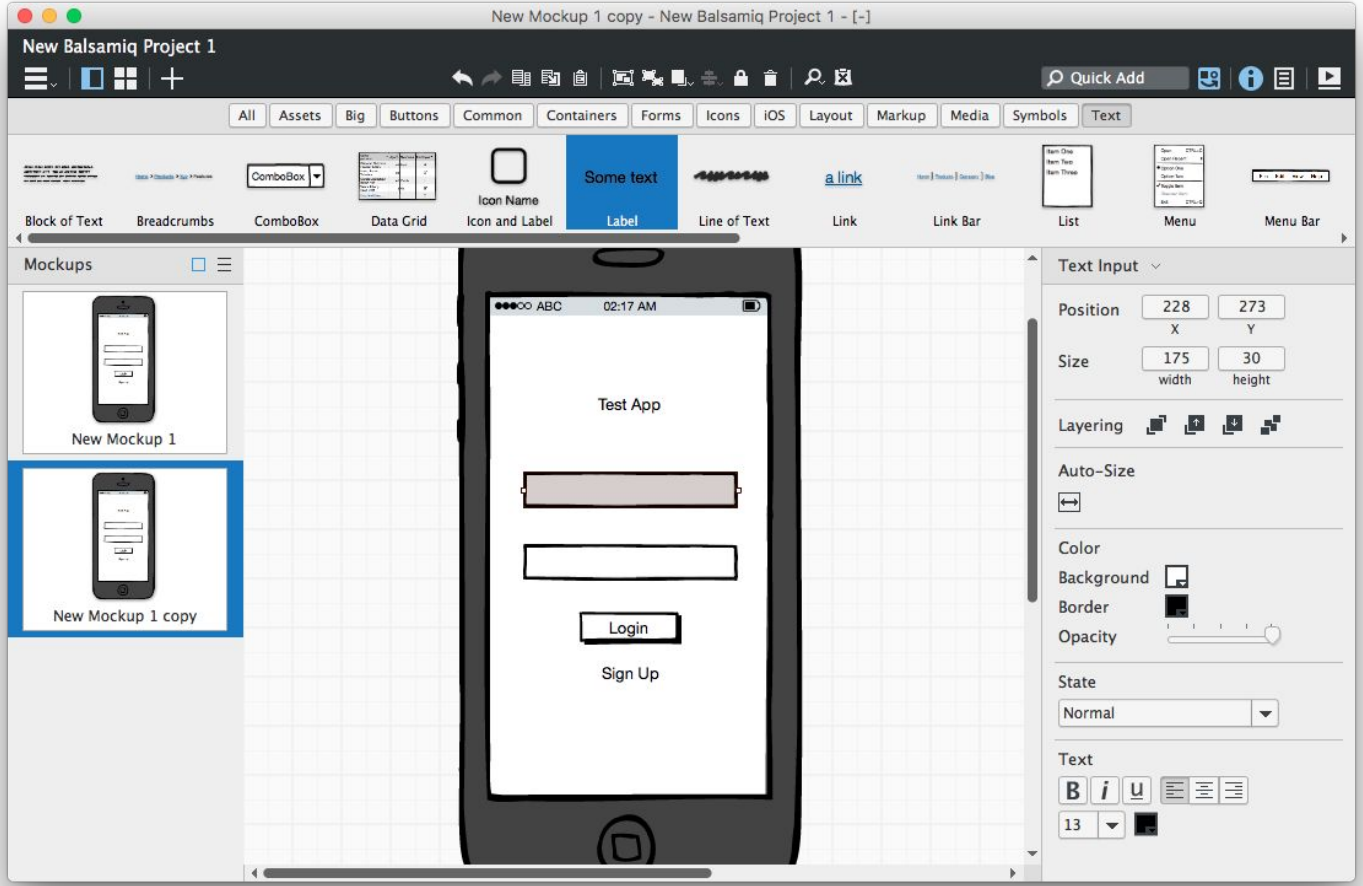
Alternate Versions
Click the '+' to create an alternate version of this mockup.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Test App
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Sign Up
Text Input
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Opacity
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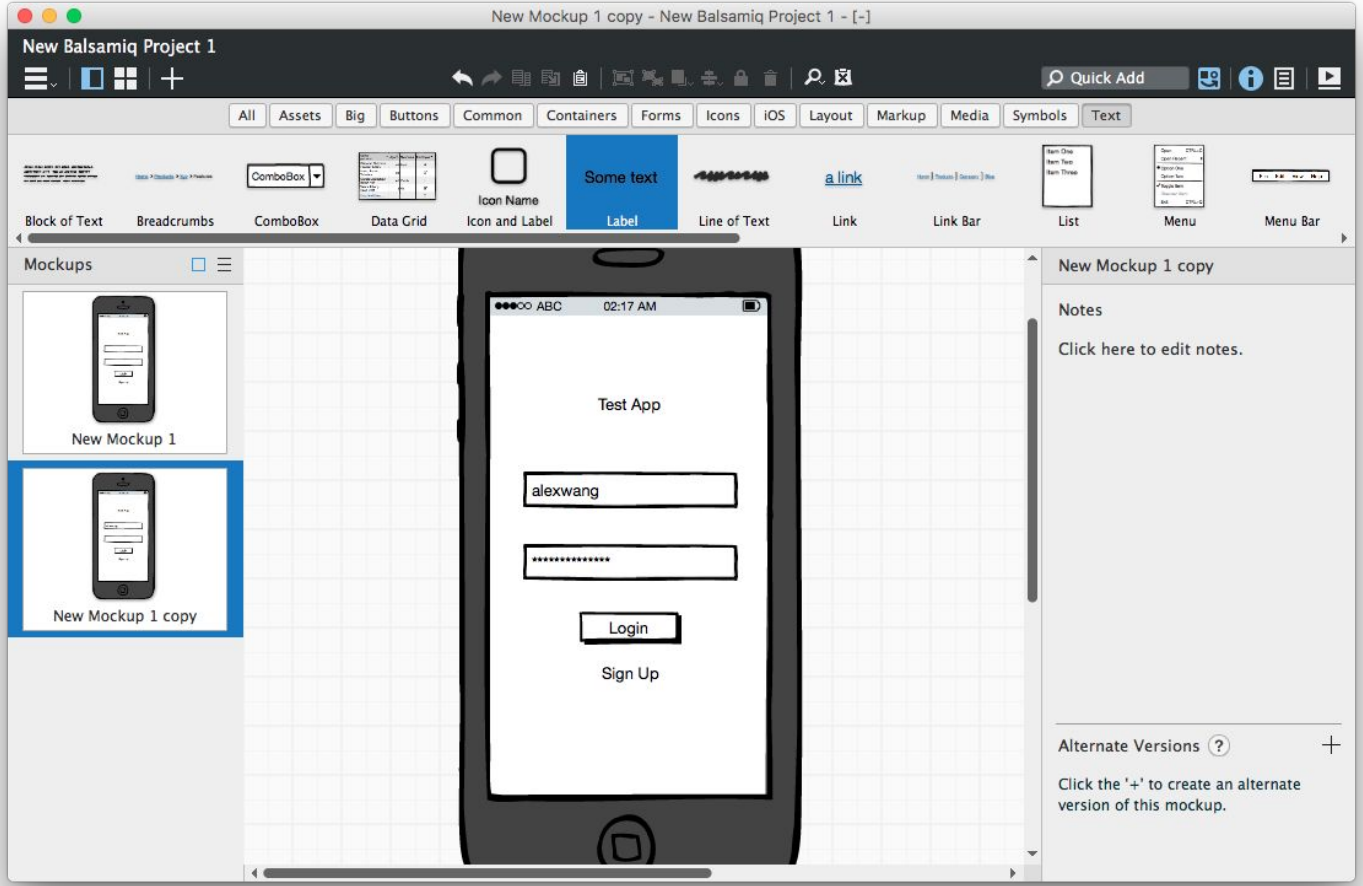
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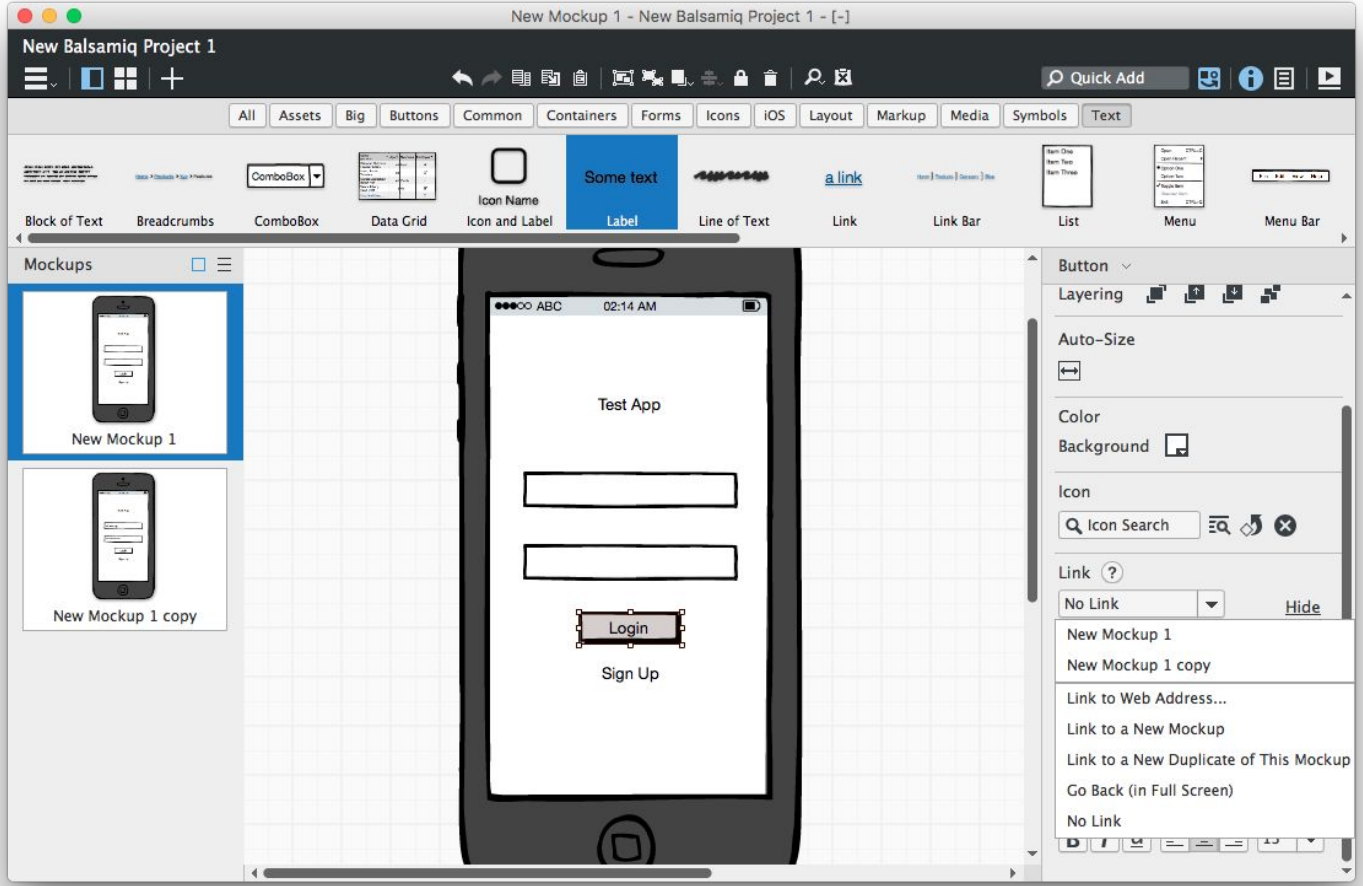
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Link to a New Mockup
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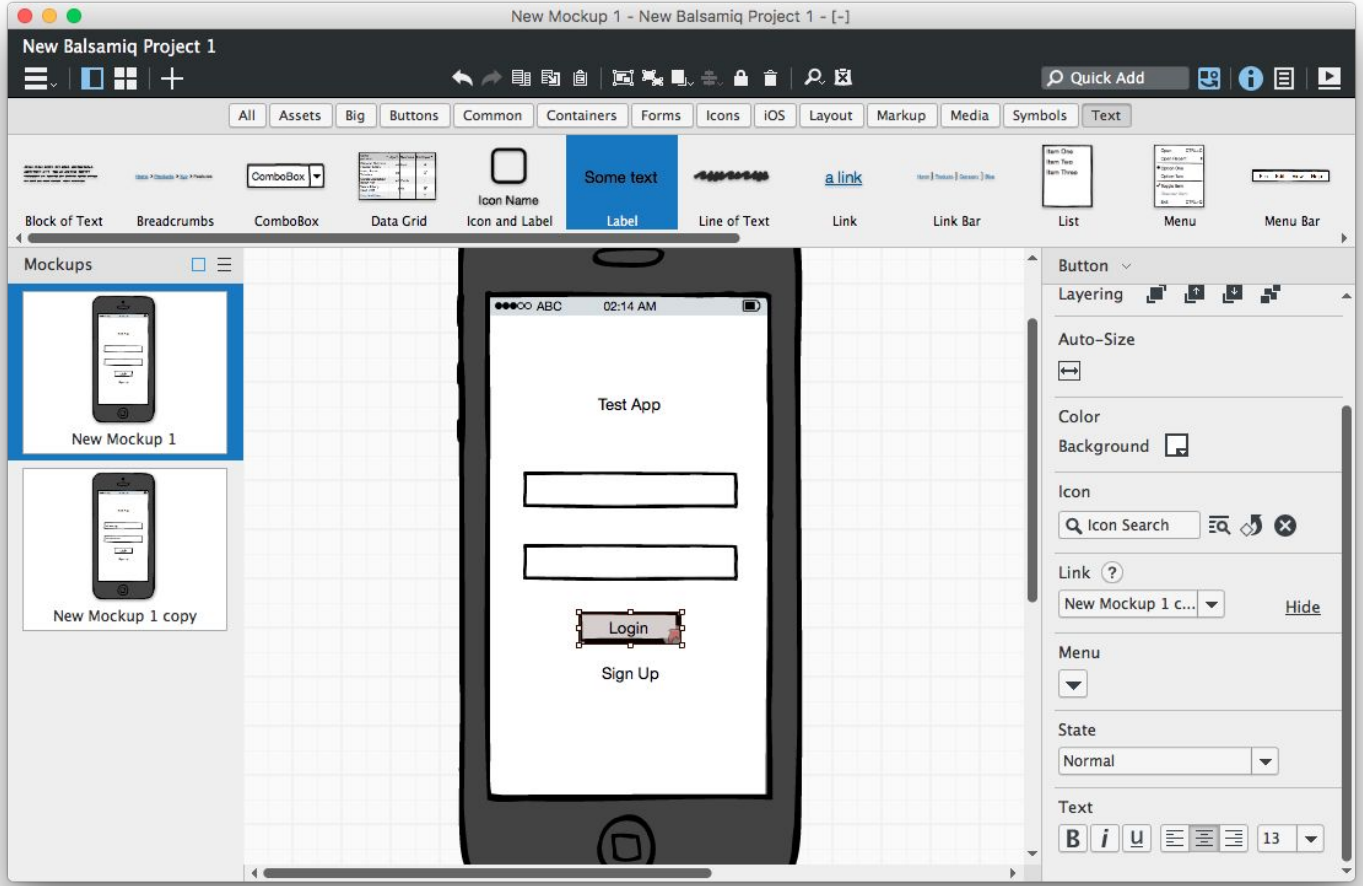
Go Back (in Full Screen)
No Link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ABC
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Test App
Login
Sign Up
Button
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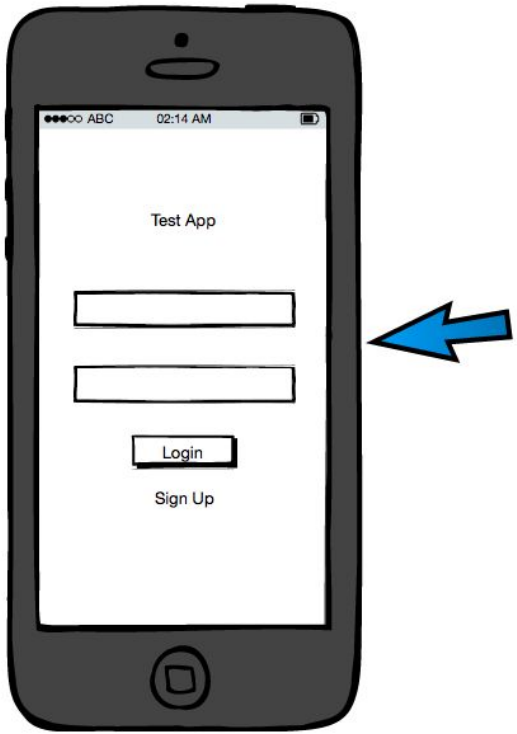
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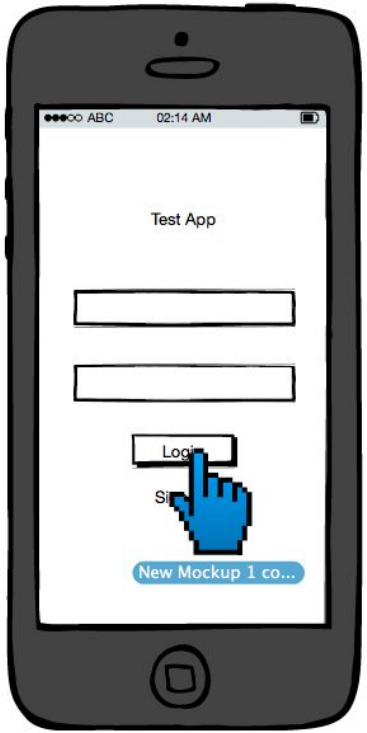
02:14 AM
Test App
Login
Sign Up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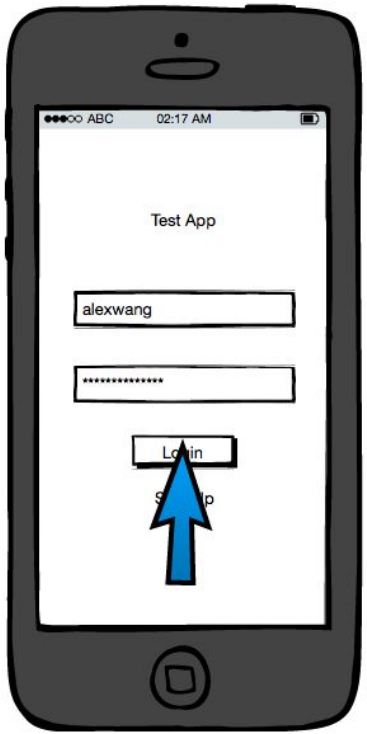
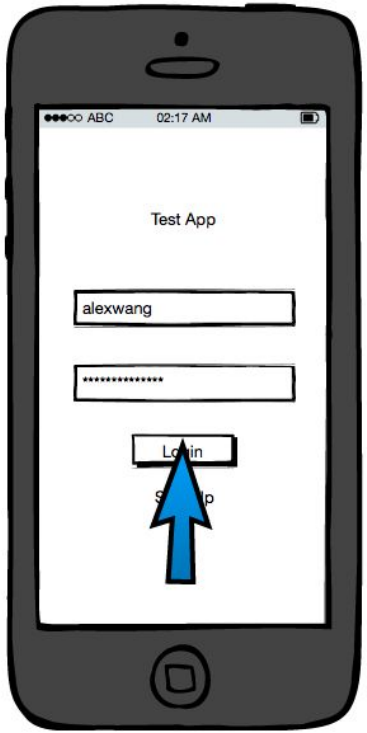

ABC
02:17 AM
Test App
alexwang
Login

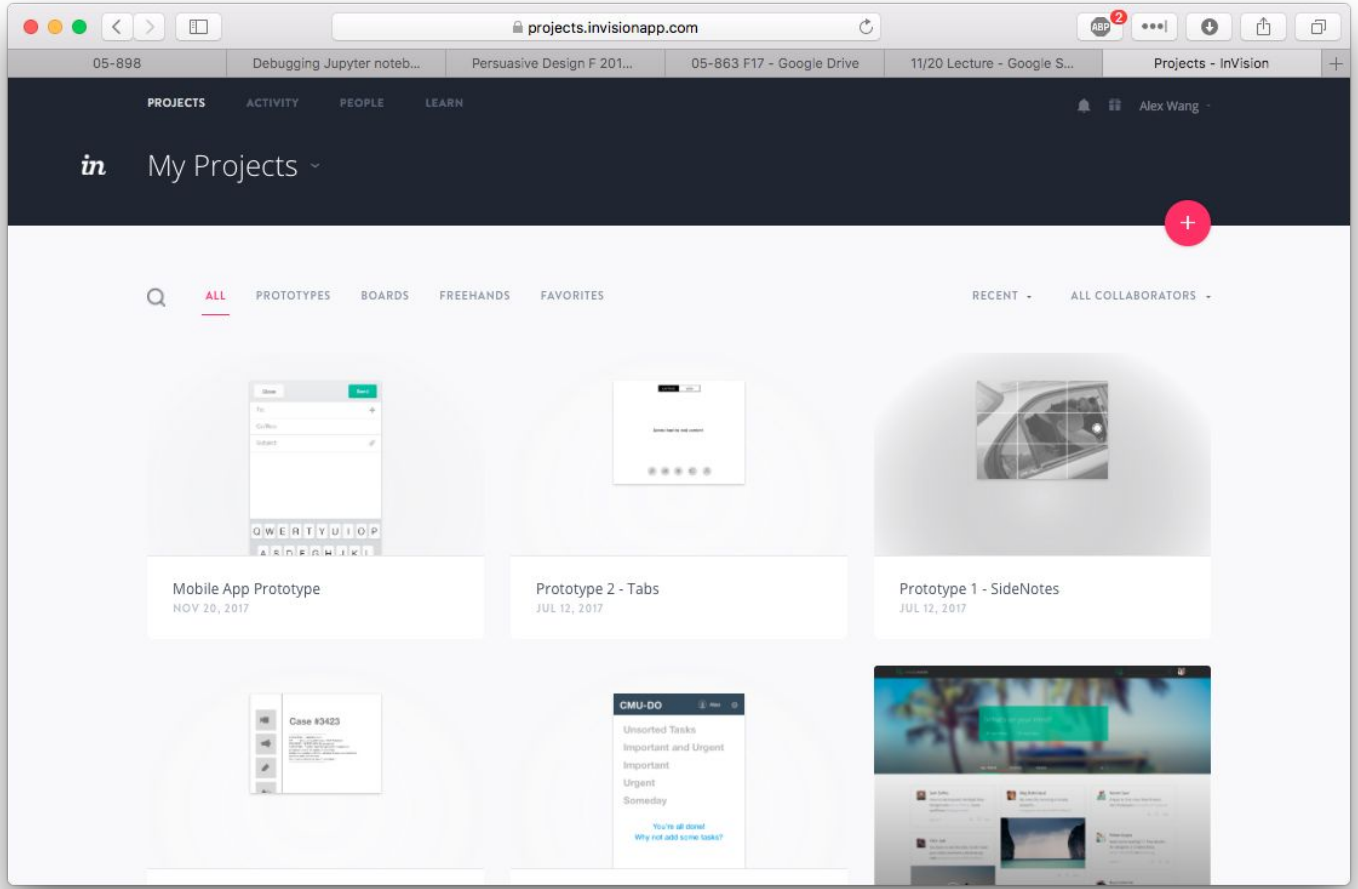


You can export as a PDF and maintain the links

invision

What is InVision?

- Online website that lets you create clickable prototypes by linking images you upload
  - Free to get started
  - Extremely fast, super simple
  - Easy to share
- You need to create your own screens first in another software
  - Sketch
  - Photoshop/Illustrator
  - Balsamiq
  - InVision Freehand, InVision Studio
- Pretty limited if you need more advanced features (like animation)


projects.invisionapp.com
05-898
Debugging Jupyter noteb...
Persuasive Design F 201...
05-863 F17 - Google Drive
11/20 Lecture - Google S...
Projects - InVision
PROJECTS
ACTIVITY
PEOPLE
LEARN
Alex Wang
My Projects
ALL
PROTOTYPES
BOARDS
FREEHANDS
FAVORITES
RECENT
ALL COLLABORATORS
Mobile App Prototype
NOV 20, 2017
Prototype 2 - Tabs
JUL 12, 2017
Prototype 1 - SideNotes
JUL 12, 2017
Case #3423
CMU-DO
Unsorted Tasks
Important and Urgent
Important
Urgent
Someday

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ESC

CREATE NEW PROJECT

Choose a project type

PROTOTYPE

Interactive mockup of a web, mobile or wearable experience.

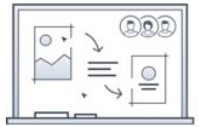
CREATE NEW PROTOTYPE

OR TRY A SAMPLE

BOARD

Collaborative moodboard, brandboard, design story or collection.

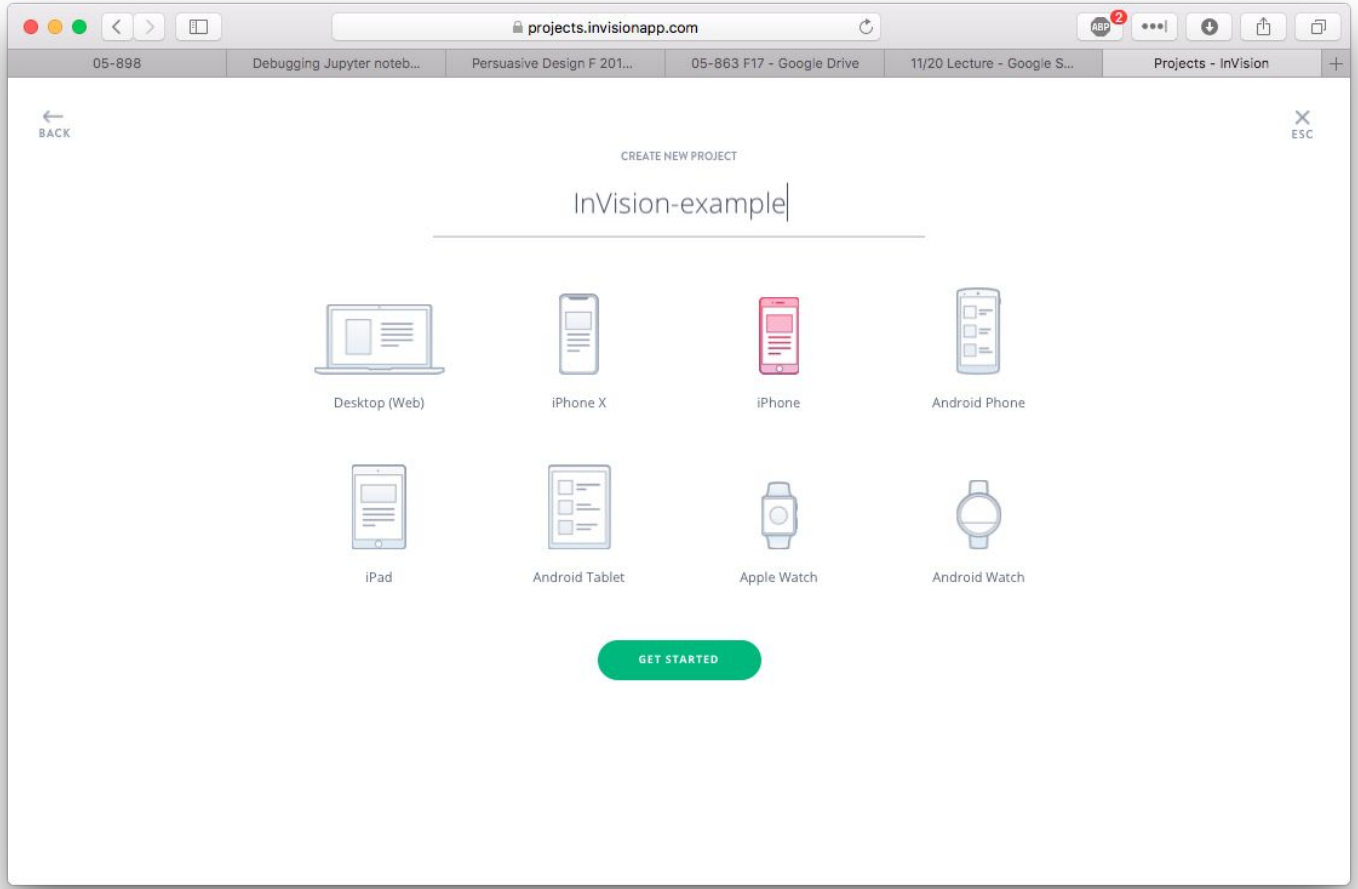
CREATE NEW BOARD



FREEHAND

Sketch, collaborate on design changes, or co-draw in real time.

CREATE NEW FREEHAND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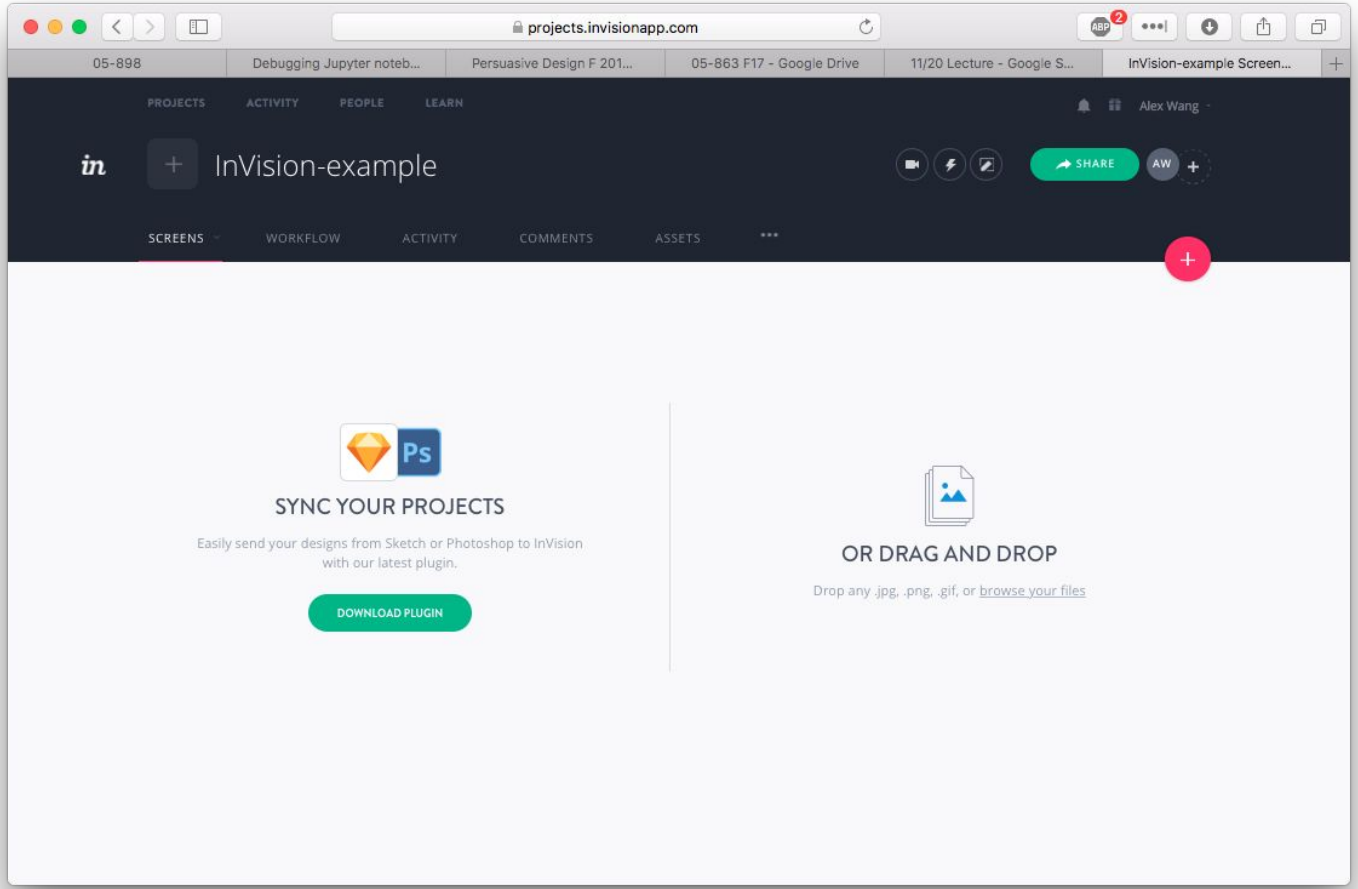
05-898
Debugging Jupyter noteb...
Persuasive Design F 201...
05-863 F17 - Google Drive
11/20 Lecture - Google S...
Projects - InVision
BACK
ESC
CREATE NEW PROJECT
InVision-example
Desktop (Web)
iPhone X
iPhone
Android Phone
iPad
Android Tablet
Apple Watch
Android Watch
GET STARTED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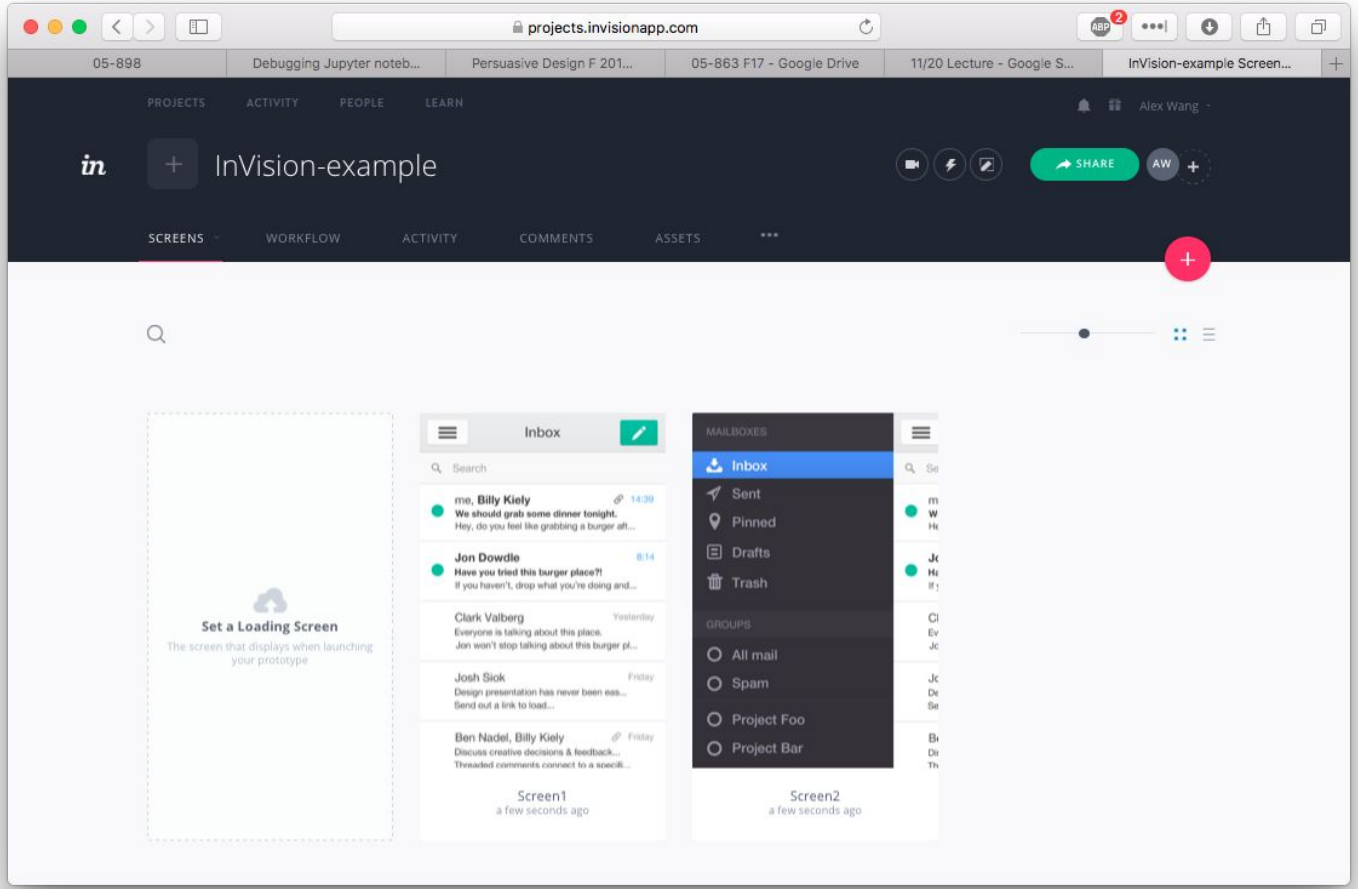
Persuasive Design F 201...
05-863 F17 - Google Drive
11/20 Lecture - Google S...
InVision-example Screen...
PROJECTS
ACTIVITY
PEOPLE
LEARN
Alex Wang
InVision-example
SHARE
AW
SCREENS
WORKFLOW
ACTIVITY
COMMENTS
ASSETS
SYNC YOUR PROJECTS
Easily send your designs from Sketch or Photoshop to InVision with our latest plugin.
DOWNLOAD PLUGIN
OR DRAG AND DROP
Drop any .jpg, .png, .gif, or browse your files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InVision-example Screen...
PROJECTS
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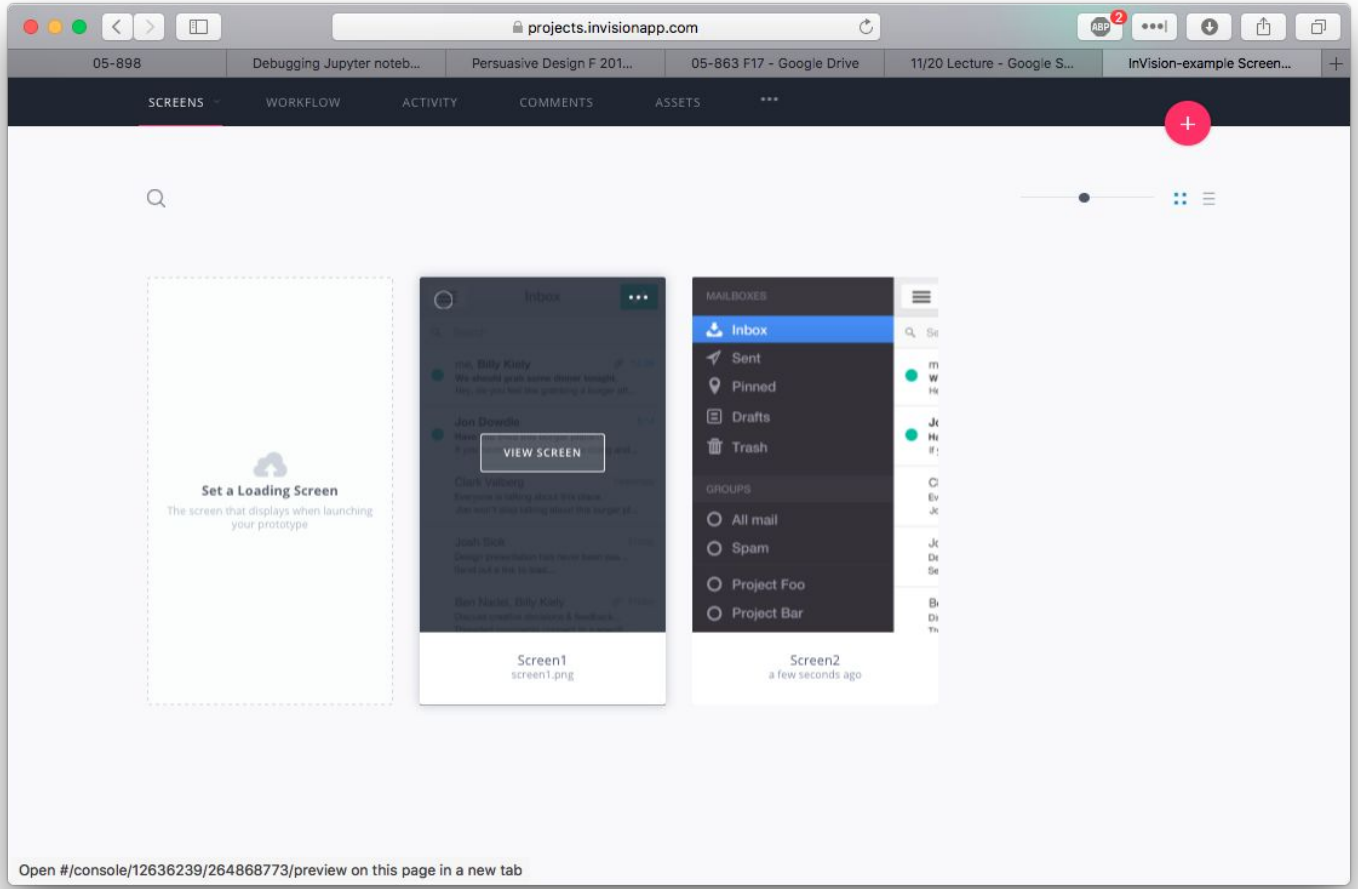
PEOPLE
LEARN
Alex Wang
InVision-example
SHARE
AW
SCREENS
WORKFLOW
ACTIVITY
COMMENTS
ASSETS
Set a Loading Screen
The screen that displays when launching your prototype
Inbox
Search
me, Billy Kiely
We should grab some dinner tonight.
Hey, do you feel like grabbing a burger aft...
Jon Dowdle
Have you tried this burger place?!
If you haven't, drop what you're doing and...
Clark Valberg
Everyone is talking about this place.
Jon won't stop talking about this burger pl...
Josh Siok
Design presentation has never been eas...
Send out a link to load...
Ben Nadel, Billy Kiely
Discuss creative decisions & feedback...
Threaded comments connect to a specifi...
Screen1
a few seconds ago
MAILBOXES
Inbox
Sent
Pinned
Drafts
Trash
GROUPS
All mail
Spam
Project Foo
Project Bar
Screen2
a few seconds ago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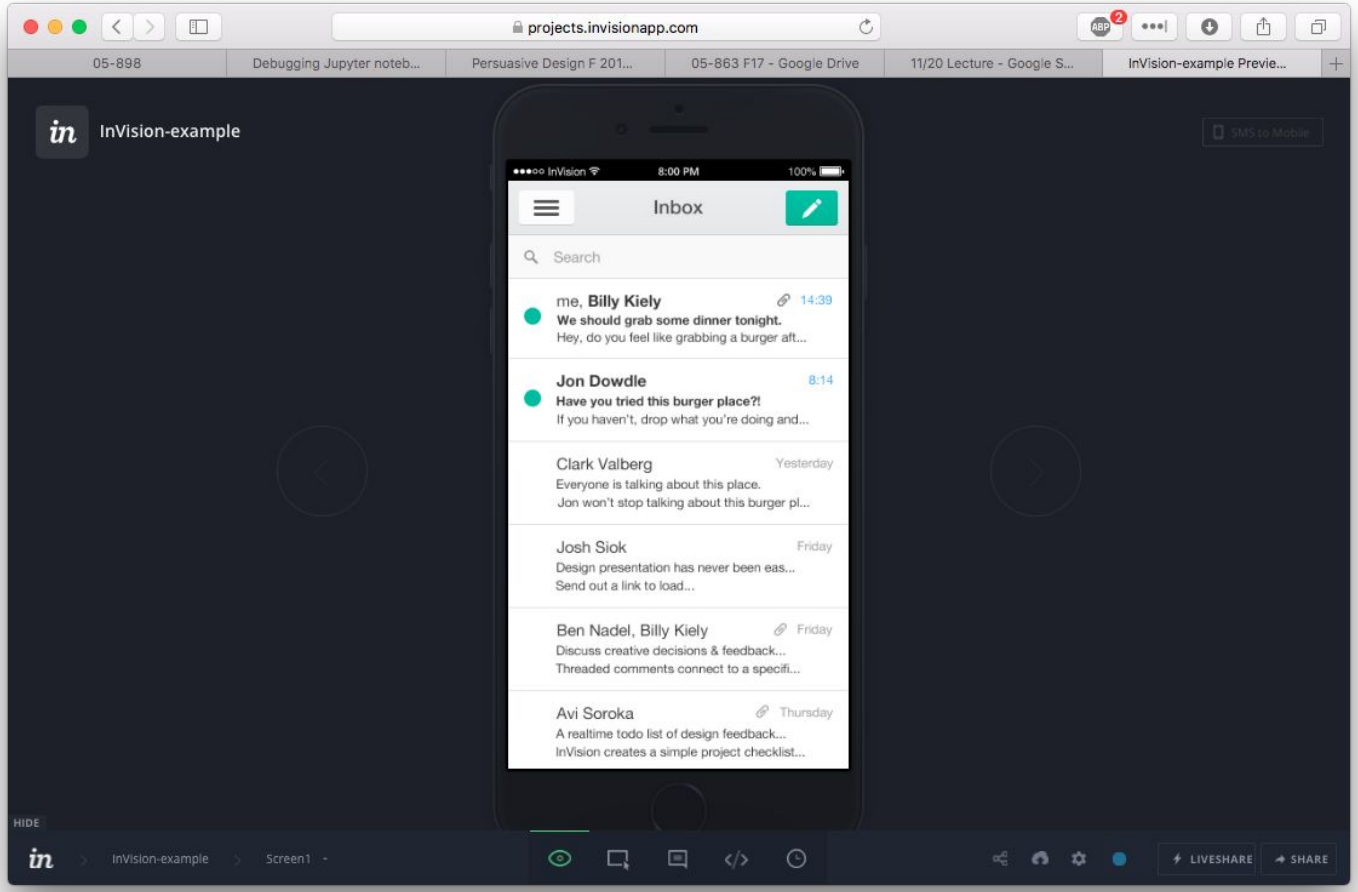
Debugging Jupyter noteb...
Persuasive Design F 201...
05-863 F17 - Google Drive
11/20 Lecture - Google S...
InVision-example Screen...
SCREENS
WORKFLOW
ACTIVITY
COMMENTS
ASSETS
Set a Loading Screen
The screen that displays when launching your prototype
Inbox
VIEW SCREEN
Screen1
screen1.png
MAILBOXES
Inbox
Sent
Pinned
Drafts
Trash
GROUPS
All mail
Spam
Project Foo
Project Bar
Screen2
a few seconds ago
Open #/console/12636239/264868773/preview on this page in a new tab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05-898
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InVision-example
SMS to Mobile
InVision 8:00 PM 100%
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Search
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Design presentation has never been eas...
Send out a link to load...
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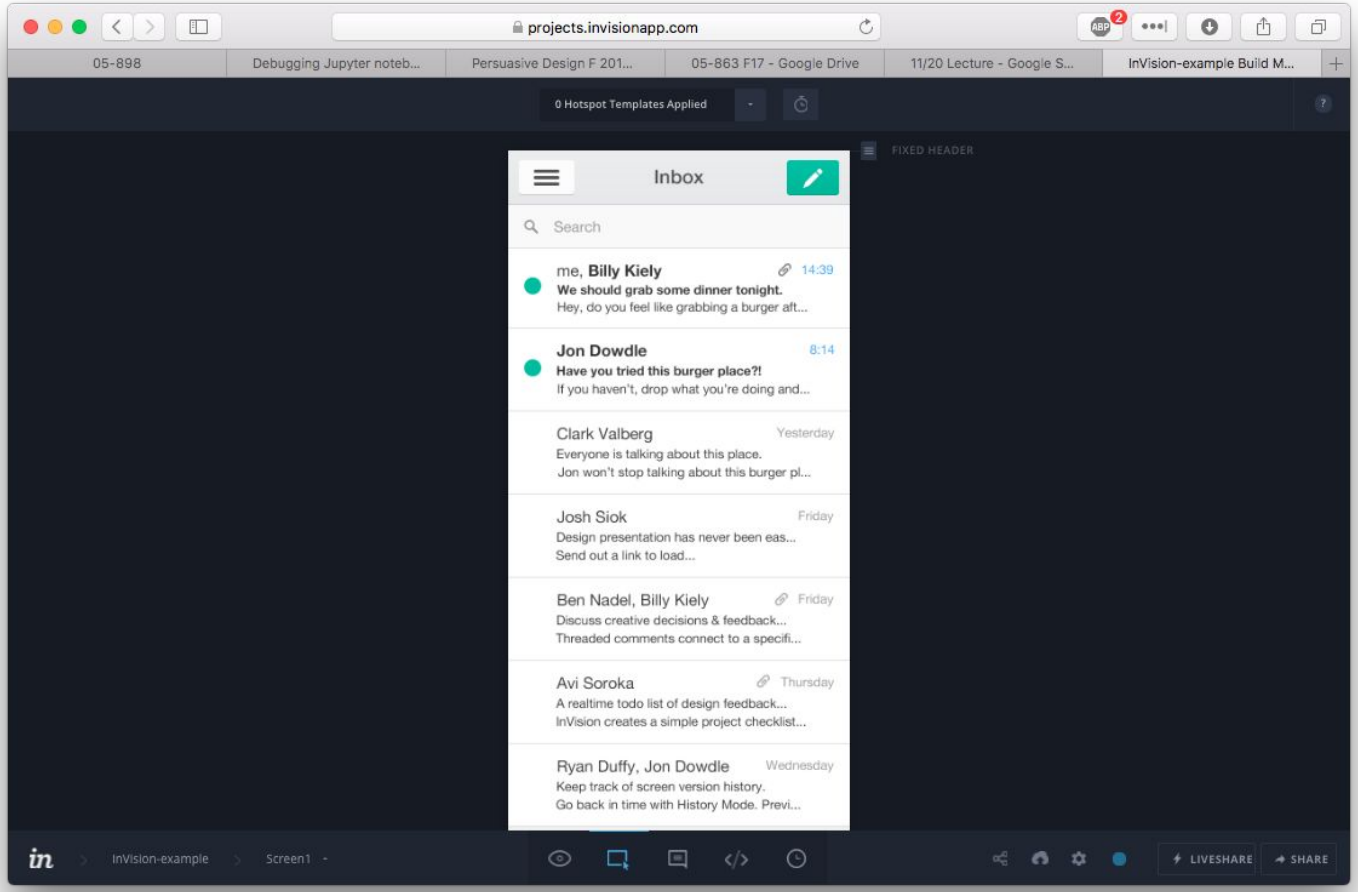
Discuss creative decisions & feedback...
Threaded comments connect to a specifi...
Avi Soroka Thursday
A realtime todo list of design feedback...
InVision creates a simple project checklist...
HIDE
InVision-example
Screen1
LIVESHARE
SHARE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Ryan Duffy, Jon Dowdle
Wednesday
Keep track of screen version history.
Go back in time with History Mode. Previ...
in
InVision-example
Screen1
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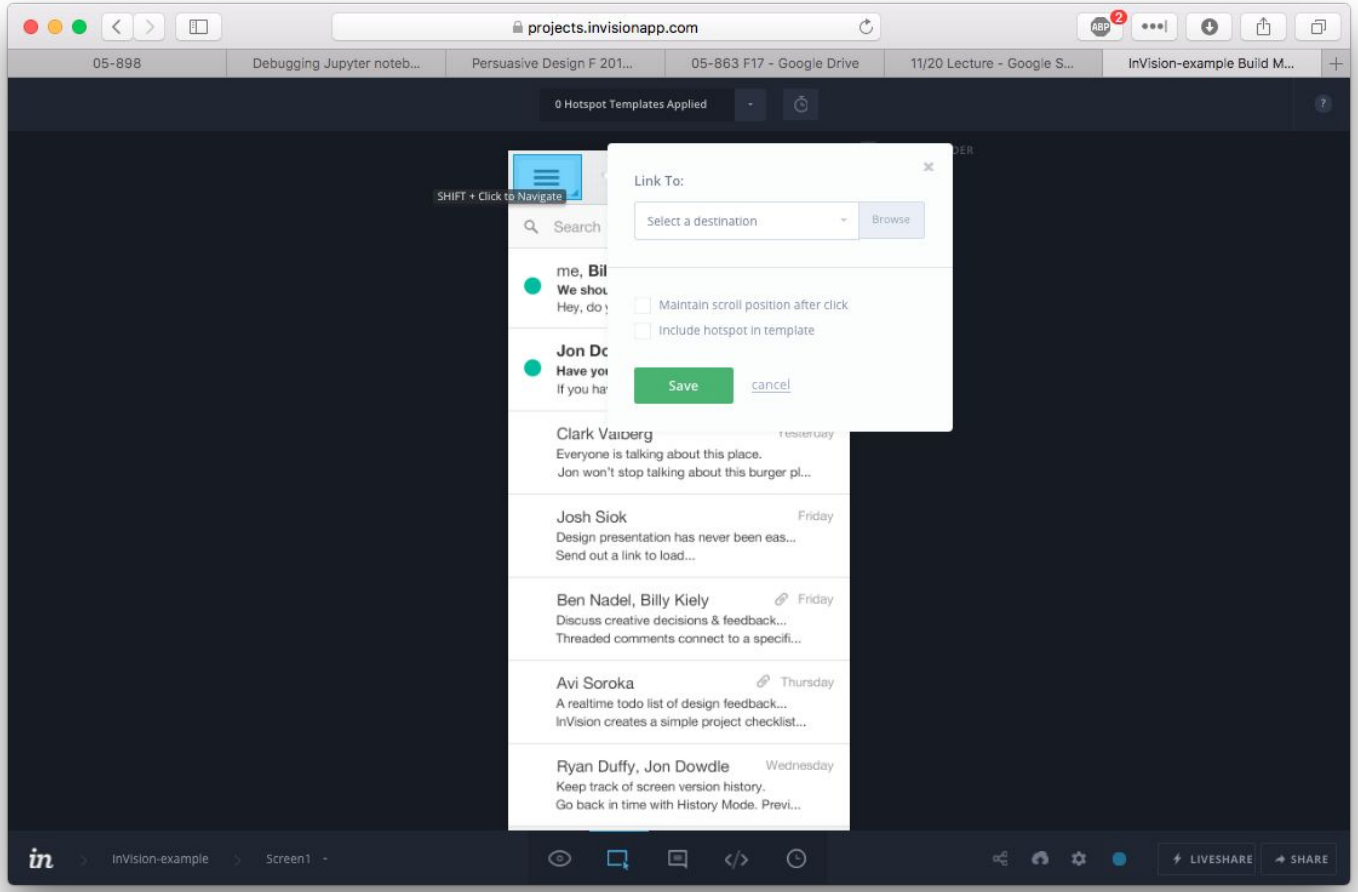
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05-898
Debugging Jupyter noteb...
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11/20 Lecture - Google S...
InVision-example Build M...
0 Hotspot Templates Applied
SHIFT + Click to Navigate
Search
Link To:
Select a destination
Browse
Maintain scroll position after click
Include hotspot in template
Save
cancel
Clark Varberg
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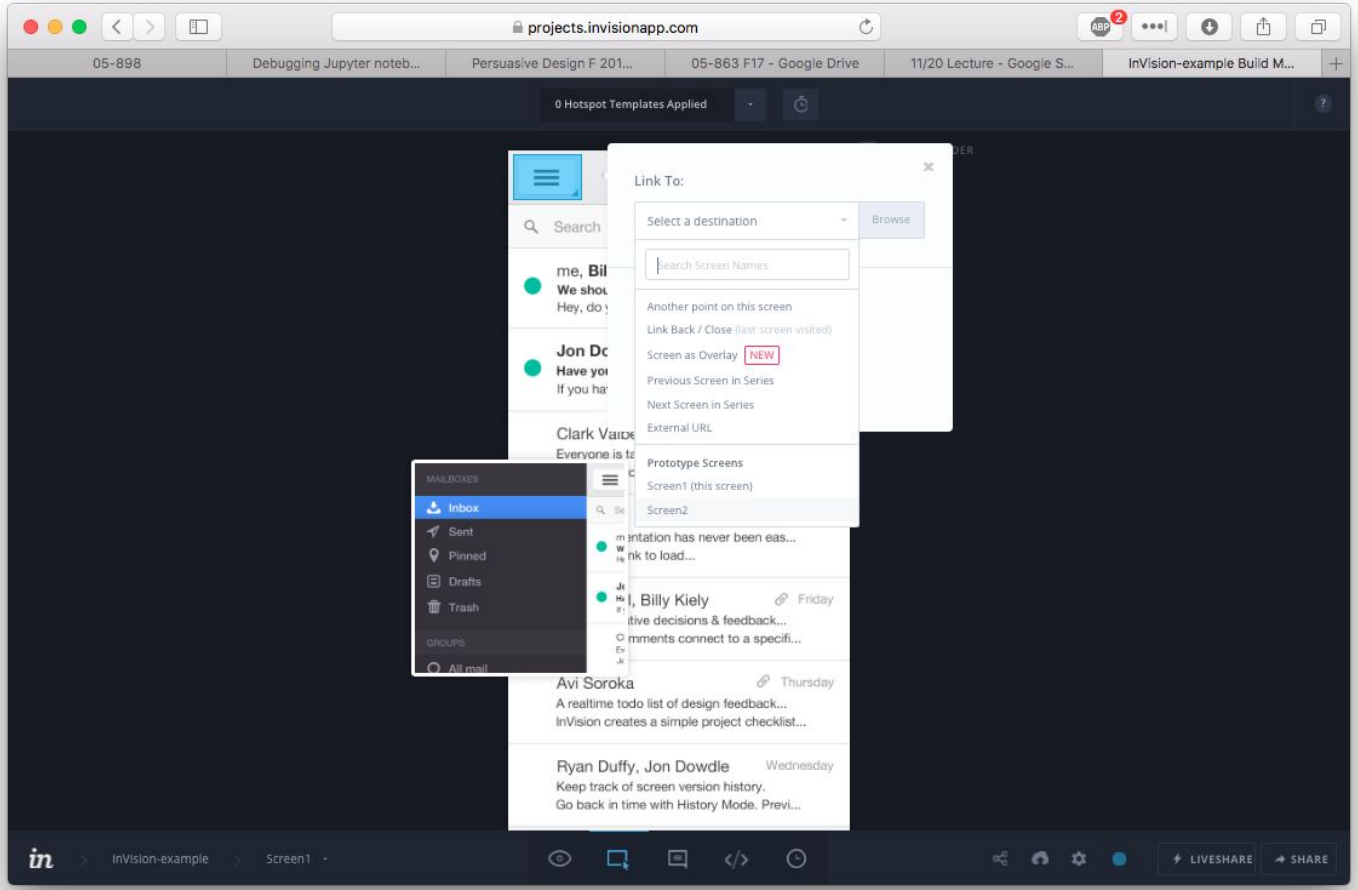
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11/20 Lecture - Google S...
InVision-example Build M...
0 Hotspot Templates Applied
Link To:
Select a destination
Browse
Search Screen Names
Another point on this screen
Link Back / Close (last screen visited)
Screen as Overlay
NEW
Previous Screen in Series
Next Screen in Series
External URL
Prototype Screens
Screen1 (this screen)
Screen2
Search
MAILBOXES
Inbox
Sent
Pinned
Drafts
Trash
GROUPS
All mail
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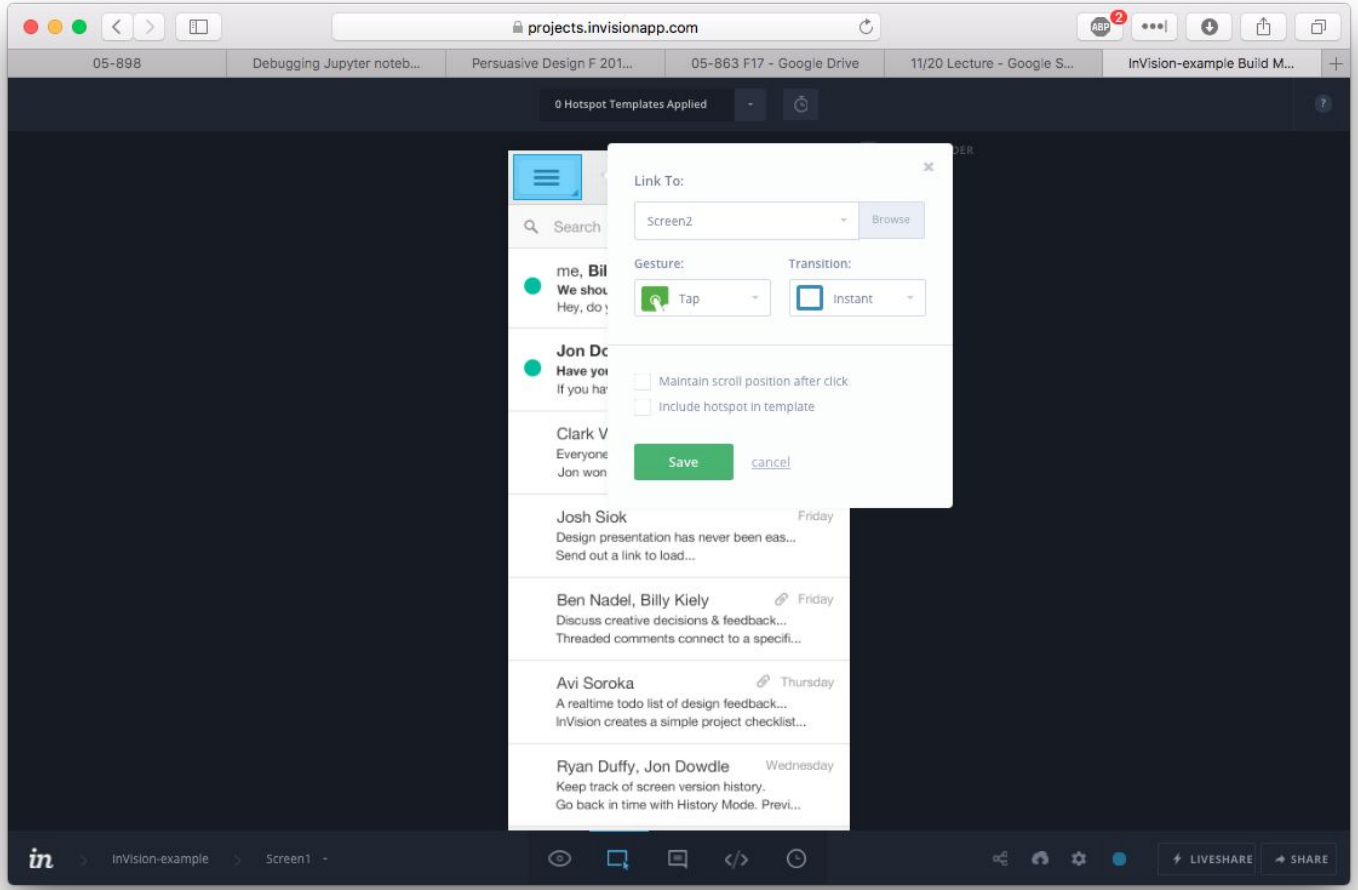
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0 Hotspot Templates Applied
Link To:
Screen2
Browse
Gesture:
Tap
Transition:
Instant
Maintain scroll position after click
Include hotspot in template
Save
cancel
Search
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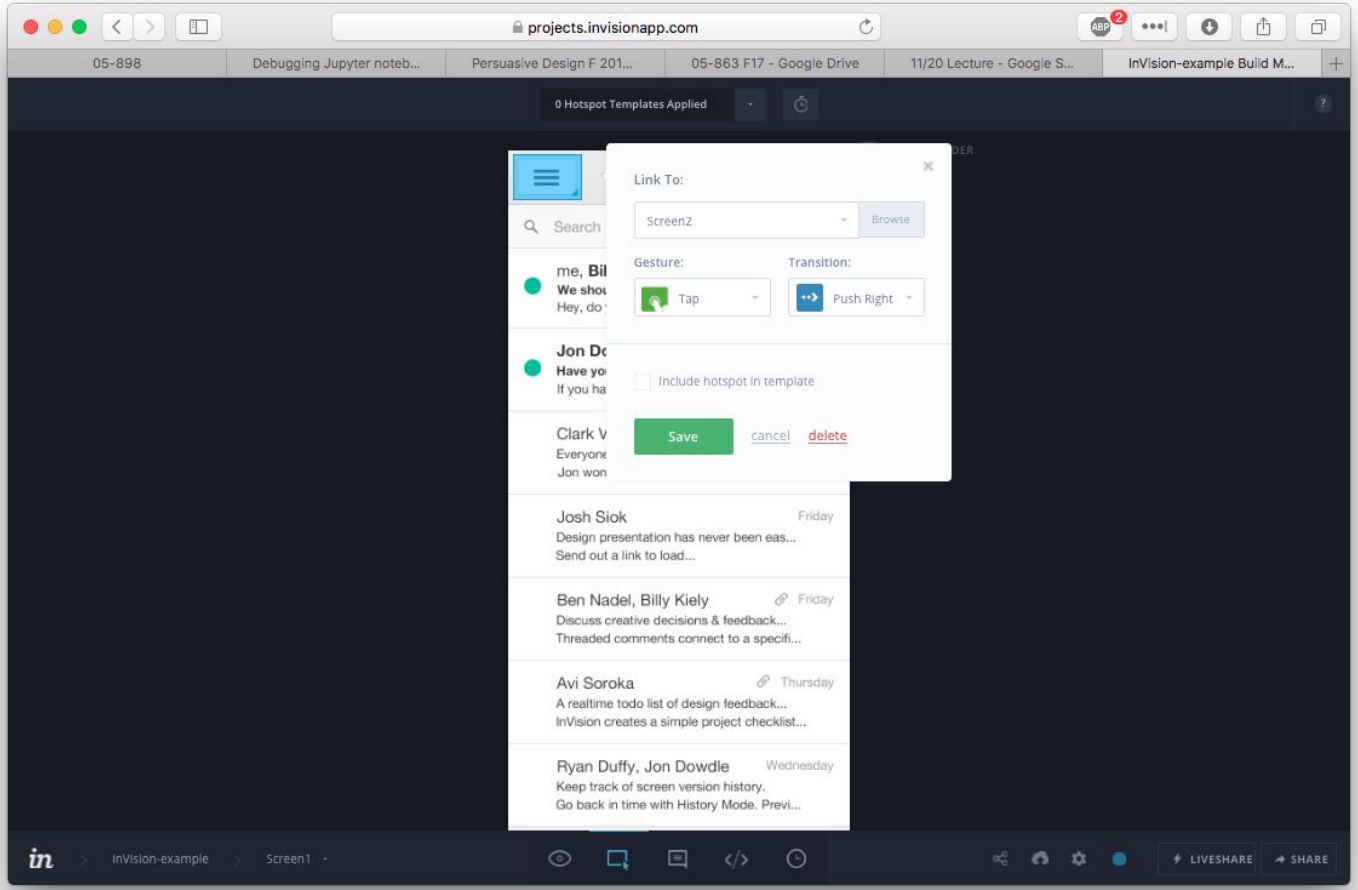
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0 Hotspot Templates Applied
Link To:
Screen2
Browse
Gesture:
Tap
Transition:
Push Right
Include hotspot in template
Save
cancel
delete
Search
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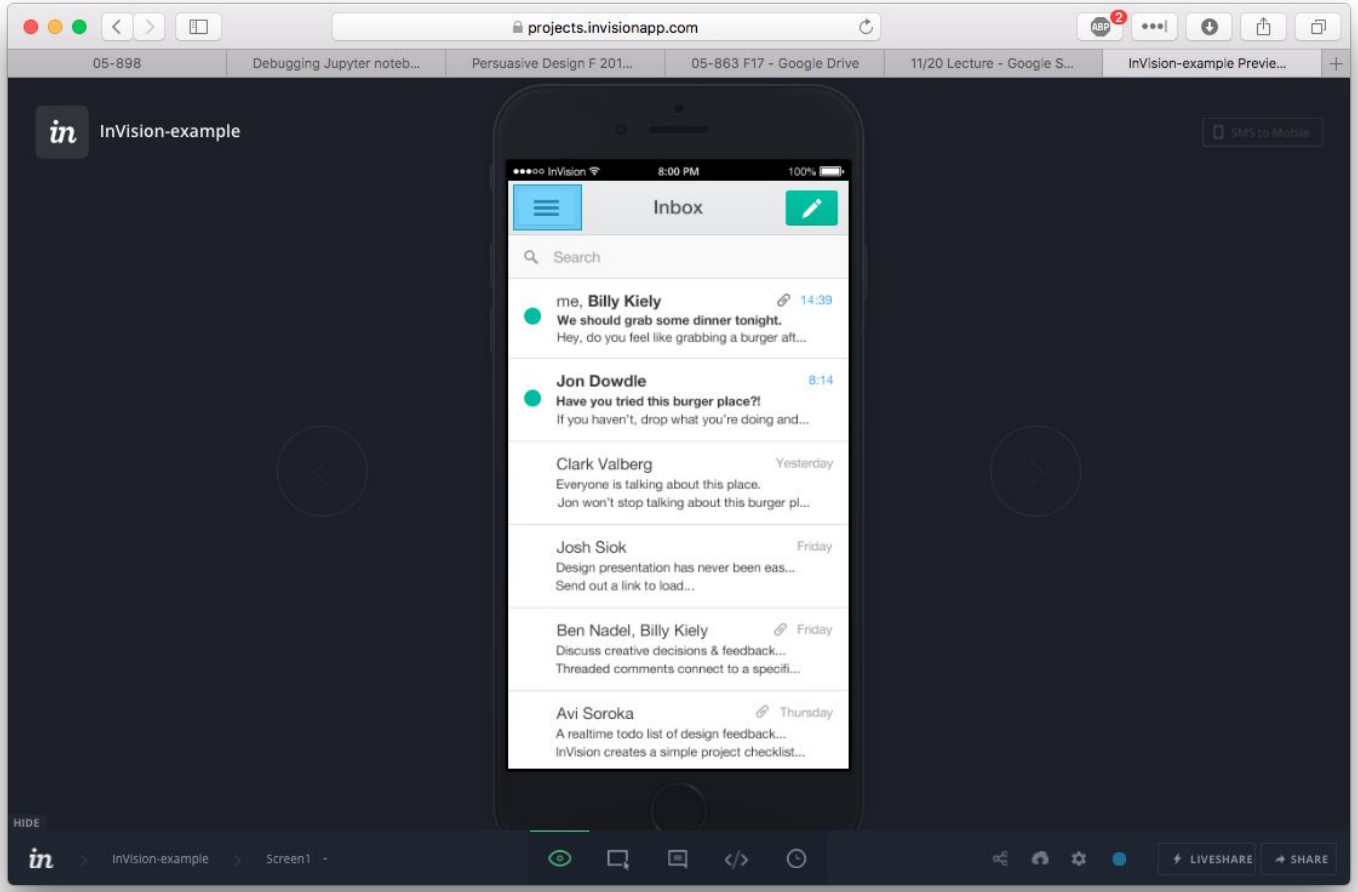
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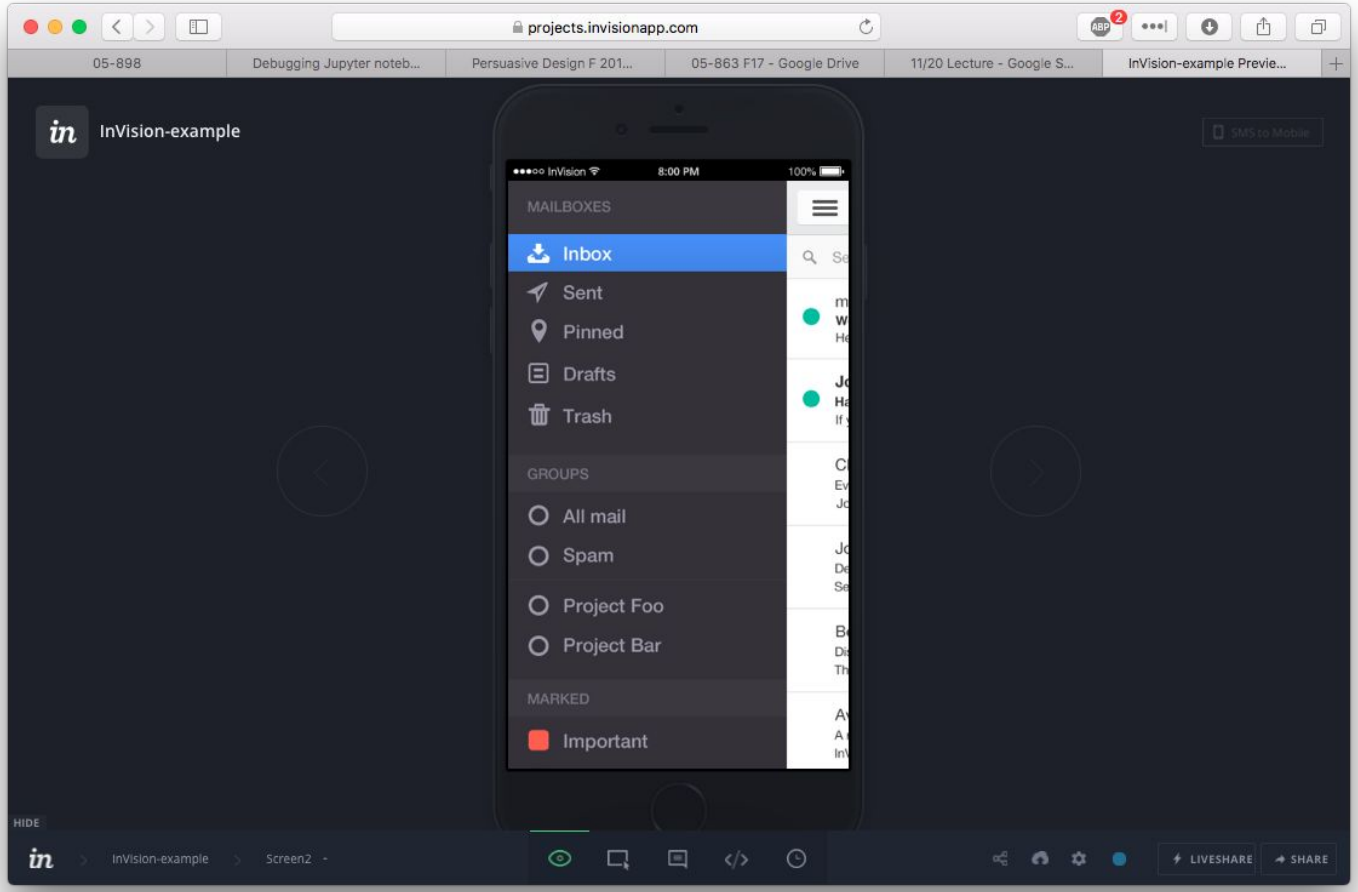
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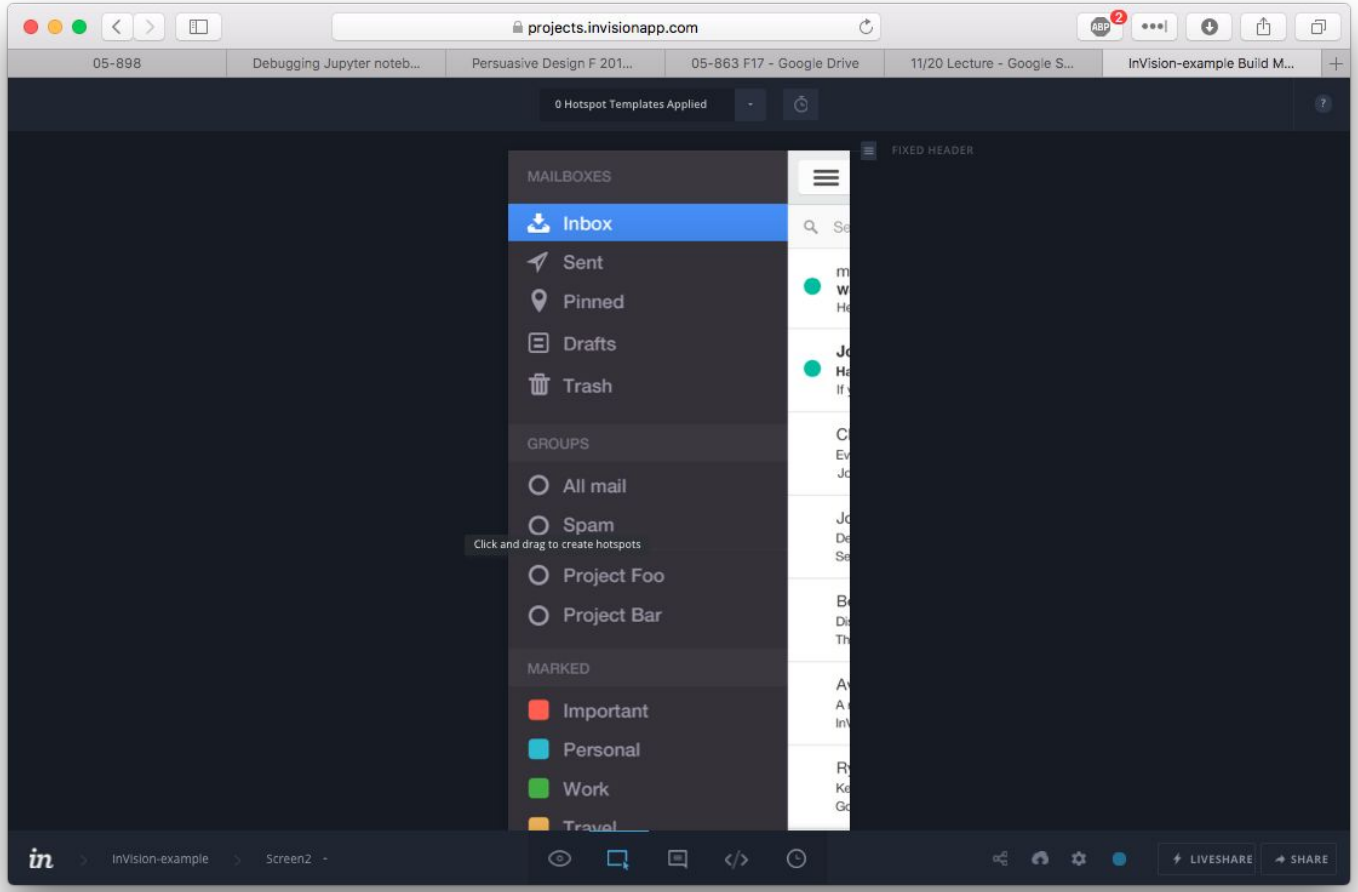
MAILBOXES
Inbox
Sent
Pinned
Drafts
Trash
GROUPS
All mail
Spam
Project Foo
Project Bar
MARKED
Important
HIDE
InVision-example
Screen2
LIVESHARE
SHARE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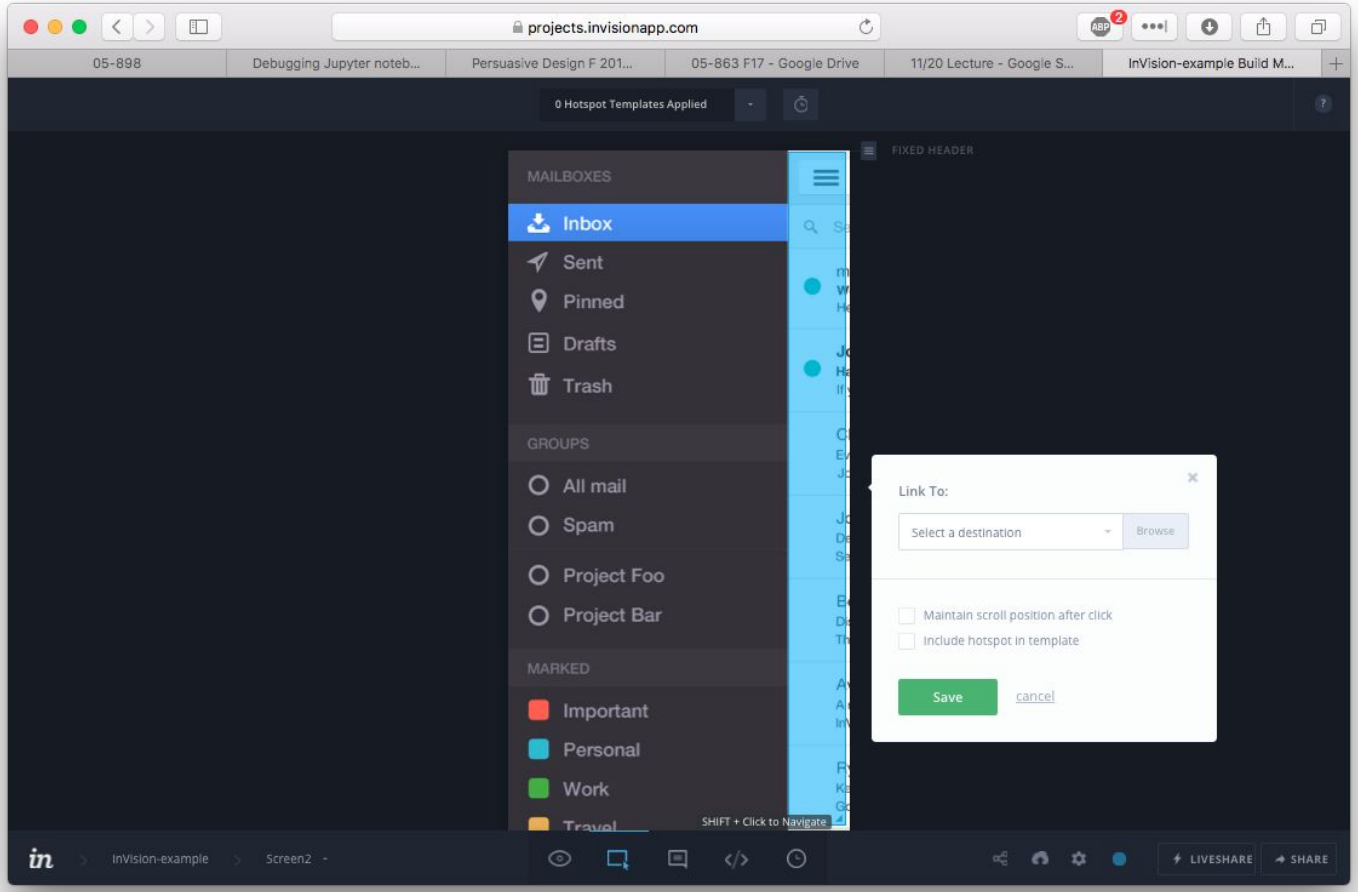
0 Hotspot Templates Applied
FIXED HEADER
MAILBOXES
Inbox
Sent
Pinned
Drafts
Trash
GROUPS
All mail
Spam
Click and drag to create hotspots
Project Foo
Project Bar
MARKED
Important
Personal
Work
InVision-example
Screen2
LIVESHARE
SHARE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Work
Travel
SHIFT + Click to Navigate
Link To:
Select a destination
Browse
Maintain scroll position after click
Include hotspot in template
Save
cancel
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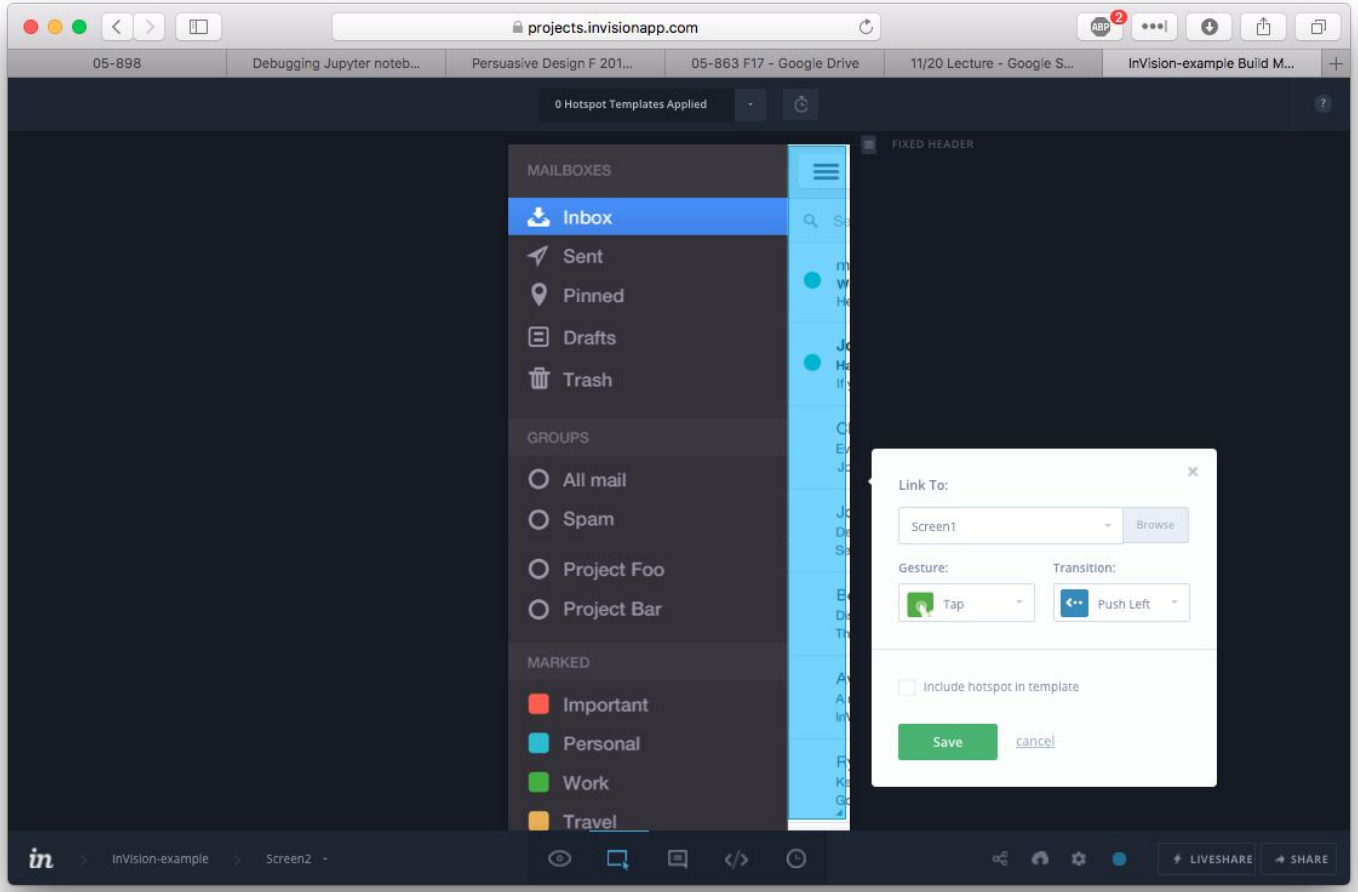
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Work
Travel
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Gesture:
Tap
Transition:
Push Left
Include hotspot in template
Save
cancel
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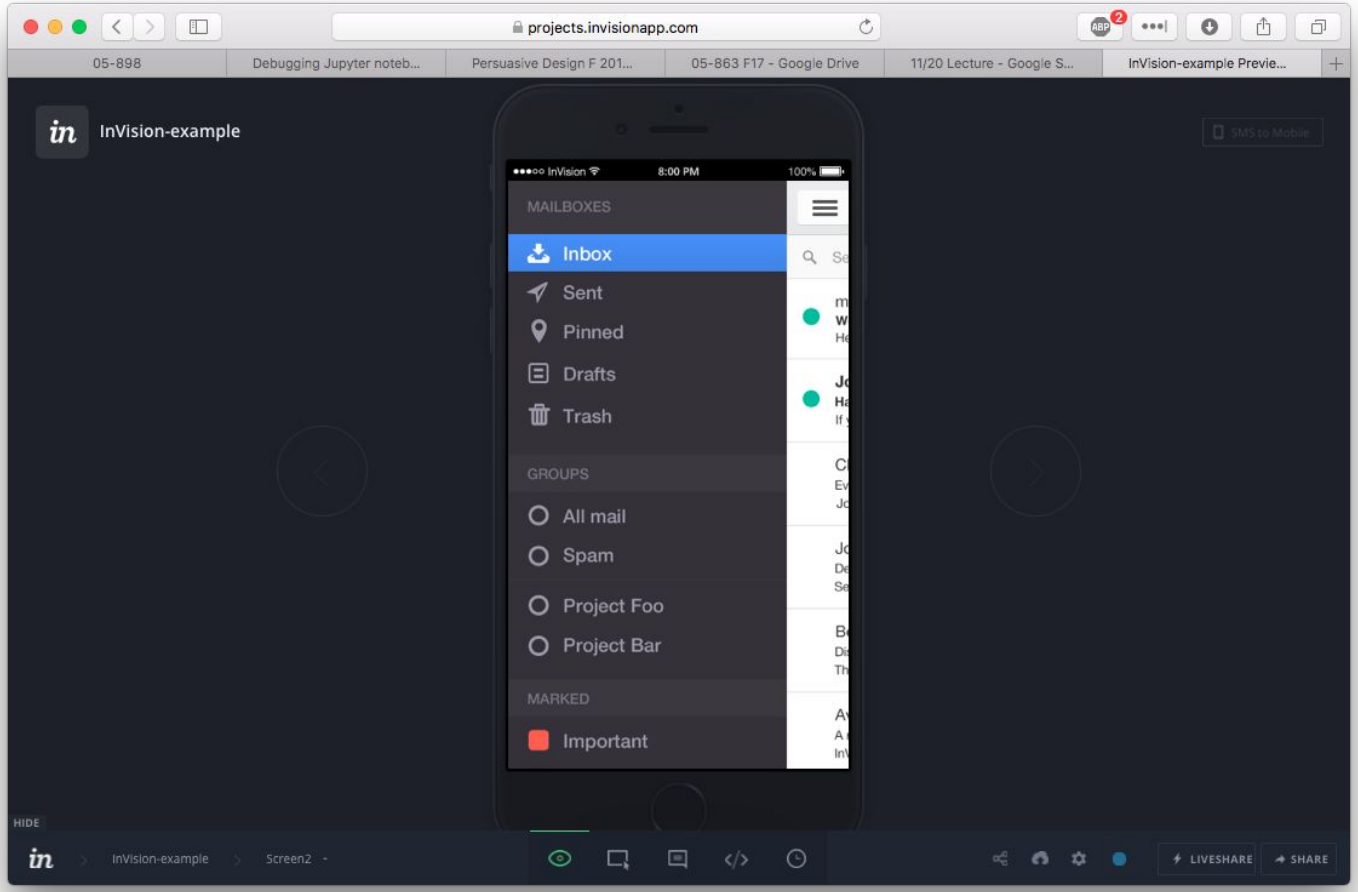
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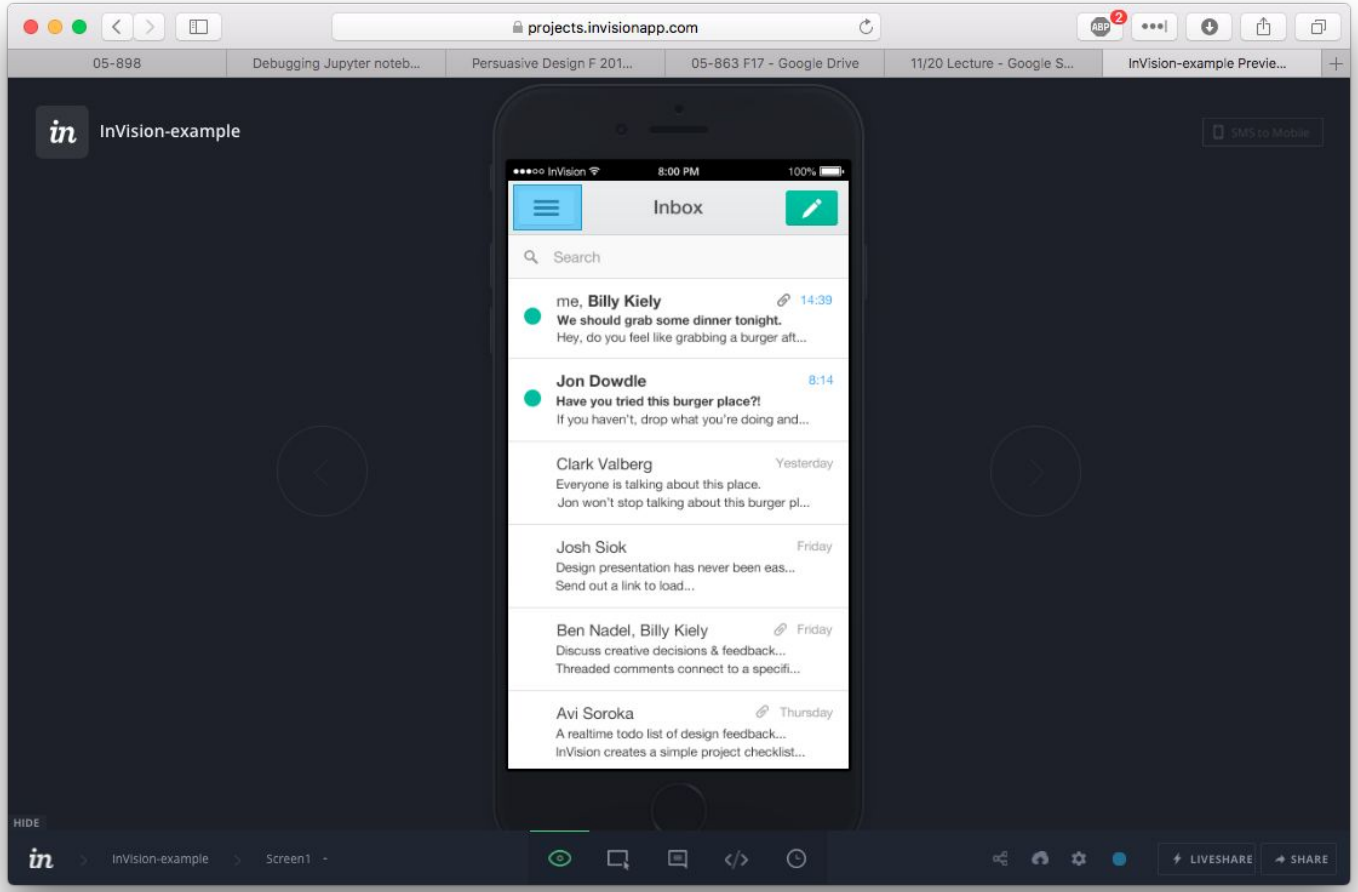
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Example:

tinyurl.com/alex-invision

	Reasons to use	Reasons not to use	Recommended
Powerpoint	Most people have access, are familiar with tools		7/10
Adobe XD (Experience Design)	Drag ‘n’ drop linking (no coding required!) Can export still screens.	Part of Adobe CC, which is expensive after the trial runs out	9/10
Adobe Photoshop (Adobe Ps)	Great for complex visuals and hi-fi mockups	Can’t link screens to each other, must export to Invision/XD	4/10
Axure	Good for prototyping complex interactions, Generates HTML file	Expensive after 30 day trial, Steep learning curve compared to other tools	7/10
HTML	Can be faster if you’re used to coding	Animations challenging if unfamiliar with JavaScript	4/10
Balsamiq	Super simple by design. Great for lo-fi mockups.	Linking screens is pretty basic. You have to recreate hi-fi screens with another program	8/10
InVision	Industry standard, used by all of us regularly. Commenting tools.	Can’t create screens in InVision, must import from Ps/Sketch	9/10

Additional resources