Adapting to the New UI of OS X Yosemite

Session 209

Mike Stern
User Experience Evangelist

Rachel Goldeen
Cocoa Software Engineer

Patrick Heynen
Cocoa Engineering Manager

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Introduction

Introduction

Yosemite brings a fresh look to the Mac

Introduction

Yosemite brings a fresh look to the Mac

Understand what has changed and why

Introduction

Yosemite brings a fresh look to the Mac

Understand what has changed and why

Getting the most out of the New UI in Cocoa

Design Principles

Developer's Tour of Yosemite

Vibrancy

Fonts, Colors, and Artwork

App Compatibility

Design Principles

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App Compatibility

Design Themes

Mike Stern
User Experience Evangelist

Not an engineer

↓

2014

2014 Yosemite

2014 Yosemite

2001 Cheetah

2014 Yosemite

2001 Cheetah

2014 Yosemite

Mavericks

Mountain Lion

Lion

Snow Leopard

Leopard

Tiger

Panther

Jaguar

Puma

2001 Cheetah

Finder File Edit View Go Window Help

Mon 9:41 AM

Pictures For Grandma

Search

Favorites

- Dropbox
- AirDrop
- iCloud
- Desktop
- mikestern
- Applications
- Documents

Devices

Shared

Tags

IMG_01458.jpeg

IMG_01474.jpeg

IMG_01523.jpeg

10 items, 20.95 GB available

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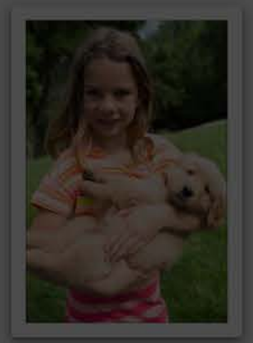

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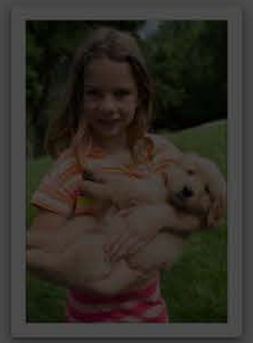

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Simplicity

HELLO FROM
CALIFORNIA

JUL
17

JUL
17

Mavericks

Yosemite

JUL
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30
17

JUL
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30
17

JUL
17

Lucida Grande

Helvetica Neue

Lucida Grande

Lucida Grande

Helvetica Neue

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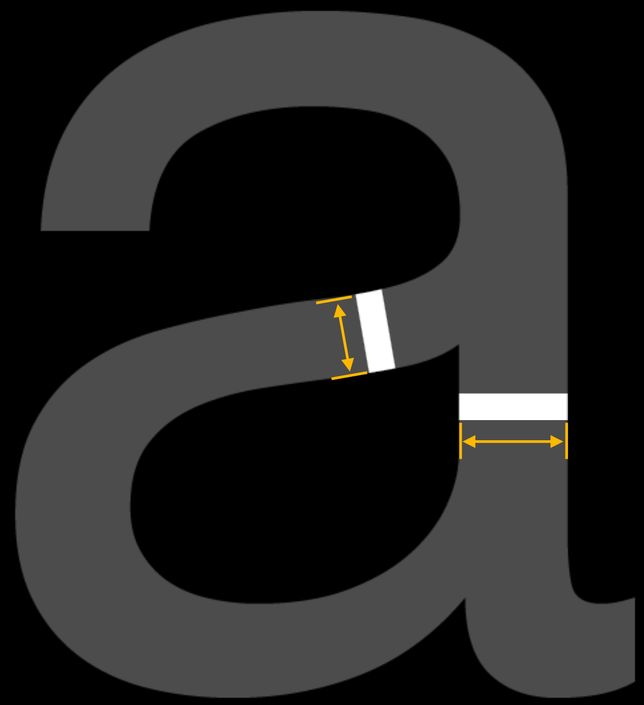
Lucida Grande

Helvetica Neue

1:1.73

Lucida Grande



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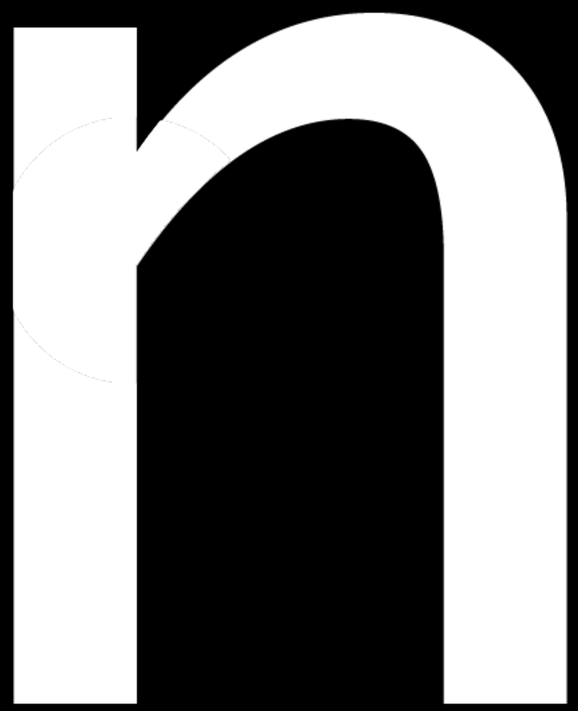
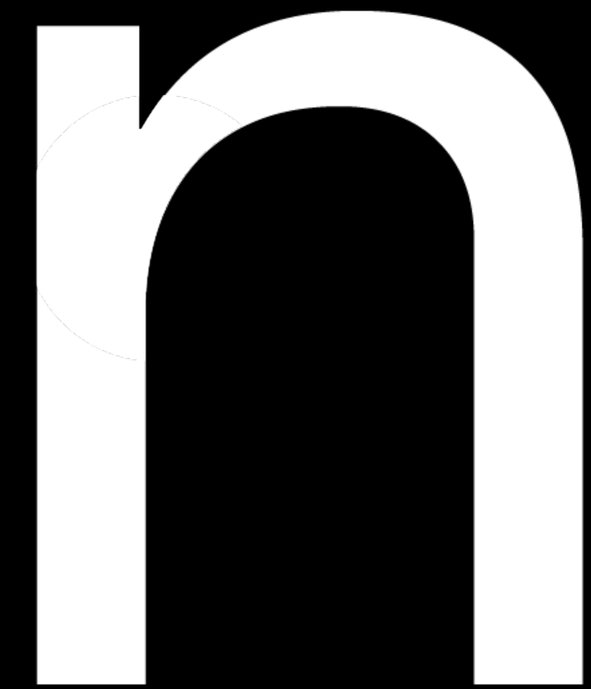
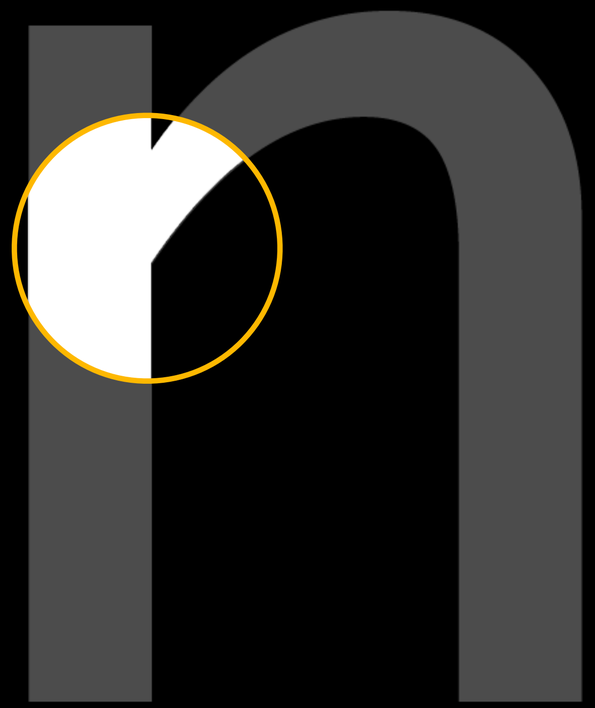


Lucida Grande



Helvetica Neue



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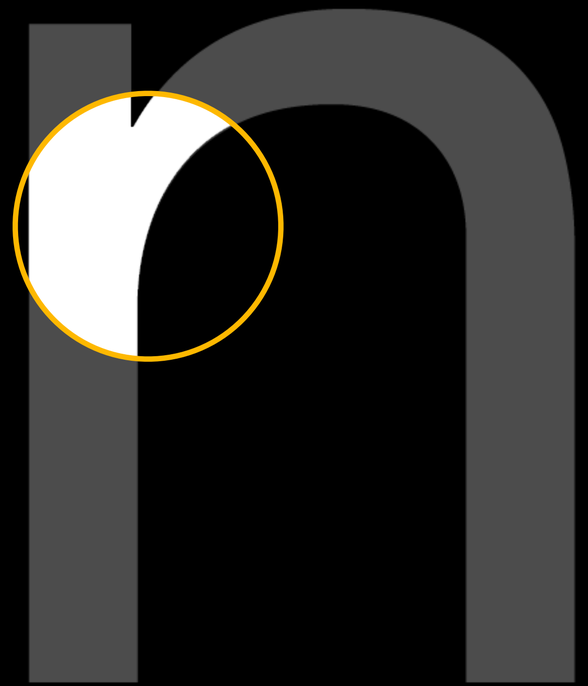
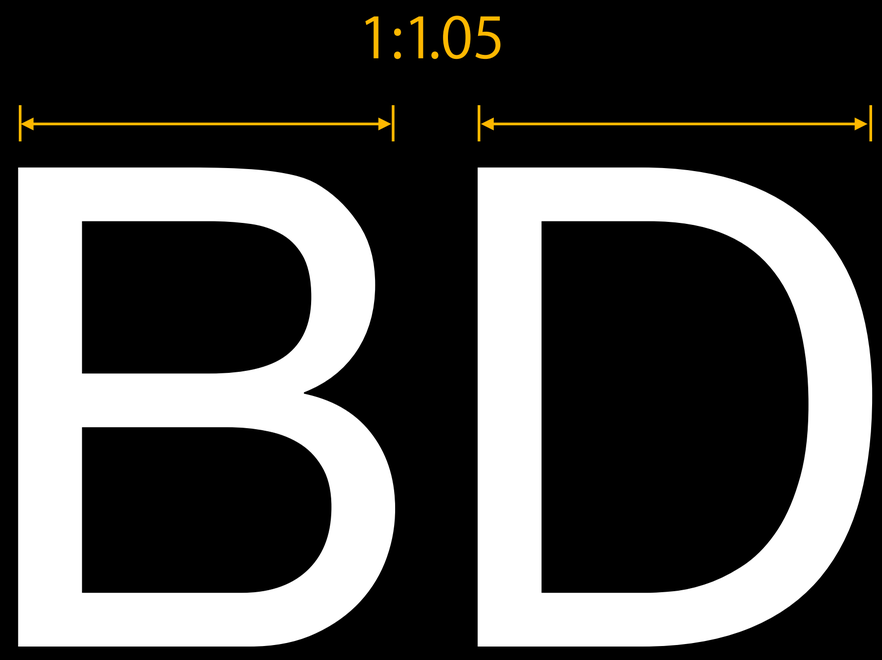


Helvetica Neue

Lucida Grande



Helvetica Neue

Consistency

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JUL
17

Helvetica Neue

Notes File Edit Format View Window Help

Wed 9:41 AM

Notes — Potential dog names

iCloud

Notes

Potential dog names
Today

Dog sitters
Today

Running routes
Today

Salsa recipes
Today

Directions to Big Lick
Today

Band names
Today

San Francisco bookstores
4/14/14

Movies
12/19/13

May 21, 2:59 PM

Potential dog names

Pickle
Gesso
Kuma
Shorty
Miso
Lucky
Rocket
Sparky
Dakar
Paris
Riga
Tug Boat
Jello

Notes File Edit Format View Window Help

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Shorty
Miso
Lucky
Rocket
Sparky
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Paris
Riga
Tug Boat
Jello

Logic Pro X File Edit Track Navigate Record Mix View Window 1 Help

Wed 9:41 AM

MySong - Tracks

Region: MIDI Thru

Groups

Track: Lead Vocal

Edit Functions View

Snap: Smart Drag: No Overlap

1 Drummer

2 Synth Pad Layers

5 Electric Piano

6 Drum Machine

7 Guitar

8 Funk Bass

9 Lead Vocal

10 Grand Piano

Synth Lead

Setting Setting

Input 1

Channel EQ Compressor Ensemble Space D

Gain Compressor Multipr Channel EQ

Bus 1

Stereo Out

Read Read

0.0 -13 14.0 -10

I R Bnce

M S M S

Lead Vocal Stereo Out

Track File

Edit View Flex Pitch

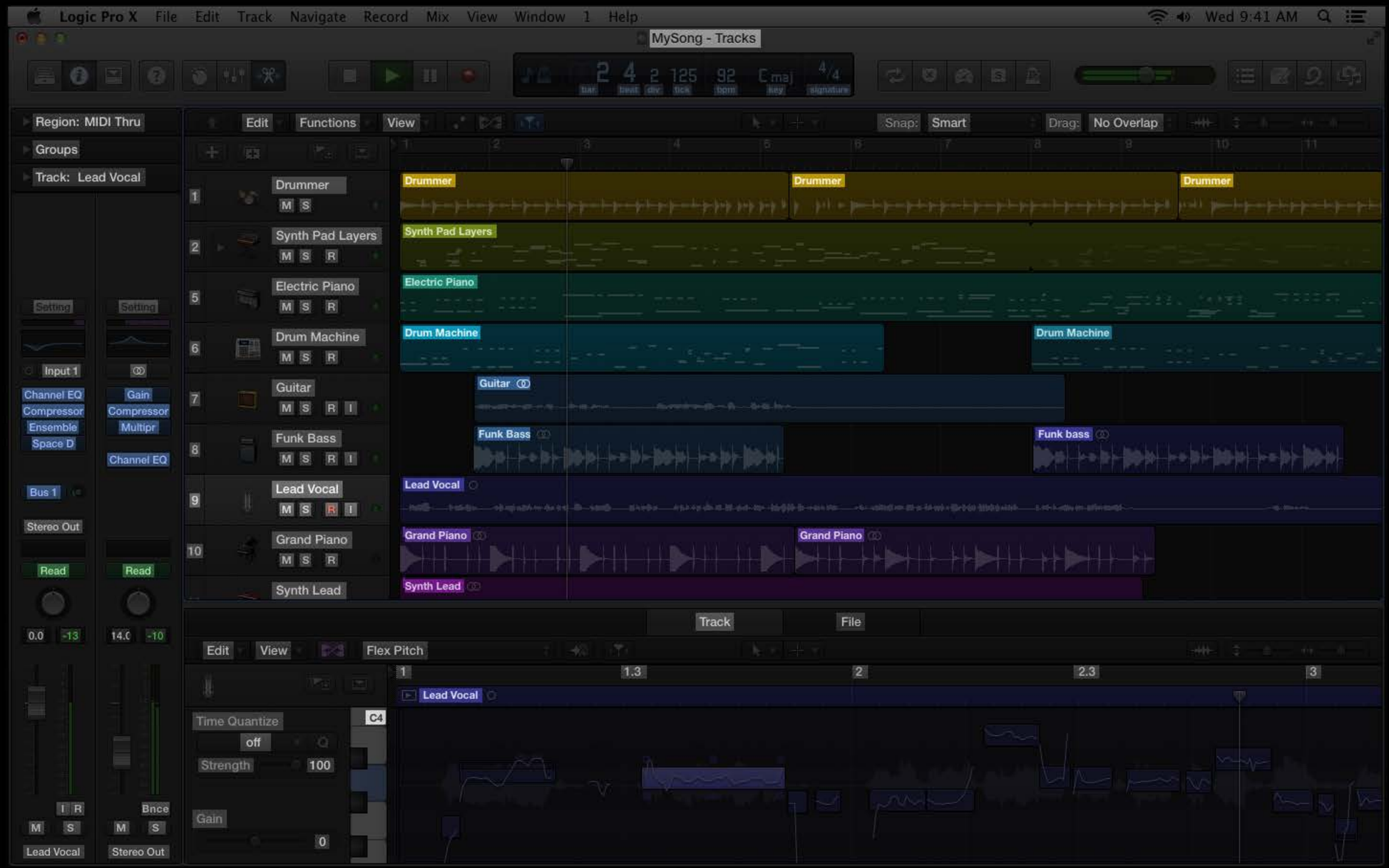
Time Quantize off Q

Strength 100

Gain 0

C4

Lead Vocal


Logic Pro X File Edit Track Navigate Record Mix View Window 1 Help
Wed 9:41 AM
MySong - Tracks
Region: MIDI Thru
Groups
Track: Lead Vocal
Edit Functions View
Snap: Smart
Drag: No Overlap
1 Drummer
2 Synth Pad Layers
5 Electric Piano
6 Drum Machine
7 Guitar
8 Funk Bass
9 Lead Vocal
10 Grand Piano
Synth Lead
Drummer
Synth Pad Layers
Electric Piano
Drum Machine
Guitar
Funk Bass
Funk bass
Lead Vocal
Grand Piano
Synth Lead
Setting
Input 1
Channel EQ
Compressor
Ensemble
Space D
Gain
Compressor
Multipr
Channel EQ
Bus 1
Stereo Out
Read
Lead Vocal
Stereo Out
Track
File
Edit View Flex Pitch
Time Quantize
off
Strength
100
Gain
0
C4
Lead Vocal

Logic Pro X
File
Edit
Track
Navigate
Record
Mix
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Window
1
Help
Wed 9:41 AM
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off
Strength
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Gain
0
Lead Vocal

Lucida Grande

Helvetica Neue

Finder File Edit View Go Window Help

Mon 9:41 AM

Pictures For Grandma

Search

Favorites

Dropbox

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iCloud

Desktop

mikestern

Applications

Documents

Devices

Shared

Tags

IMG_01458.jpeg

IMG_01474.jpeg

IMG_01523.jpeg

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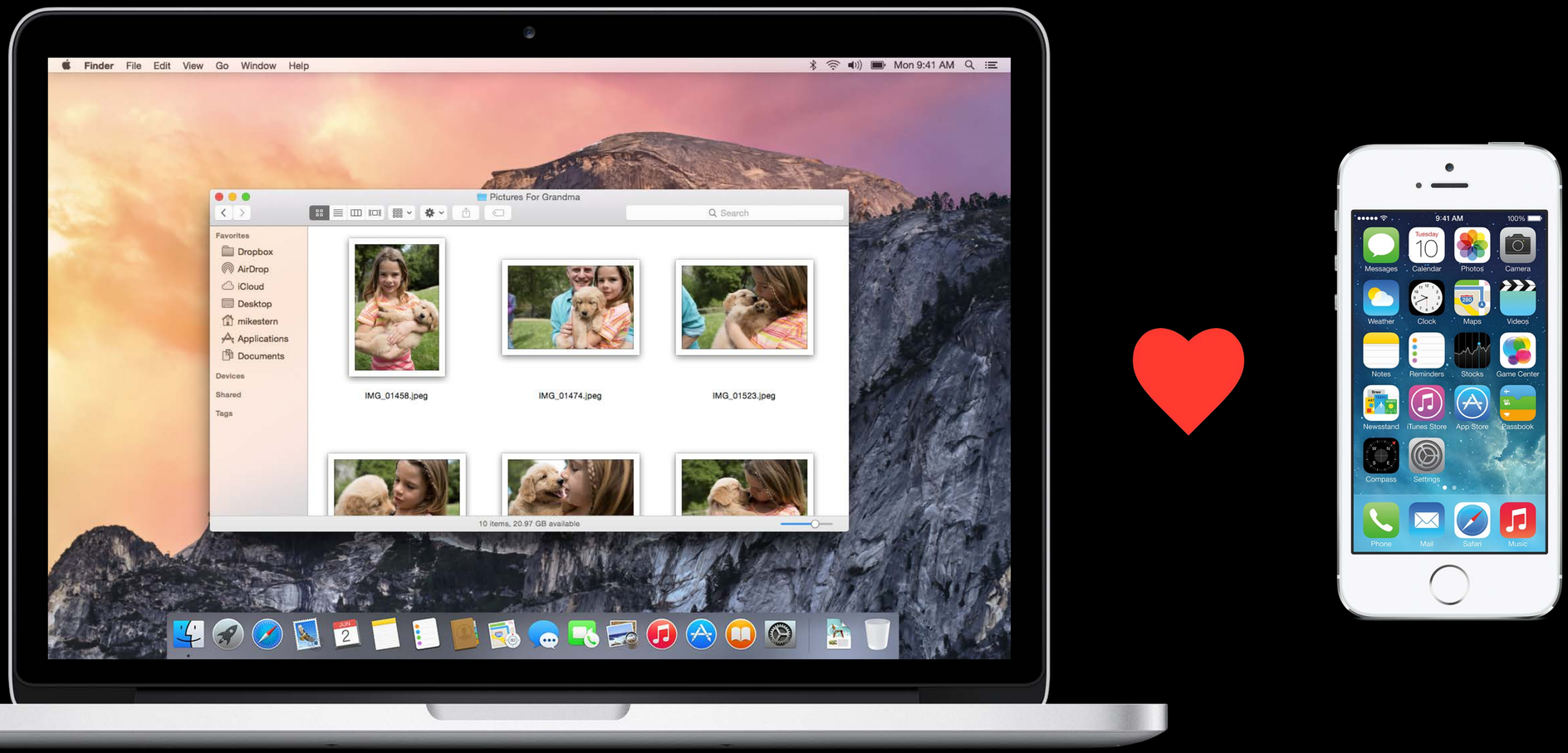
9:41 AM
100%
Messages
Calendar
Photos
Camera
Weather
Clock
Maps
Videos
Notes
Reminders
Stocks
Game Center
Newsstand
iTunes Store
App Store
Passbook
Compass
Settings
Phone
Mail
Safari
Music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9:41 AM
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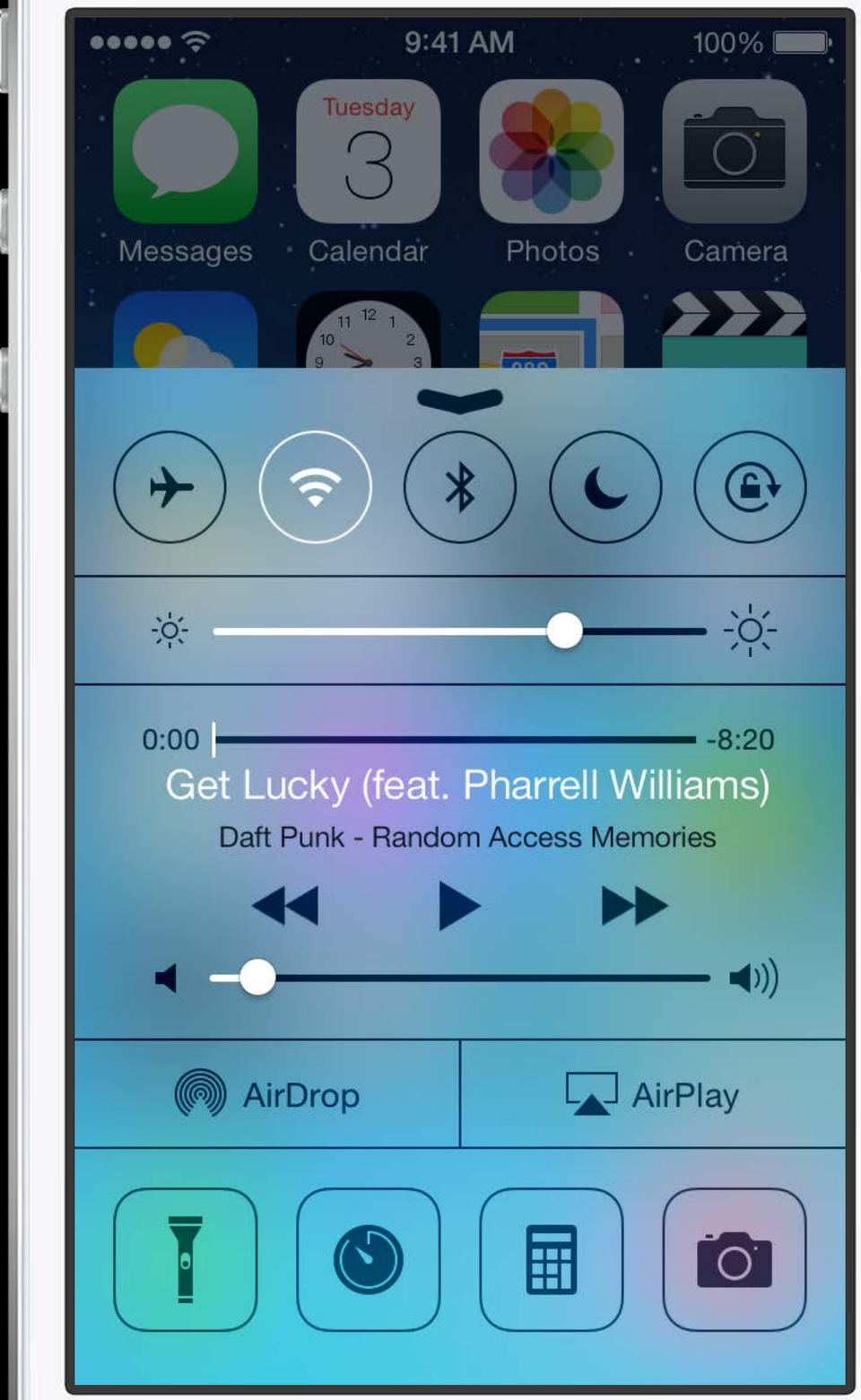
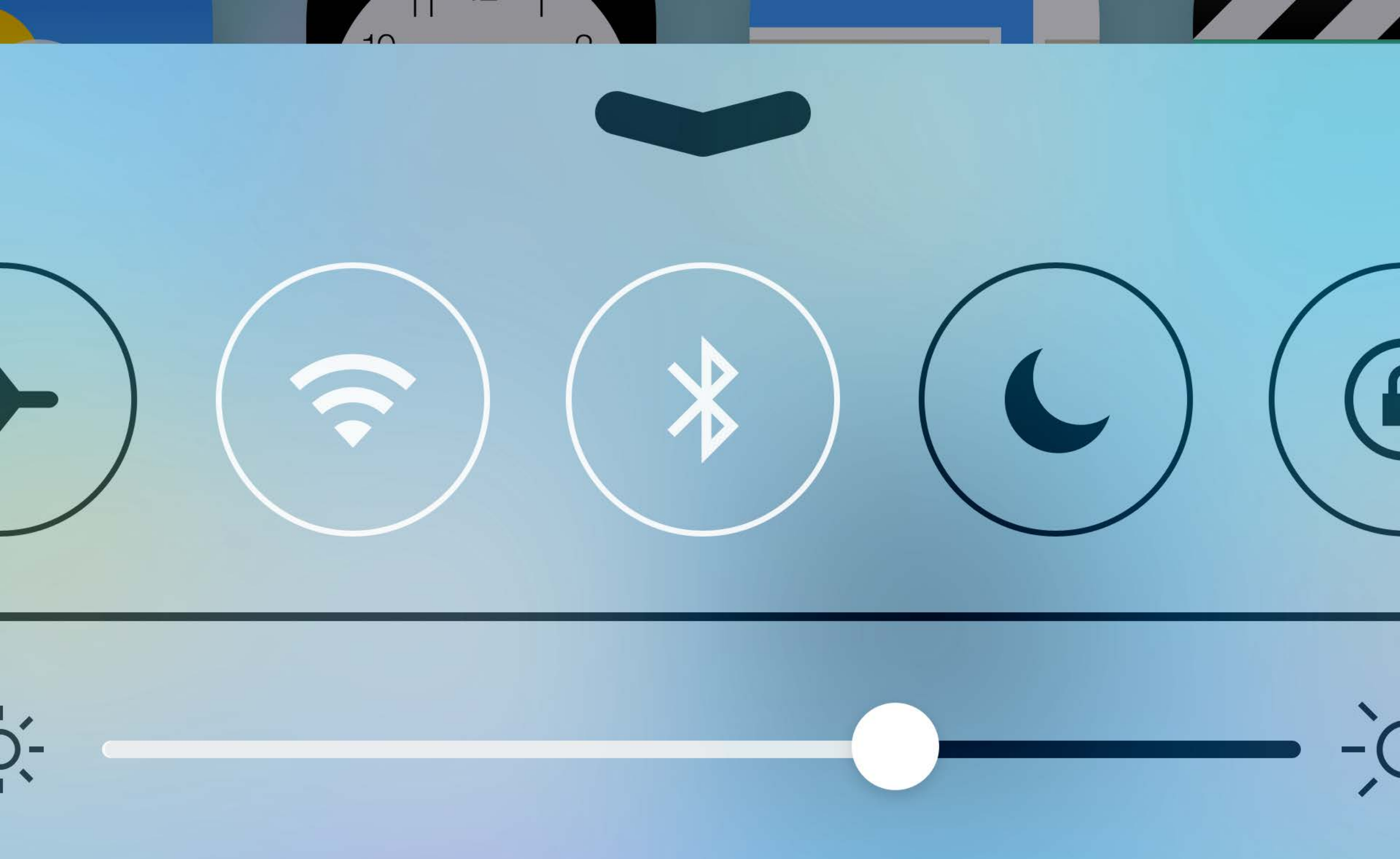
Messages
Calendar
Photos
Camera
Weather
Clock
Maps
Videos
Notes
Reminders
Stocks
Game Center
Newsstand
iTunes Store
App Store
Passbook
Compass
Settings
Phone
Mail
Safari
Music

Depth

9:41 AM
100%
Today
All
Missed
Tuesday,
June 3rd
Partly cloudy currently. It's 72°; the high today was forecast as 76°.
Calendar
9
WWDC
10
11
Noon


9:41 AM
100%
Tuesday
3
Messages
Calendar
Photos
Camera
0:00
-8:20
Get Lucky (feat. Pharrell Williams)
Daft Punk - Random Access Memories
AirDrop
AirPlay



Finder File Edit View Go Window Help

Mon 9:41 AM

Today Notifications

Monday,
June 2nd

"Cocoa Presentation" is currently in progress, and it started 10 minutes ago.

Social

Calendar

3:24 PM Cocoa Presentation
4 PM
5 PM Designing Intutive User Interfaces...
6 PM
7 PM Dinner
8 PM Drinks!
9 PM

Weather

3:20 PM Cupertino 75°

World Clock

Edit

Pictures For Grandma

Search

Favorites
Dropbox
AirDrop
iCloud
Desktop
mikestern
Applications
Documents

Devices
Shared
Tags

IMG_01458.jpeg
IMG_01474.jpeg
IMG_01523.jpeg

10 items, 20.97 GB available

9:41 AM
100%
Monday
10
Messages
Calendar
Photos
Camera
Weather
Clock
Maps
Videos
Notes
Reminders
Stocks
Game Center
Newsstand
iTunes Store
App Store
Passbook
Compass
Settings
Phone
Mail
Safari
Music

9:41 AM
100%
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Documents
Devices
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IMG_01523.jpeg
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johnnyappleseed

Search

	Size	Date Modified	Kind
Applications	--	4/10/14	Folder
Desktop	--	5/13/14	Folder
Documents	--	9:41 AM	Folder
Downloads	--	5/13/14	Folder
Movies	--	Yesterday	Folder
Music	--	4/10/15	Folder
Pictures	--	11/17/13	Folder
Public	--	4/12/14	Folder
Sites	--	2/8/13	Folder

johnnyappleseed

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Public	--	4/12/14	Folder
Sites	--	2/8/13	Folder

Public	--	4/12/14	Folder
Sites	--	2/8/13	Folder

9 selected, 670.57 GB available

Public	--	4/12/14	Folder
Sites	--	2/8/13	Folder

9 selected, 670.57 GB available

Content-Focused

Safari File Edit View History Bookmarks Window Help

Mon 9:41 AM

apple.com

Safari File Edit View History Bookmarks Window Help Mon 9:41 AM

apple.com

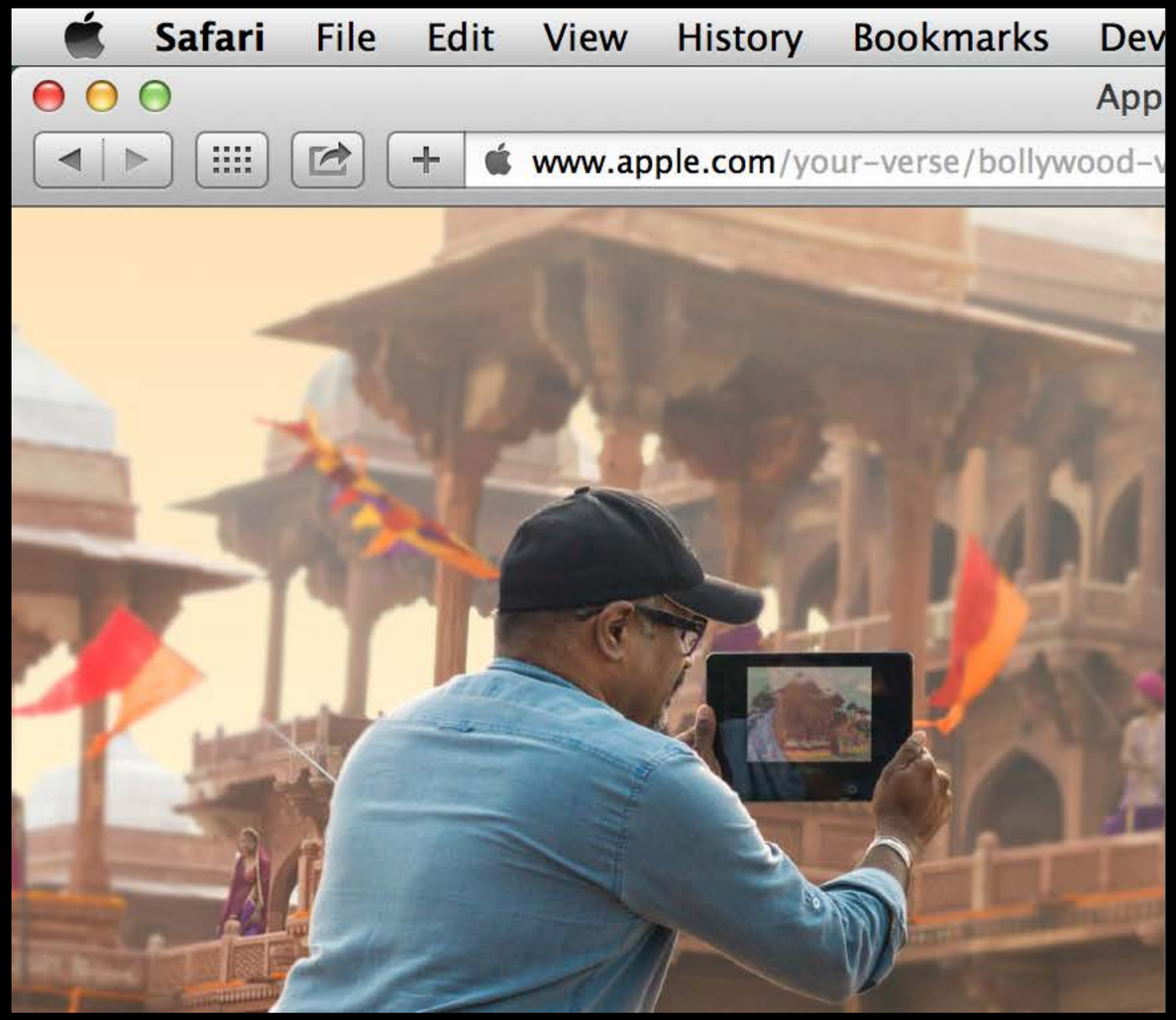
Safari File Edit View History Bookmarks Develop Window Help

Mon 9:41 PM

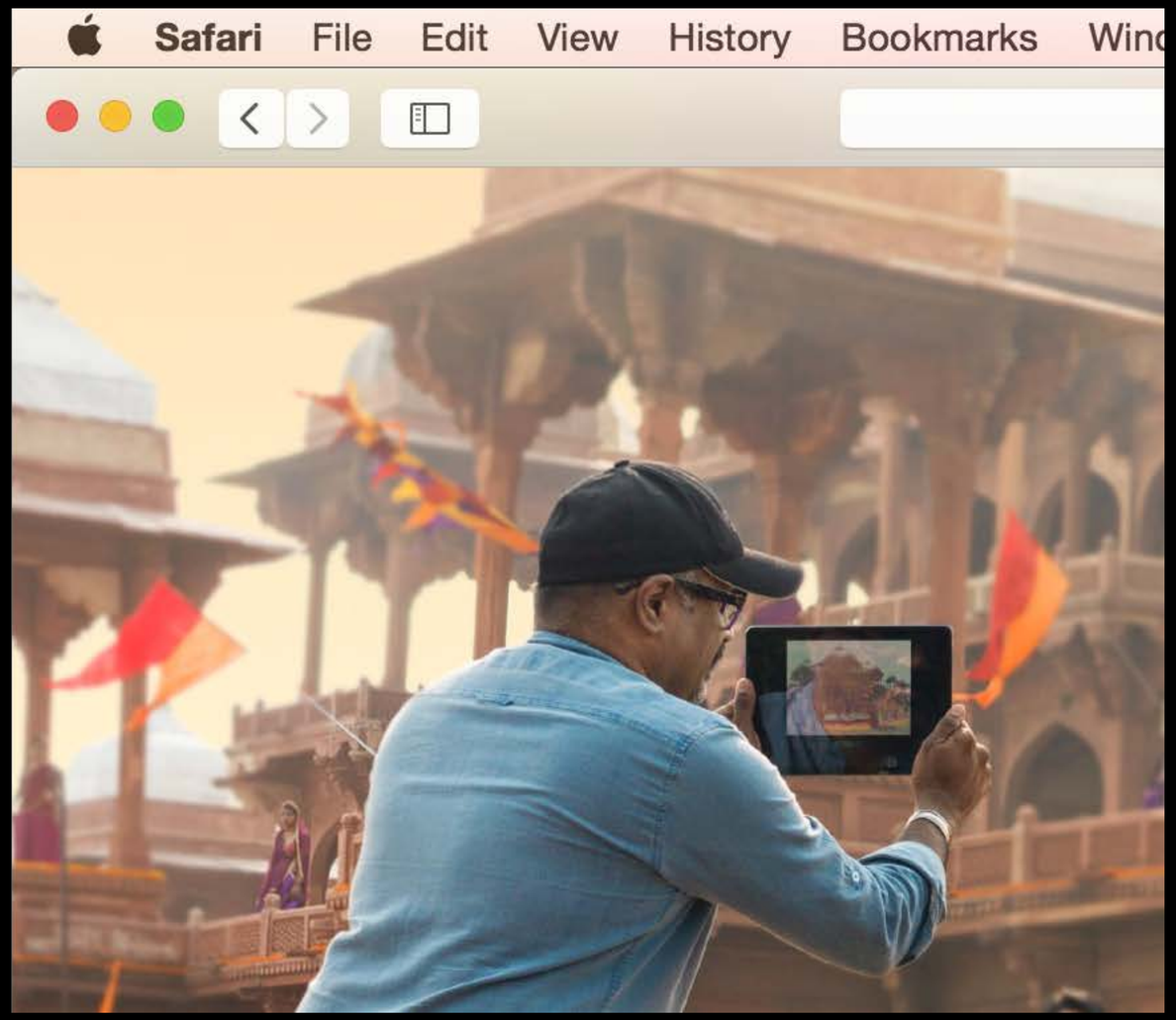
Apple – iPad – Bollywood Vision

www.apple.com/your-verse/bollywood-vision/

Reader



Mavericks



Yosemite

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Mon 9:41 AM

apple.com

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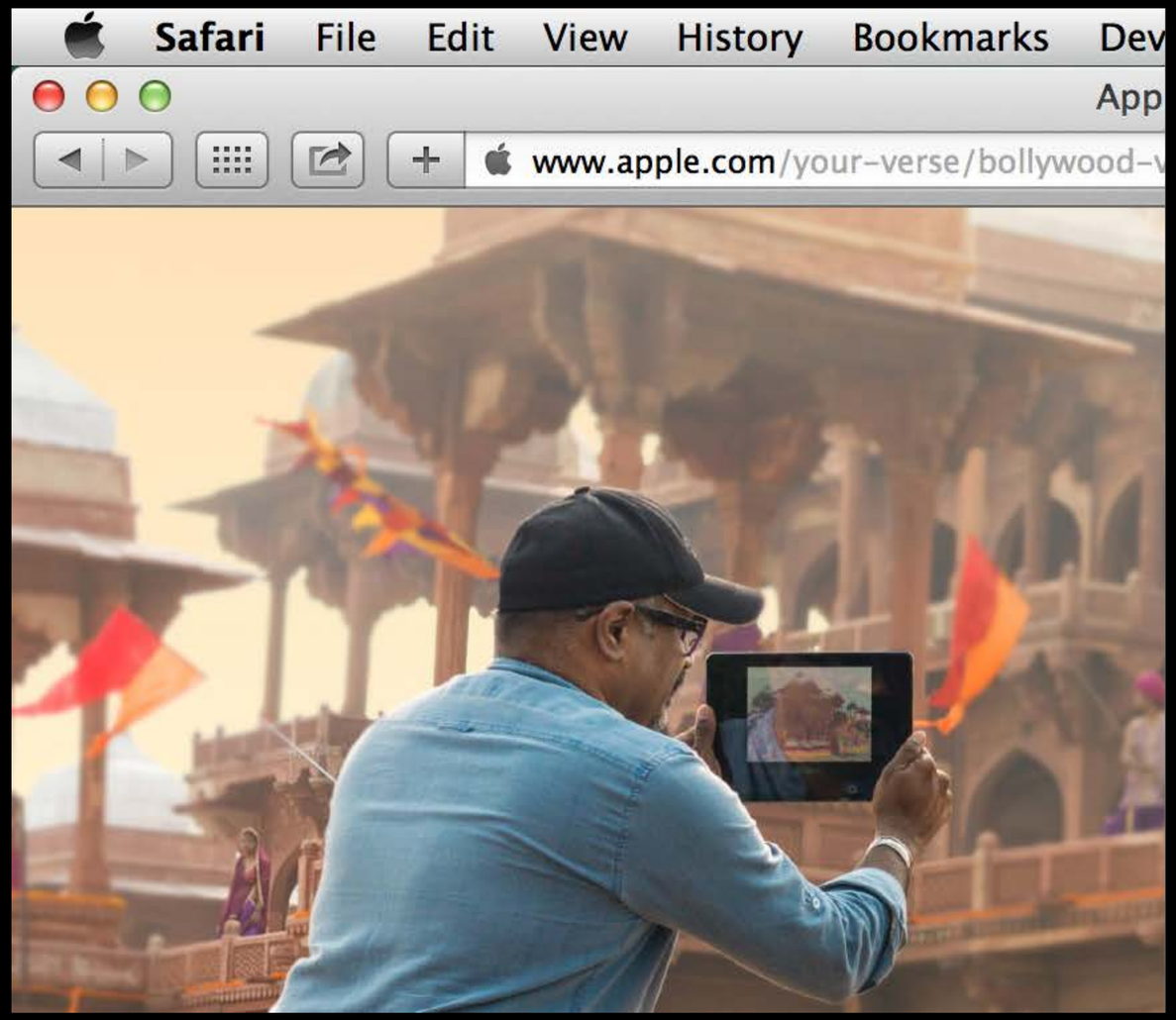
apple.com

Safari File Edit View History Bookmarks Window

apple.com



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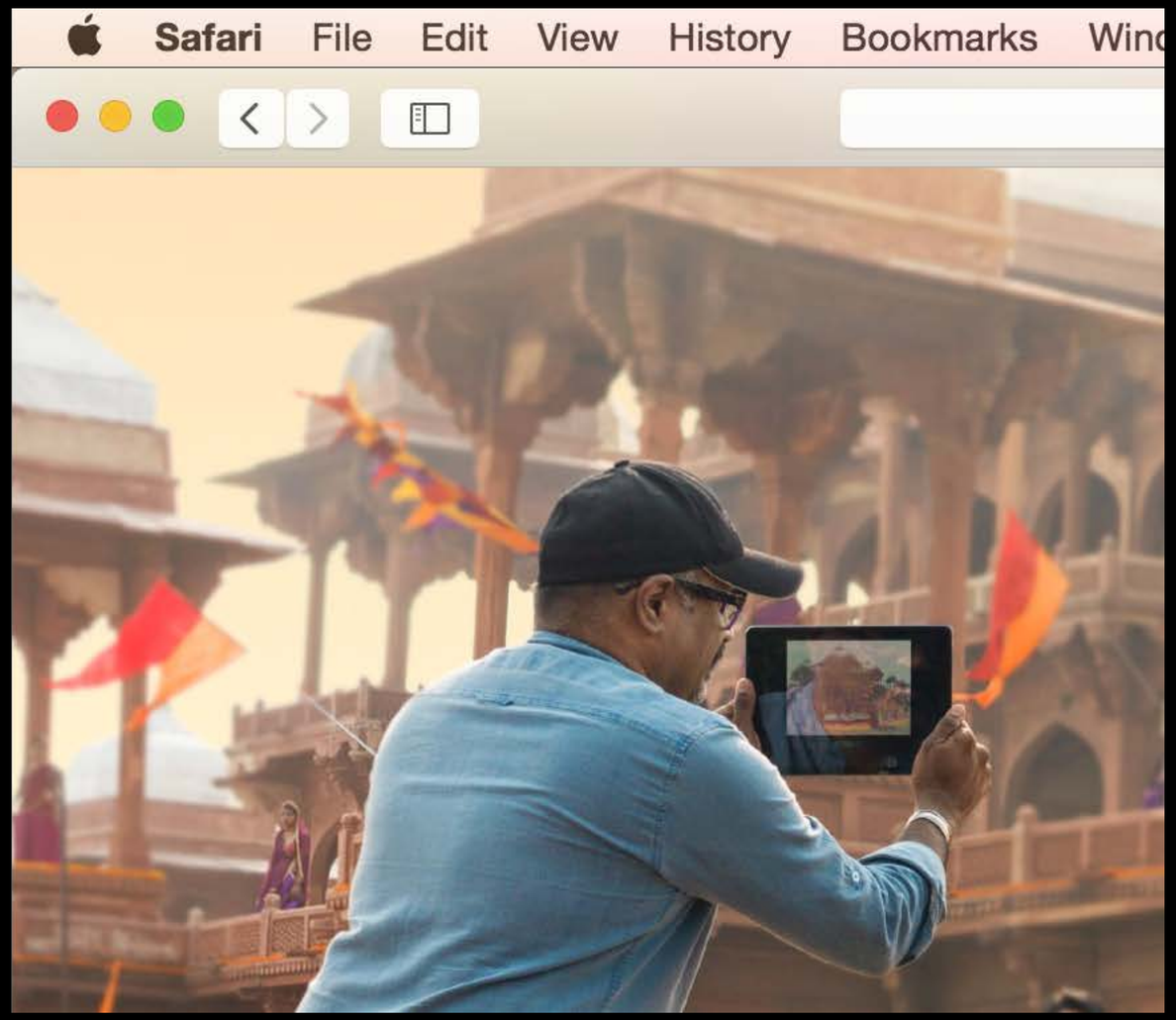

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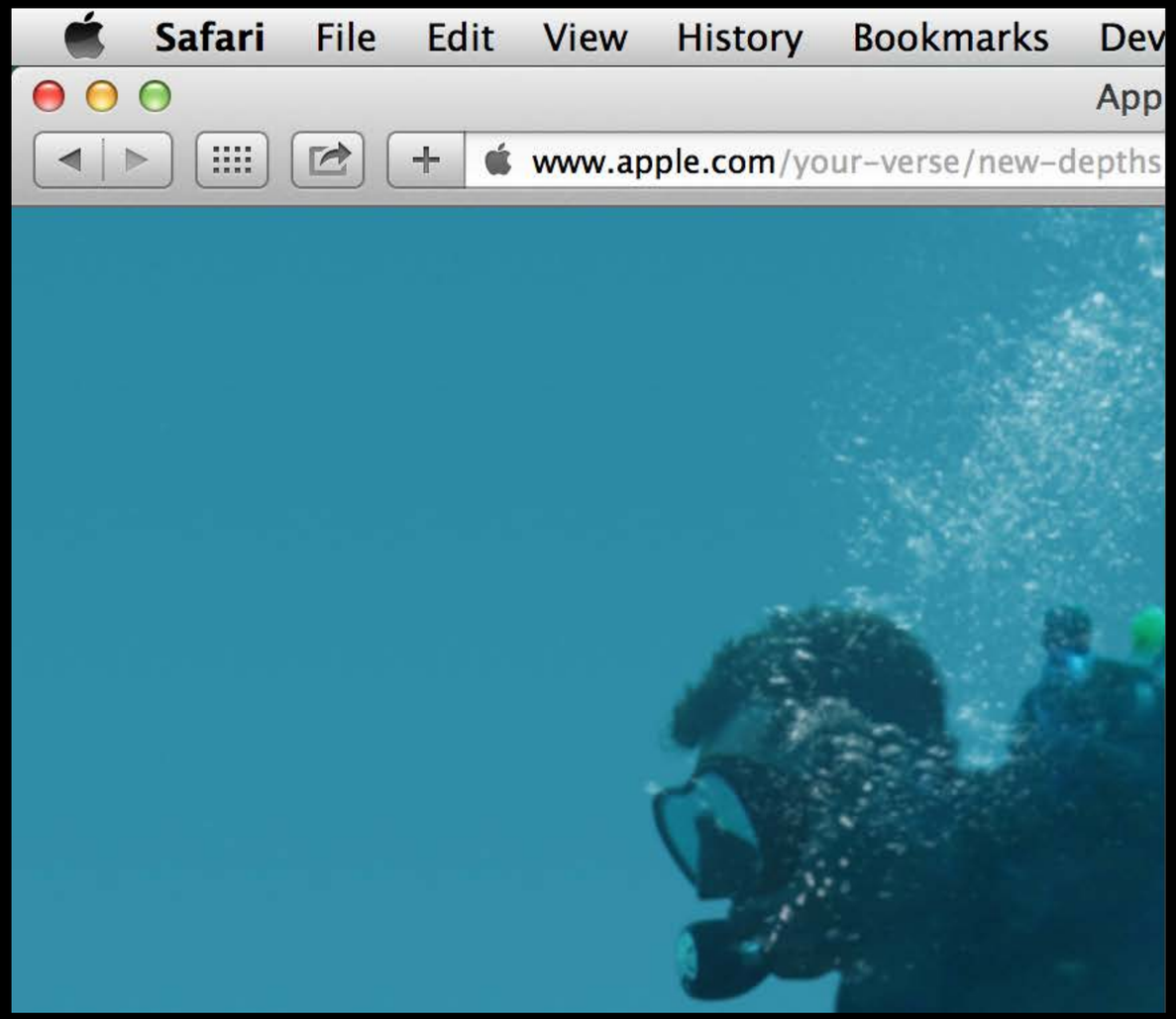

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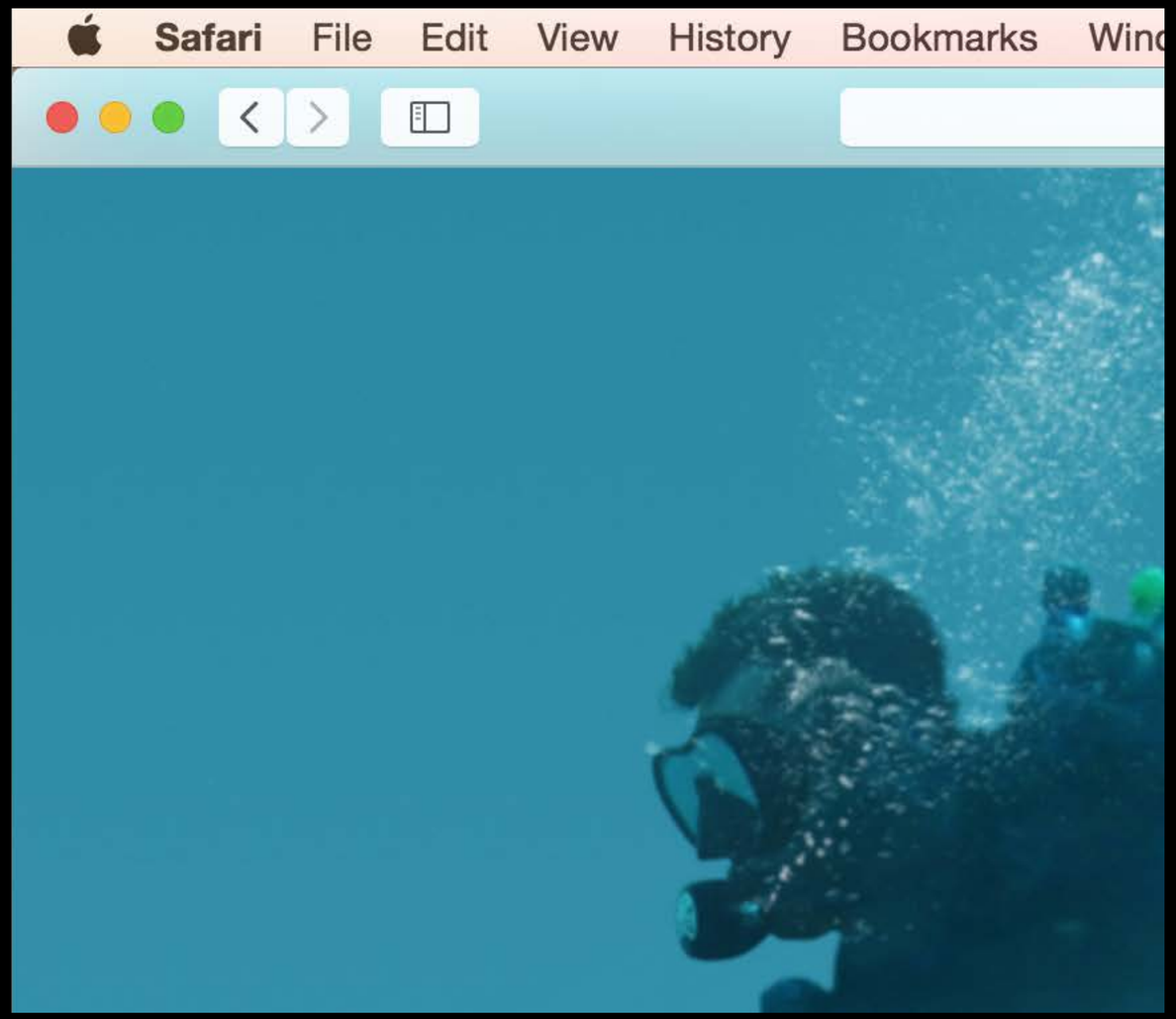

Yosemite

Developer's Tour of Yosemite

Rachel Goldeen
Cocoa Software Engineer

Finder File Edit View Go Window Help

Tue 9:41 AM

Mountain Biking with Jordan

Search

Favorites

All My Files

AirDrop

Applications

Desktop

Documents

Downloads

Devices

Shared

Tags

MTBwJordan1.jpg

MTBwJordan2.jpg

2 items, 21.16 GB available

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Safari File Edit View History Bookmarks Window Help

Tue 9:41 AM

Apple Inc.

WWDC2014

News Schedule Sessions Labs Events Tickets More

WWDC14

Apple Worldwide Developers Conference. June 2–6, San Francisco.

Safari File Edit View History Bookmarks Window Help

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Apple Inc.

WWDC2014

News Schedule Sessions Labs Events Tickets More

WWDC14

Apple Worldwide Developers Conference. June 2–6, San Francisco.

System Preferences Edit View Window Help

Tue 9:41 AM

Dock

Show All

Search

Size:

Small Large

Magnification:

Min Max

Position on screen: Left Bottom Right

Minimize windows using: Genie effect

Double-click a window's title bar to minimize

Minimize windows into application icon

Animate opening applications

Automatically hide and show the Dock

Show indicators for open applications

?

System Preferences Edit View Window Help

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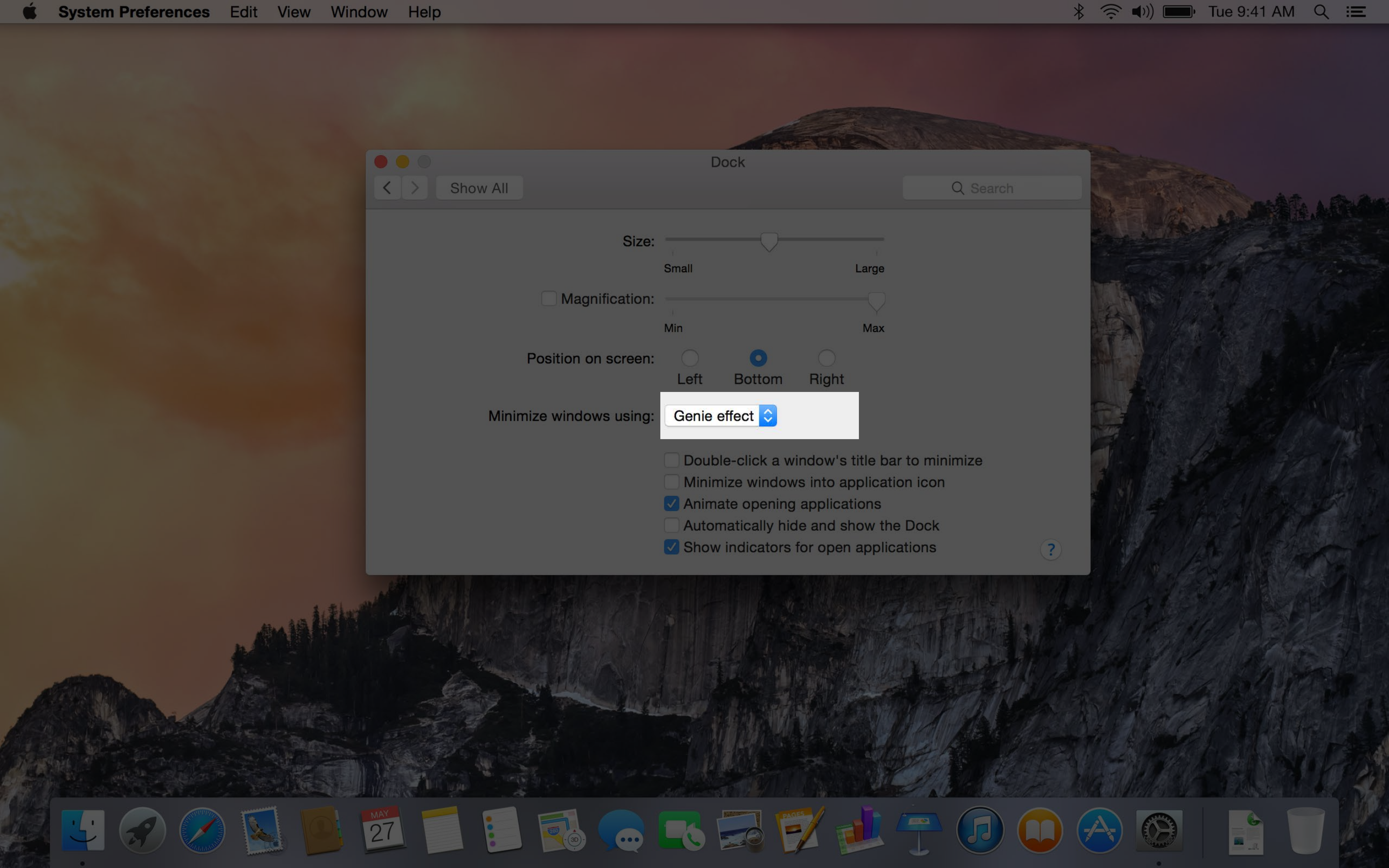
System Preferences
Edit
View
Window
Help
Tue 9:41 AM
Dock
Show All
Search
Size:
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Large
Magnification:
Min
Max
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- [ ] Automatically hide and show the Dock
- [x] Show indicators for open applications

?

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Dock

Show All

Search

Size:

Small Large

Magnification:

Min Max

Position on screen: Left Bottom Right

Minimize windows using: Genie effect

Double-click a window's title bar to minimize

Minimize windows into application icon

Animate opening applications

Automatically hide and show the Dock

Show indicators for open applications

?

Finder File Edit View Go Window Help

Tue 9:41 AM

Today | Notifications

Tuesday,
June 3rd

Calendar

No Events

Reminders

Stocks

DOW J	16,675.50	+ 0.42%
NASDAQ	4,237.07	+ 1.22%
S&P 500	1,911.91	+ 0.60%
AAPL	625.63	+ 1.87%
GOOG	565.95	+ 2.40%

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Weather

7:43 PM
Cupertino

68°

Tomorrow

2 New

Safari File Edit View History Bookmarks Window Help

Tue 9:41 AM

Apple Inc.

Open Image in New Tab
Open Image in New Window

Save Image to “Downloads”
Save Image As…
Use Image as Desktop Picture

Copy Image Address
Copy Image

WWDC14

Apple Worldwide Developers Conference. June 2–6, San Francisco.

Over the past six years, a massive cultural shift has occurred.
It’s changed how we interact with one another. Learn new things.
Entertain ourselves. Do our work. And live our daily lives.
All because of developers and the apps they create.

Calendar File Edit View Window Help

Tue 9:41 AM

Calendars + Day Week Month Year Search

May 1981

Today

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28			May 1	2
3	4	5			8 Jordan's Birthday	9
10	11	12			15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	Jun 1	2	3	4	5	6

Jordan's Birthday

Add Location

May 8, 1981

Alert 1 day before at 9 AM (default)

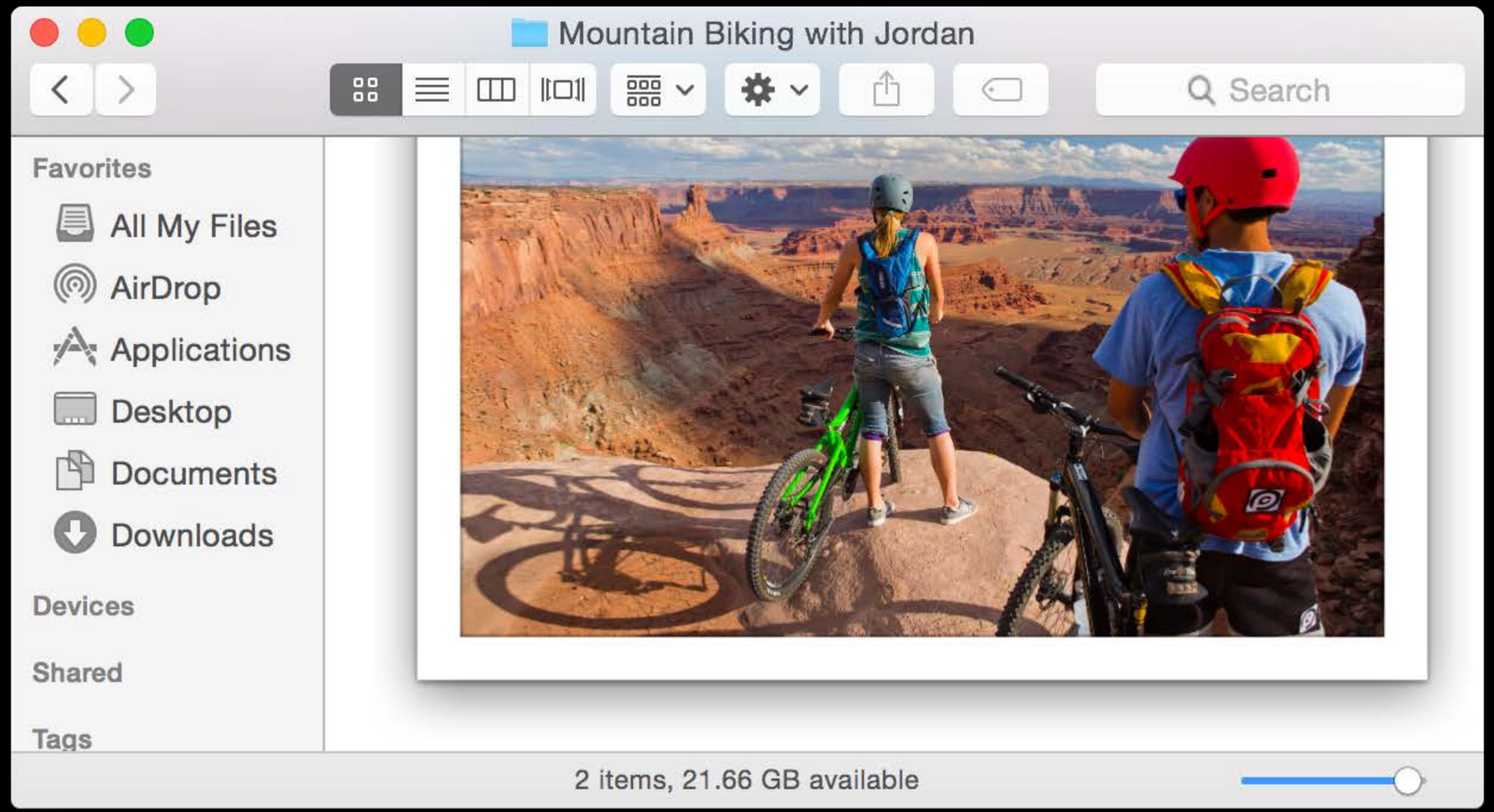
Add Invitees

Add Notes, Attachments, or URL

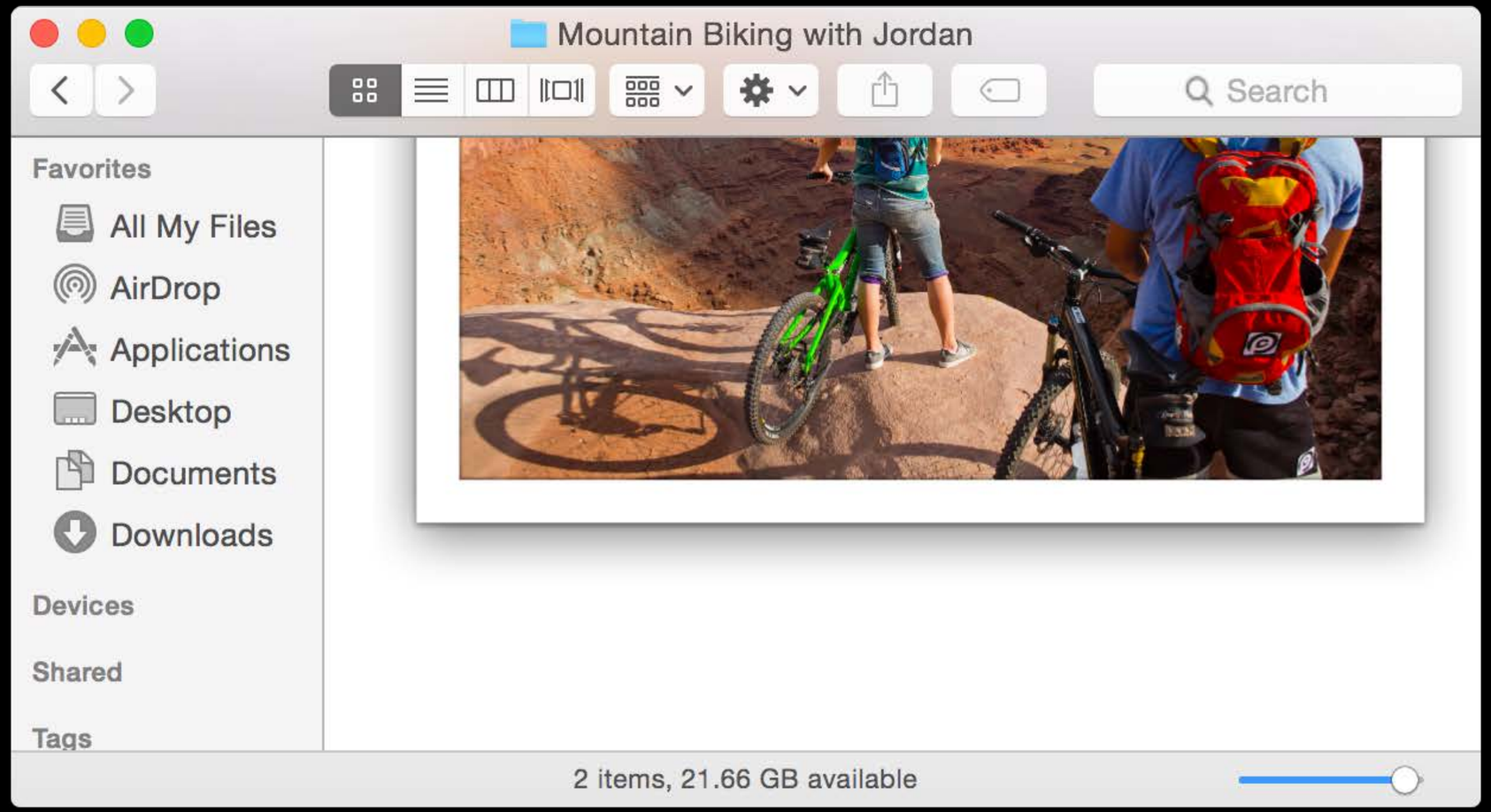
Translucent Toolbars

Translucent Toolbars

Translucent Toolbars

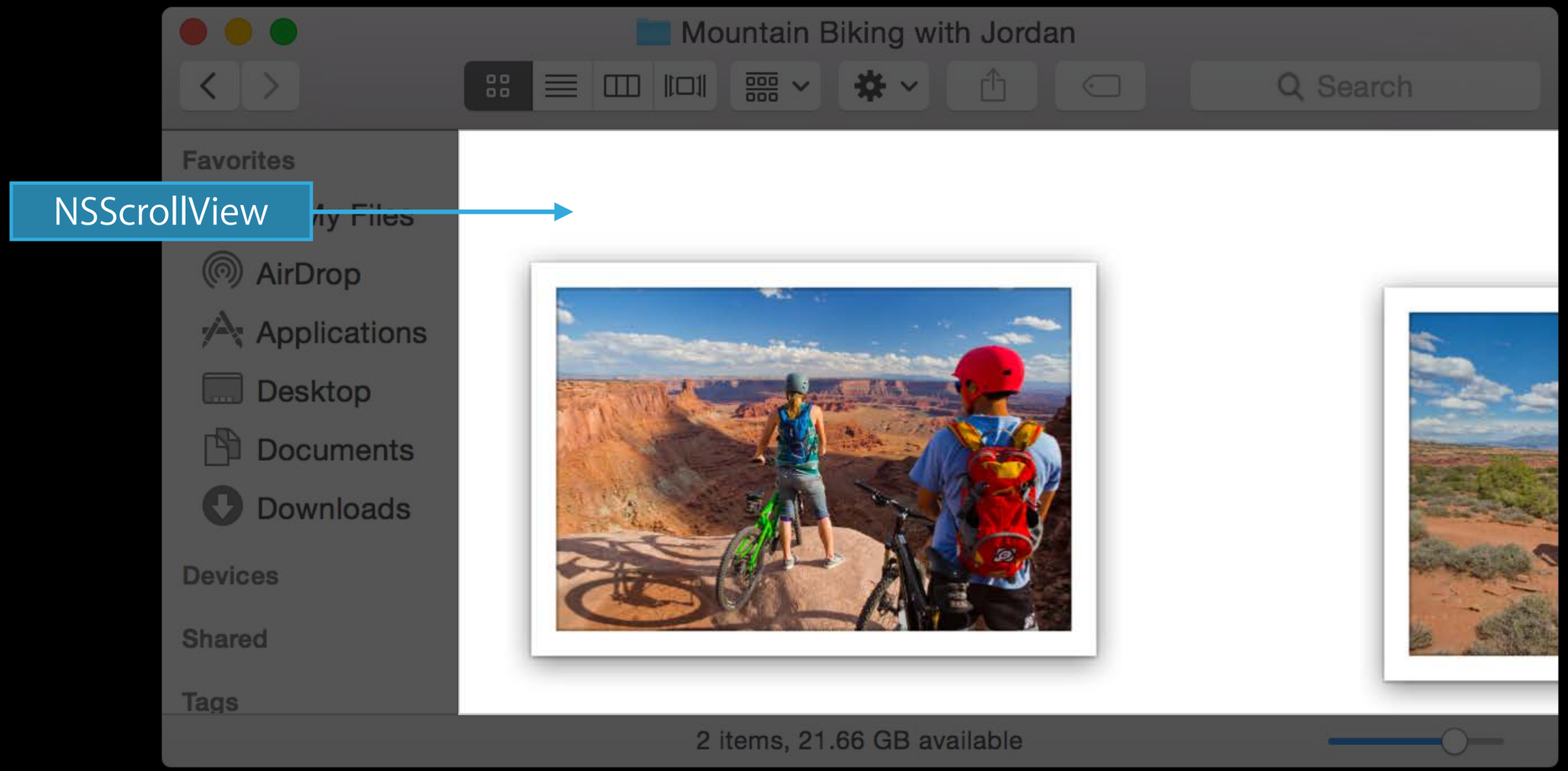


Translucent Toolbars



Translucent Toolbars

Translucent Toolbars



Translucent Toolbars

Without scroll views

NEW

Translucent Toolbars

Without scroll views

Use window style mask NSFullSizeContentViewWindowMask

Translucent Toolbars

Without scroll views

Use window style mask NSFullSizeContentViewWindowMask

```
window.styleMask |= NSFullSizeContentViewWindowMask;
```

Translucent Toolbars

Without scroll views

Use window style mask NSFullSizeContentViewWindowMask

```
window.styleMask |= NSFullSizeContentViewWindowMask;
```

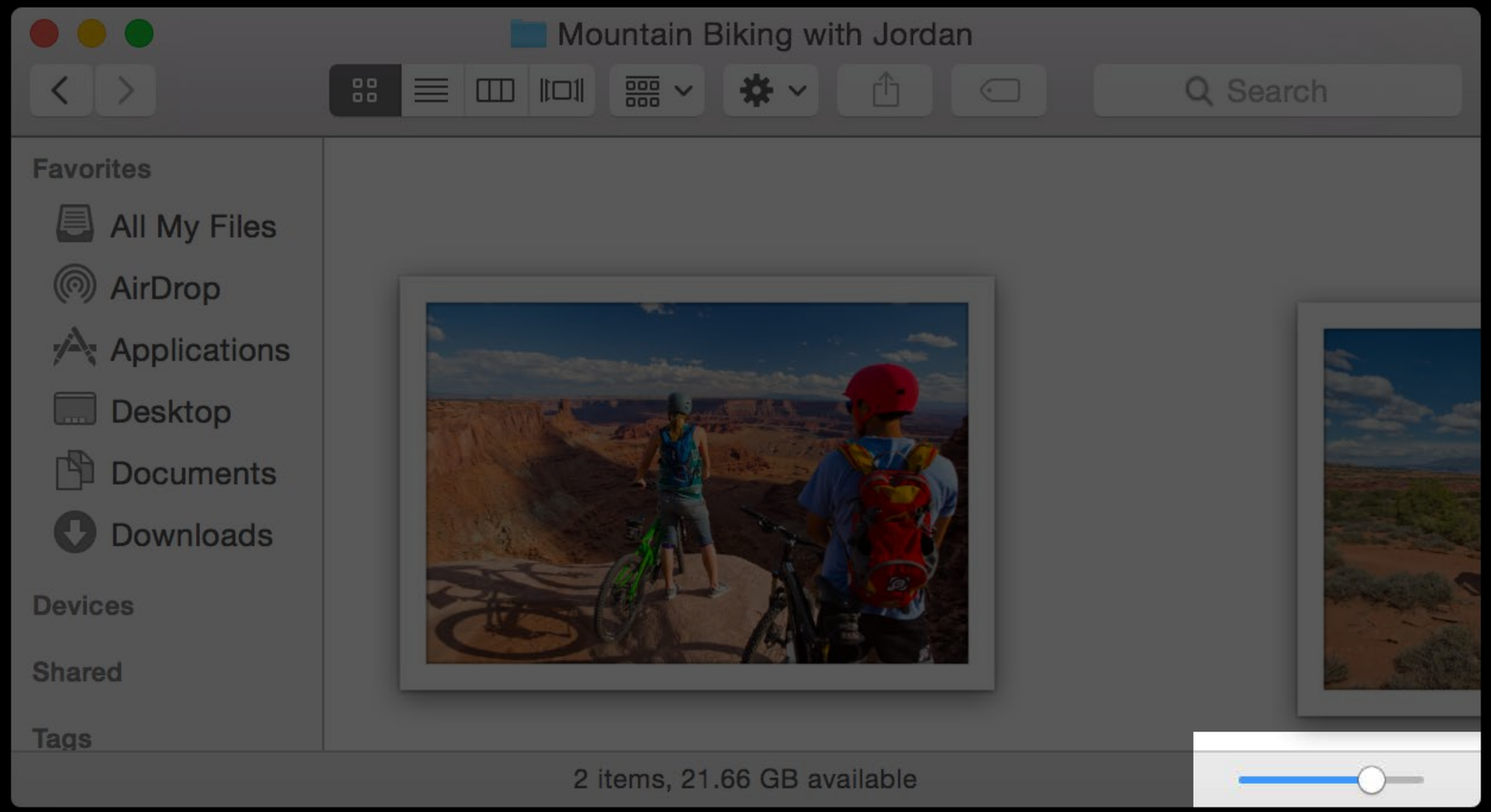
Example: translucent toolbars and titlebars that show and hide

Related Session

• Adopting Advanced Features of the New UI of OS X Yosemite	Marina	Wednesday 2:00PM

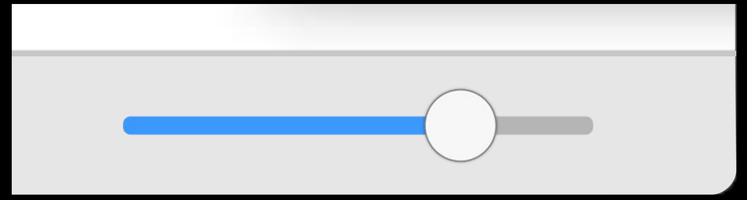
Tinted Sliders

Tinted Sliders



Tinted Sliders

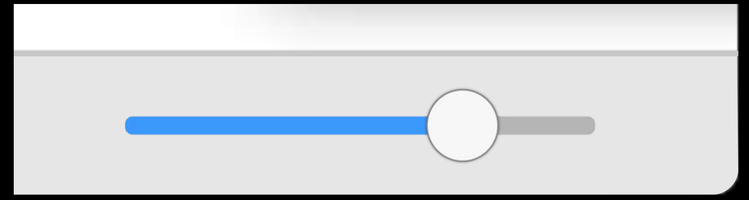
NEW



Tinted Sliders

NEW

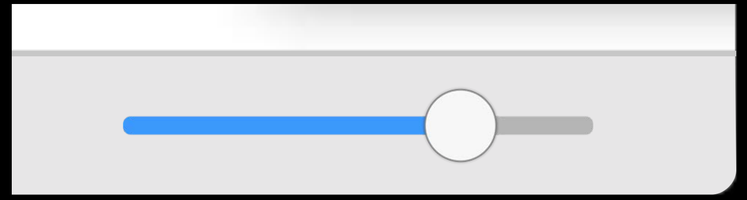
Non-directional sliders only



Tinted Sliders

Non-directional sliders only

```
slider.numberOfTickMarks = 0;
```



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Tue 9:41 AM

Mountain Biking with Jordan

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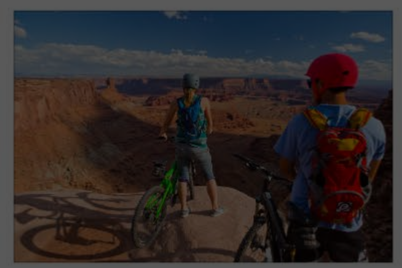

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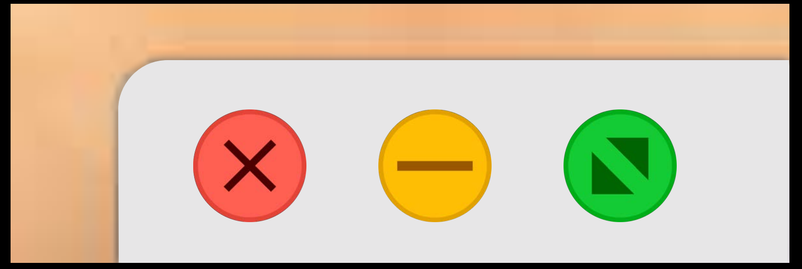
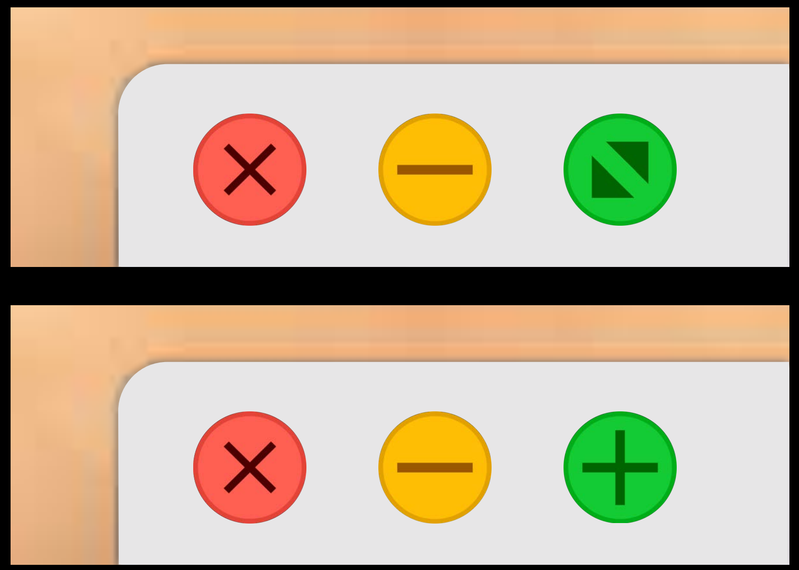
Fullscreen Button



Fullscreen Button

Press Option to zoom



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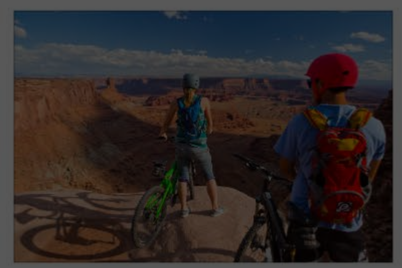

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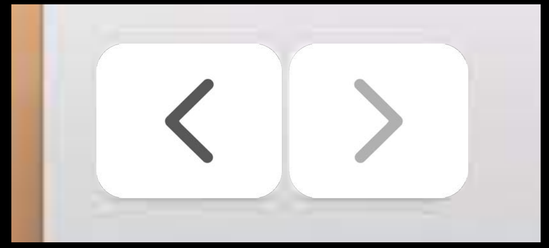
Separated Segmented Control

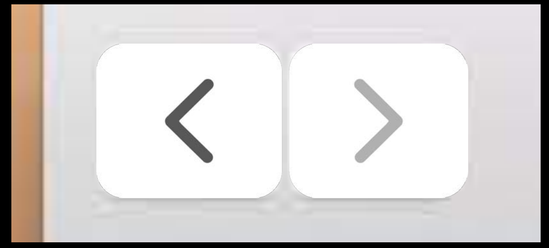
NEW



Separated Segmented Control

NEW

Navigation, incremental steps

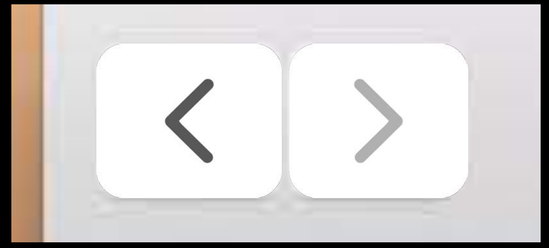


Separated Segmented Control

NEW

Navigation, incremental steps

```
segmentedControl.segmentStyle = NSSegmentStyleSeparated;
```



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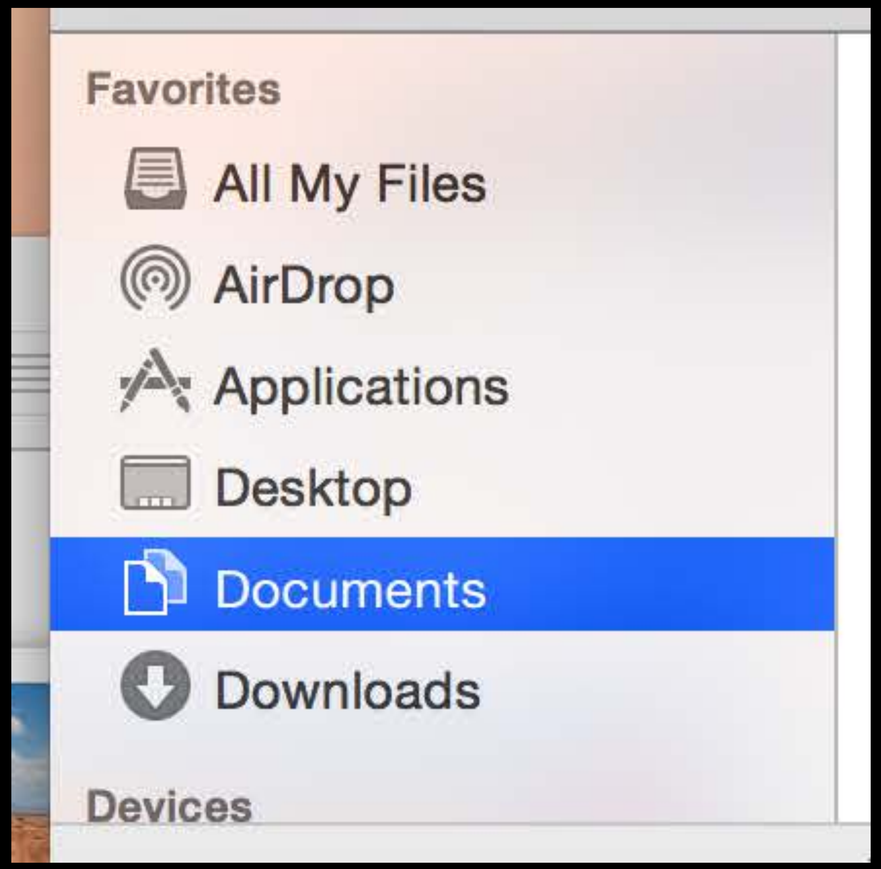
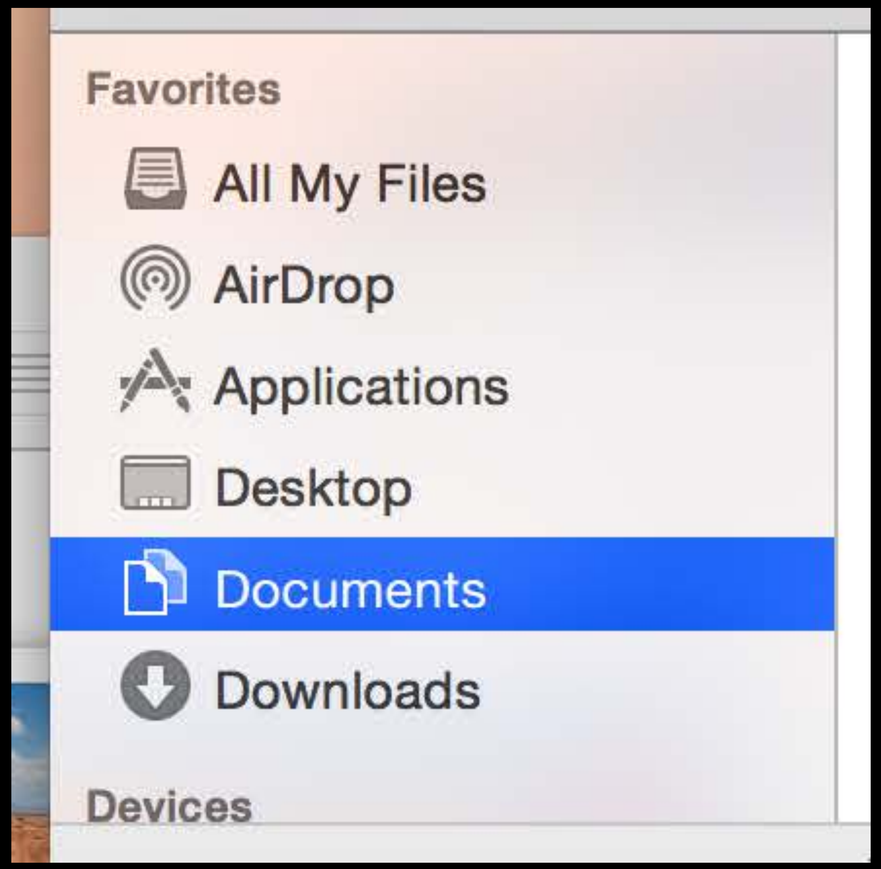
Translucent Sidebars



Translucent Sidebars

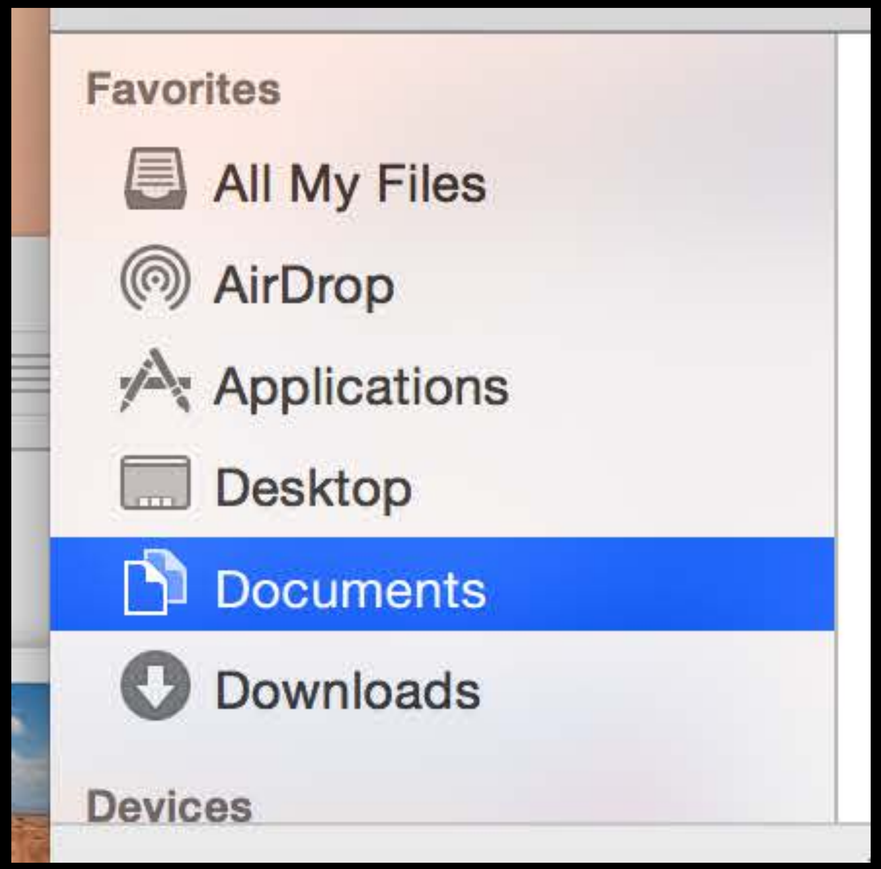
For free, if…



Translucent Sidebars

For free, if…

NSOutlineView or NSTableView

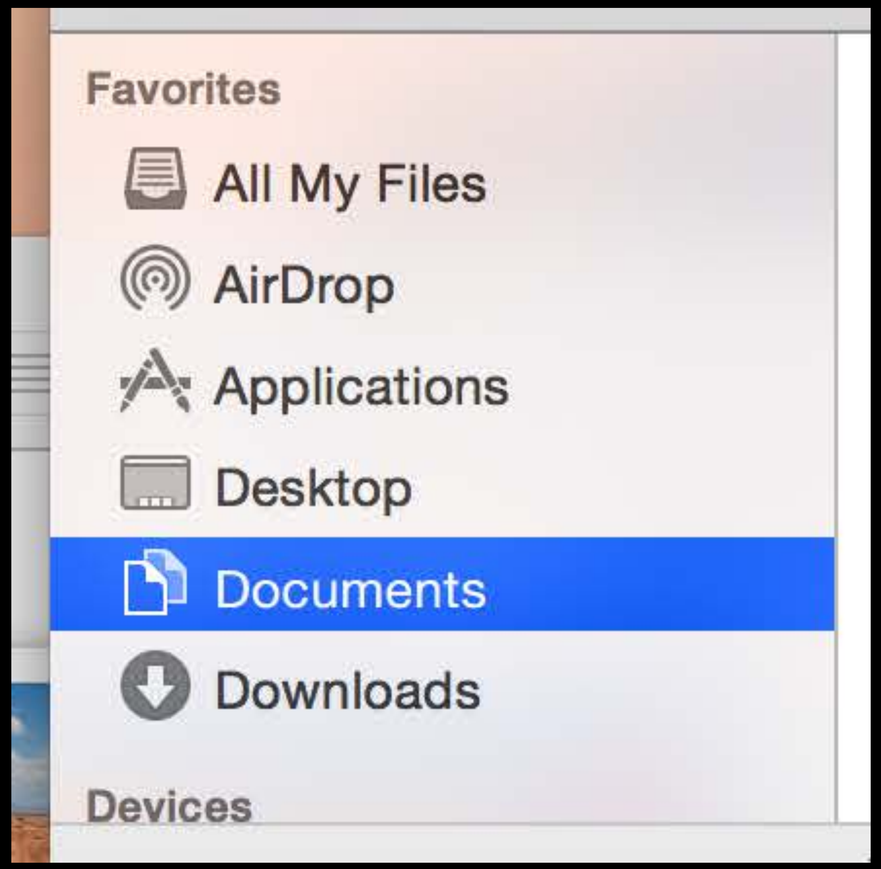


Translucent Sidebars

For free, if…

NSOutlineView or NSTableView

Highlight style set to Source List



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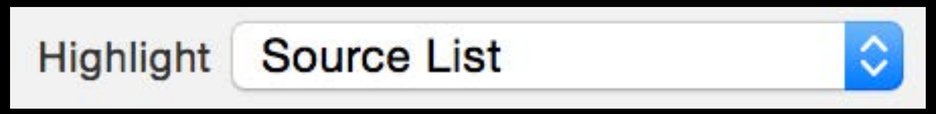
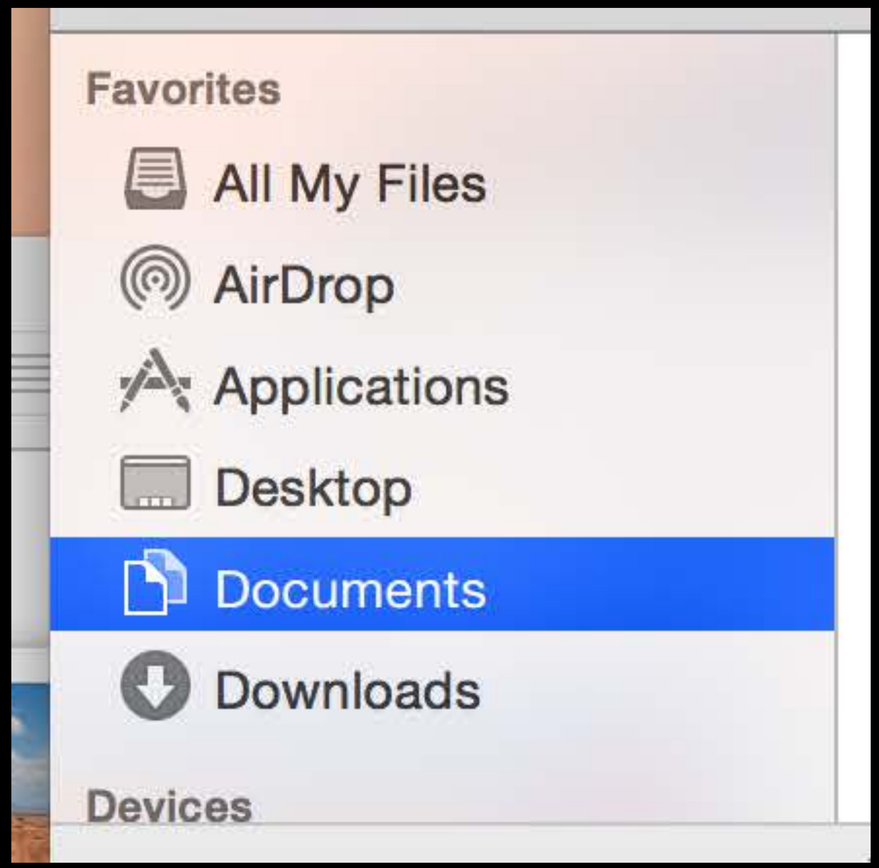
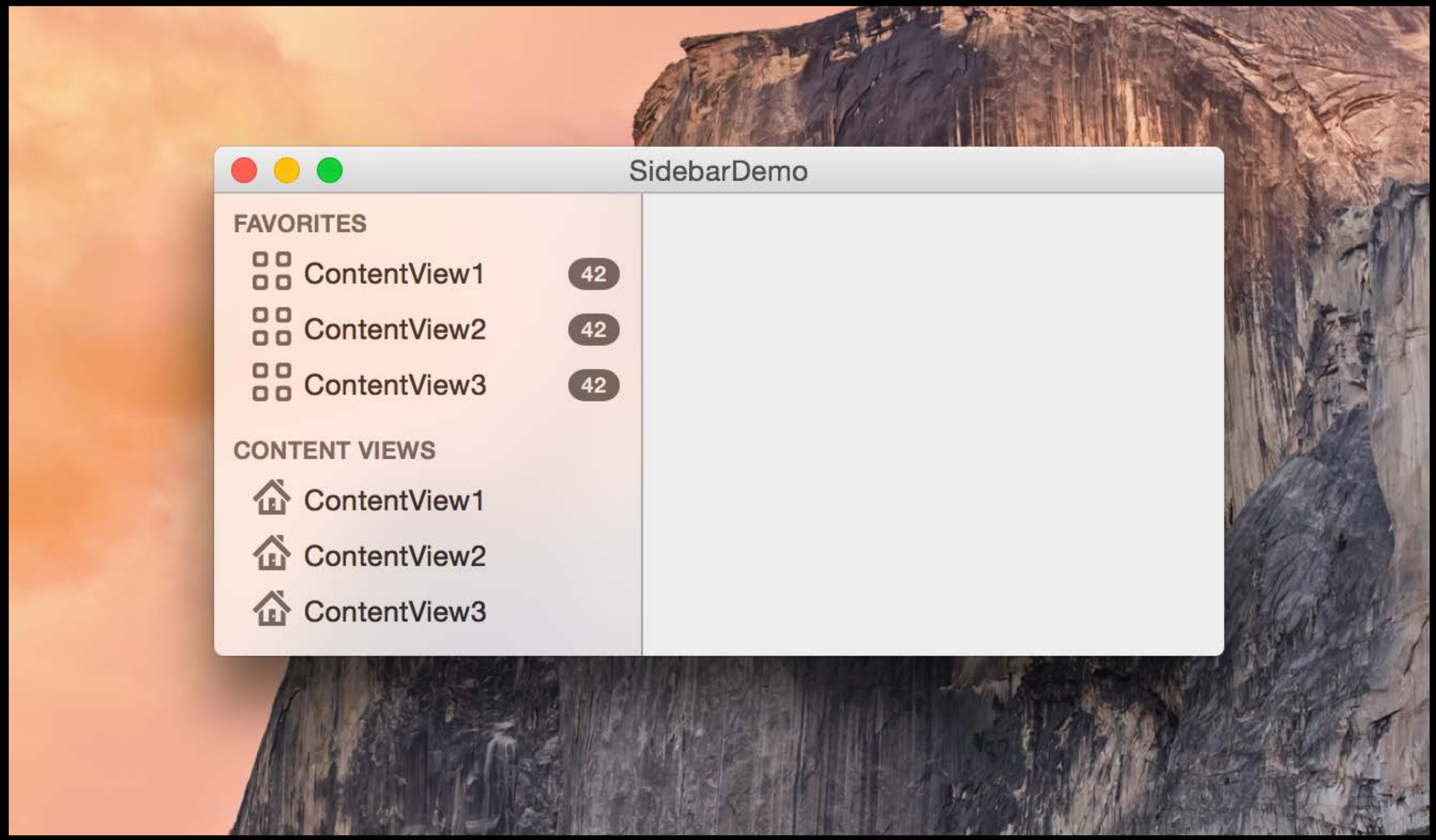




Example: SidebarDemo

From http://developer.apple.com



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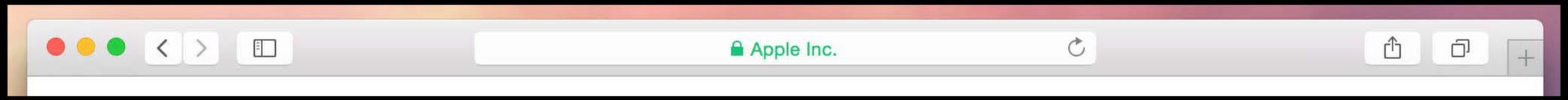
Hidden Window Titles

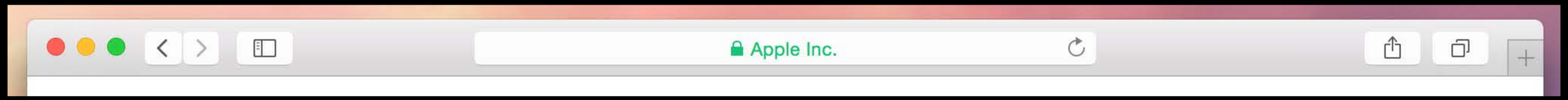
NEW



Hidden Window Titles

NEW

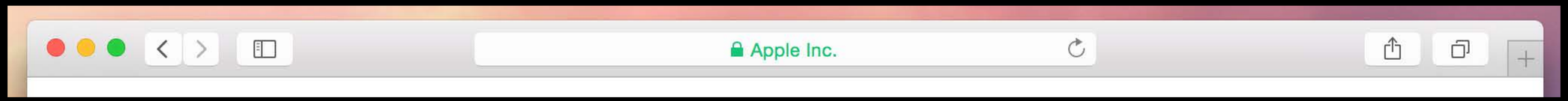
New NSWindow property: titleVisibility



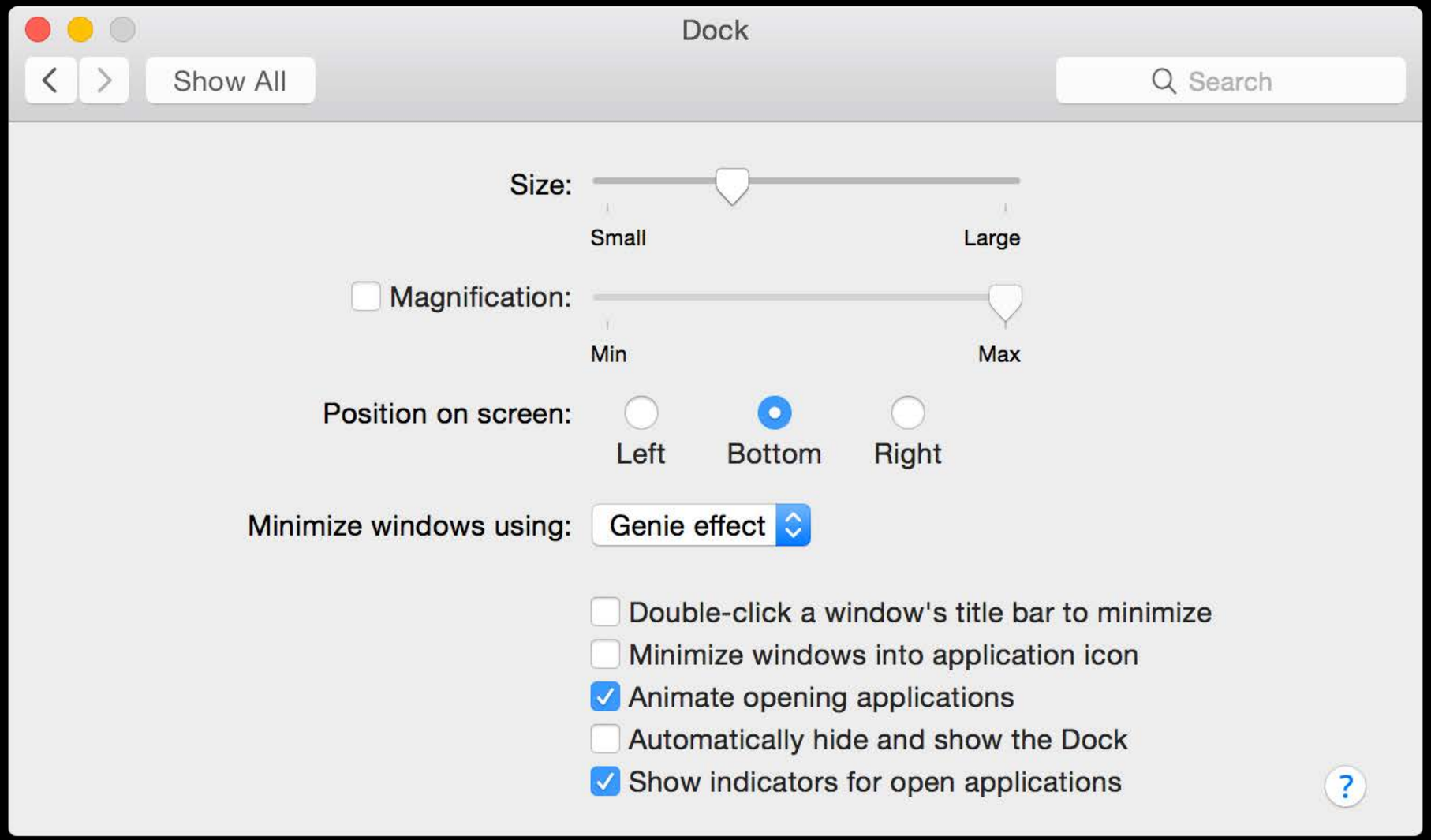
Hidden Window Titles

New NSWindow property: titleVisibility

```
window.titleVisibility = NSWindowTitleHidden;
```



Animated Controls



Animated Controls

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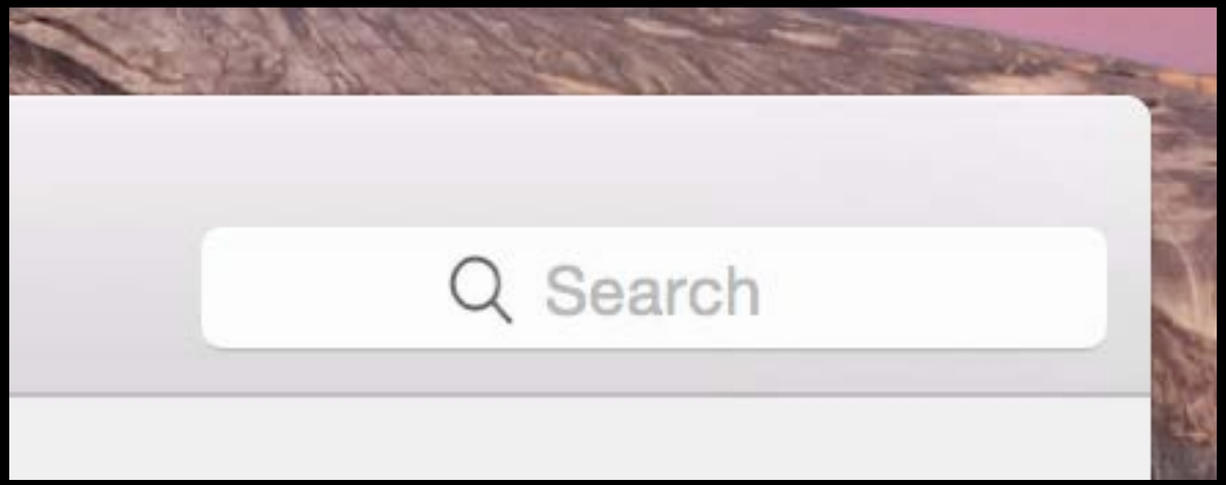
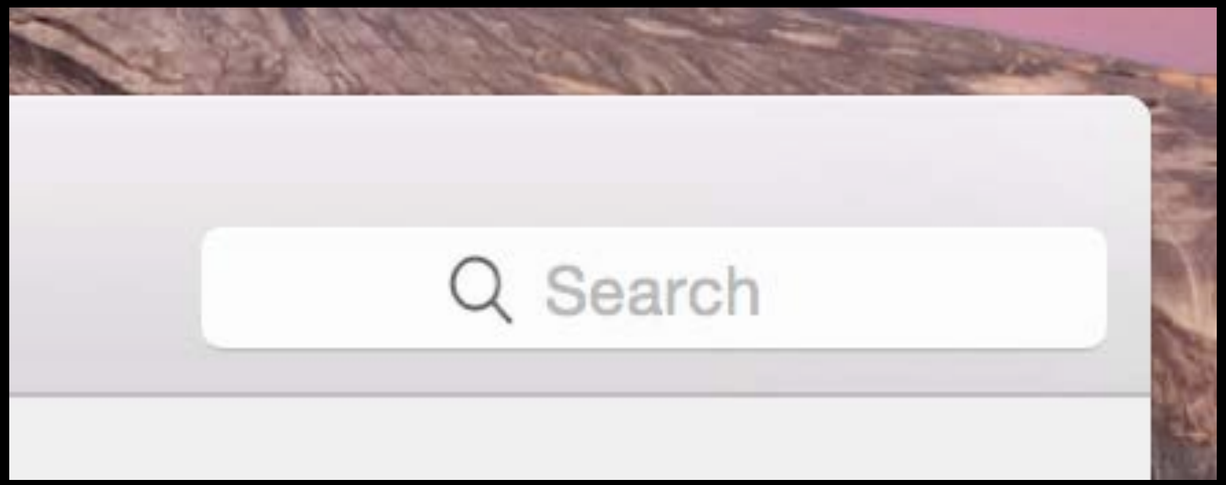


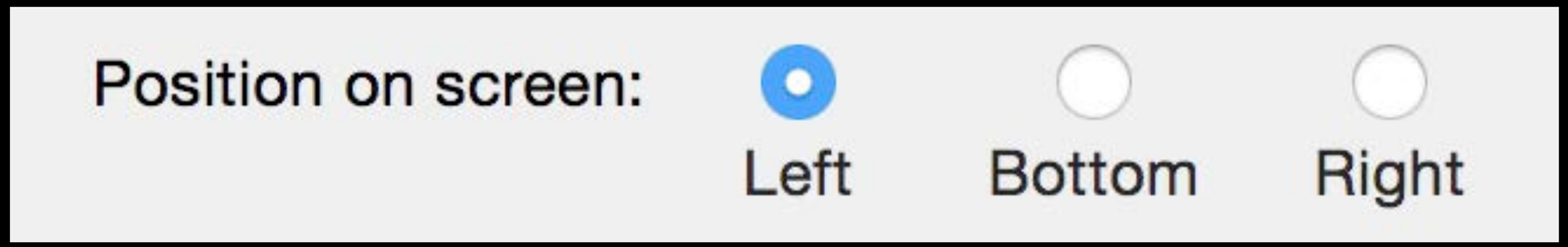
Animated Controls

Search field



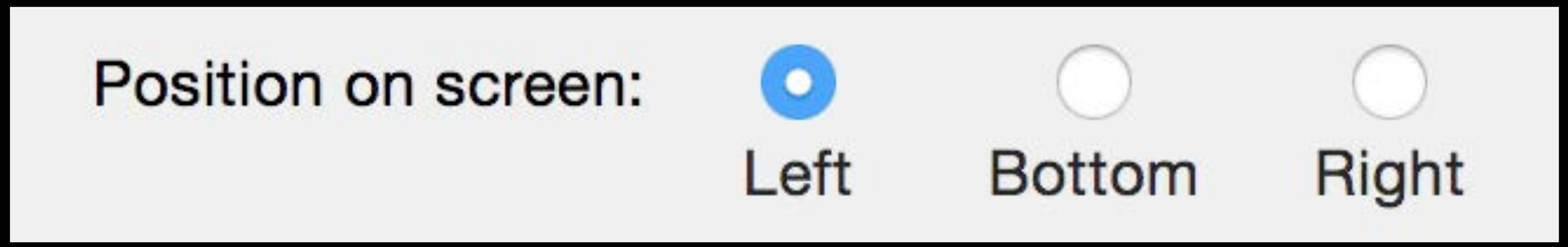
Animated Controls

Radio buttons



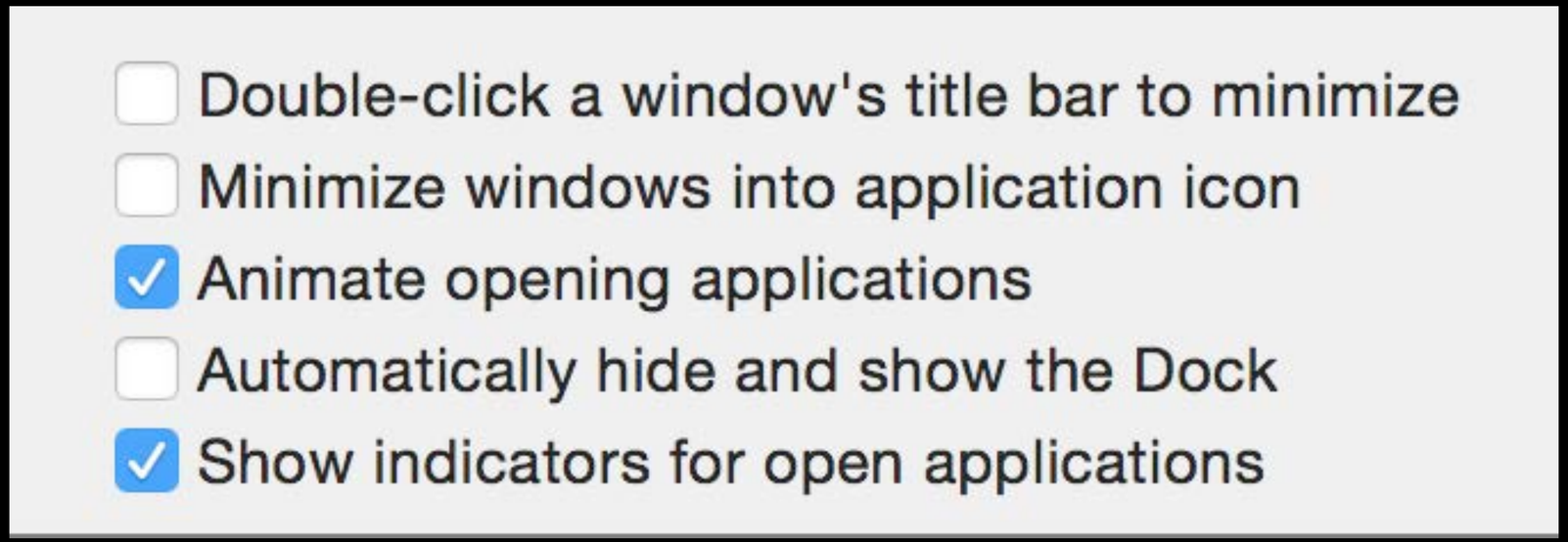
Animated Controls

Radio buttons



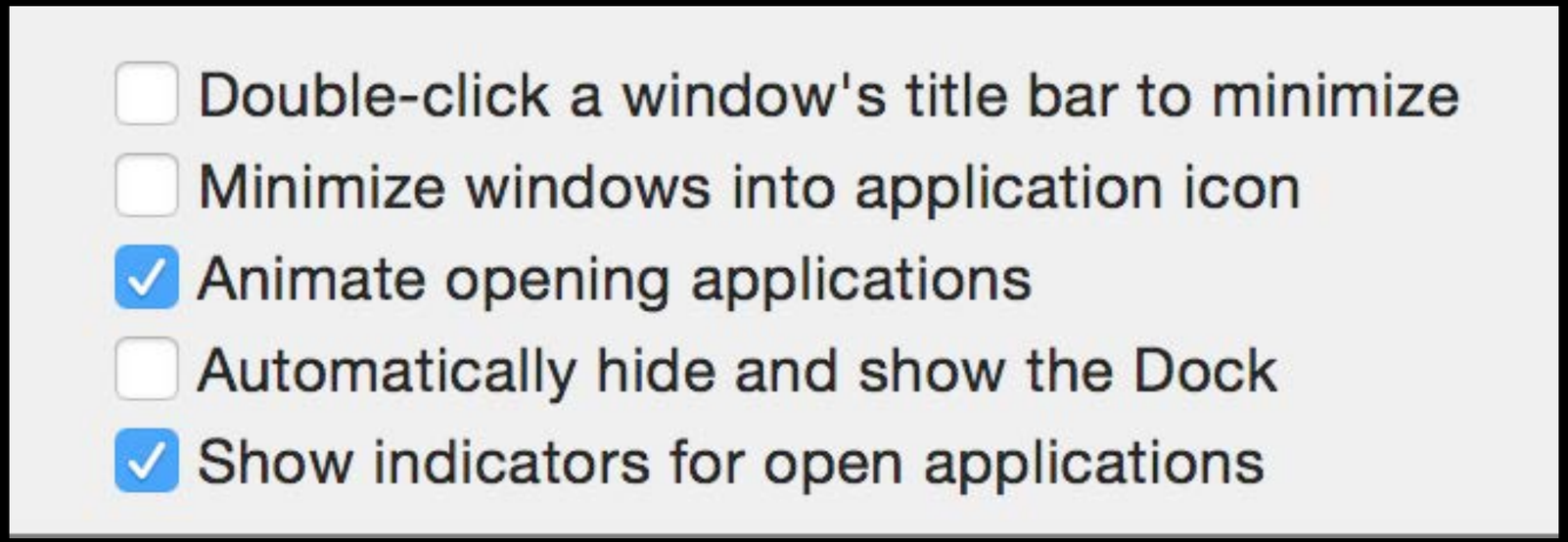
Animated Controls

Checkboxes



Animated Controls

Checkboxes



Animated Controls

Popup buttons

Animated Controls

Popup buttons

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Tuesday,
June 3rd

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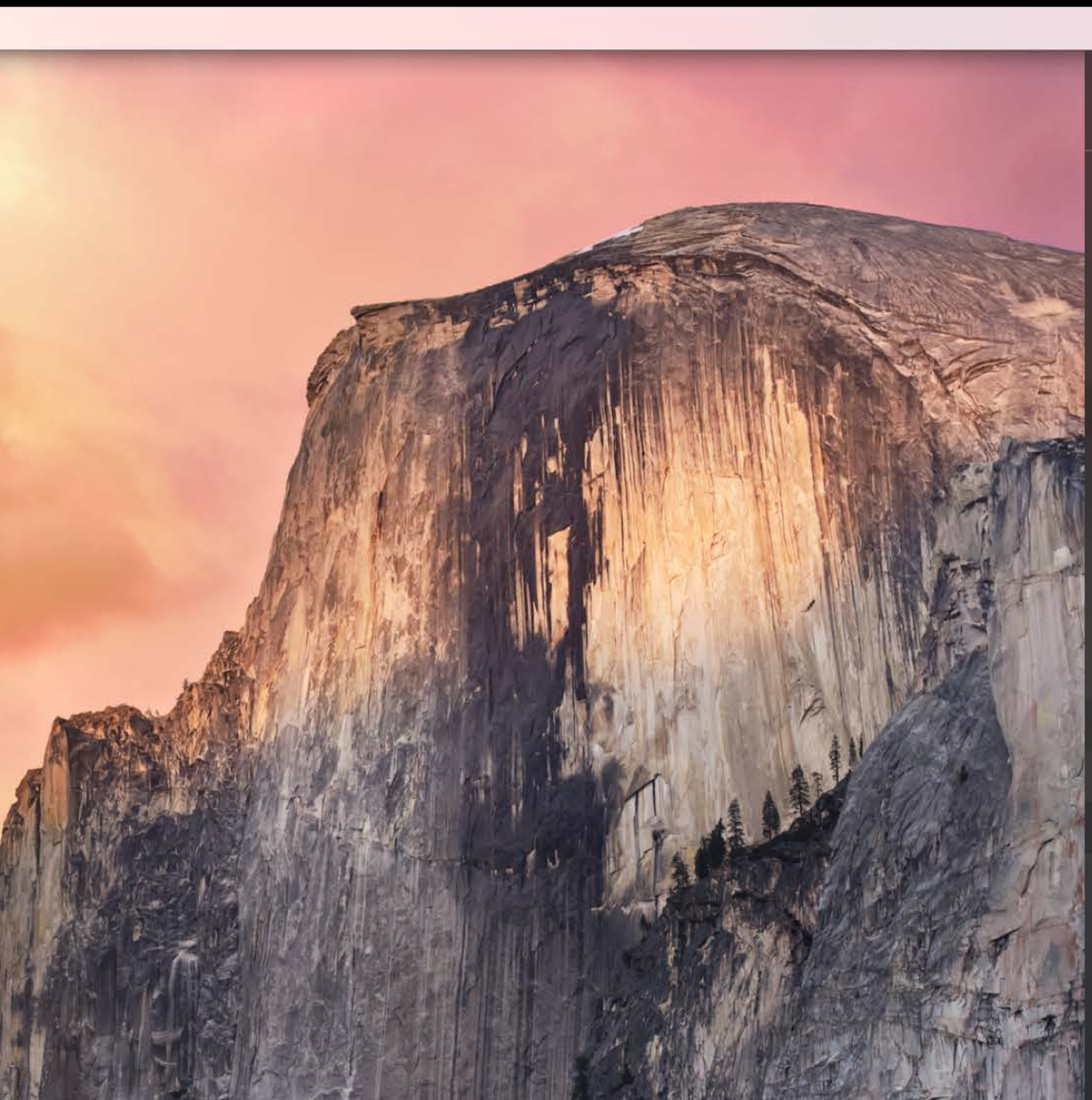

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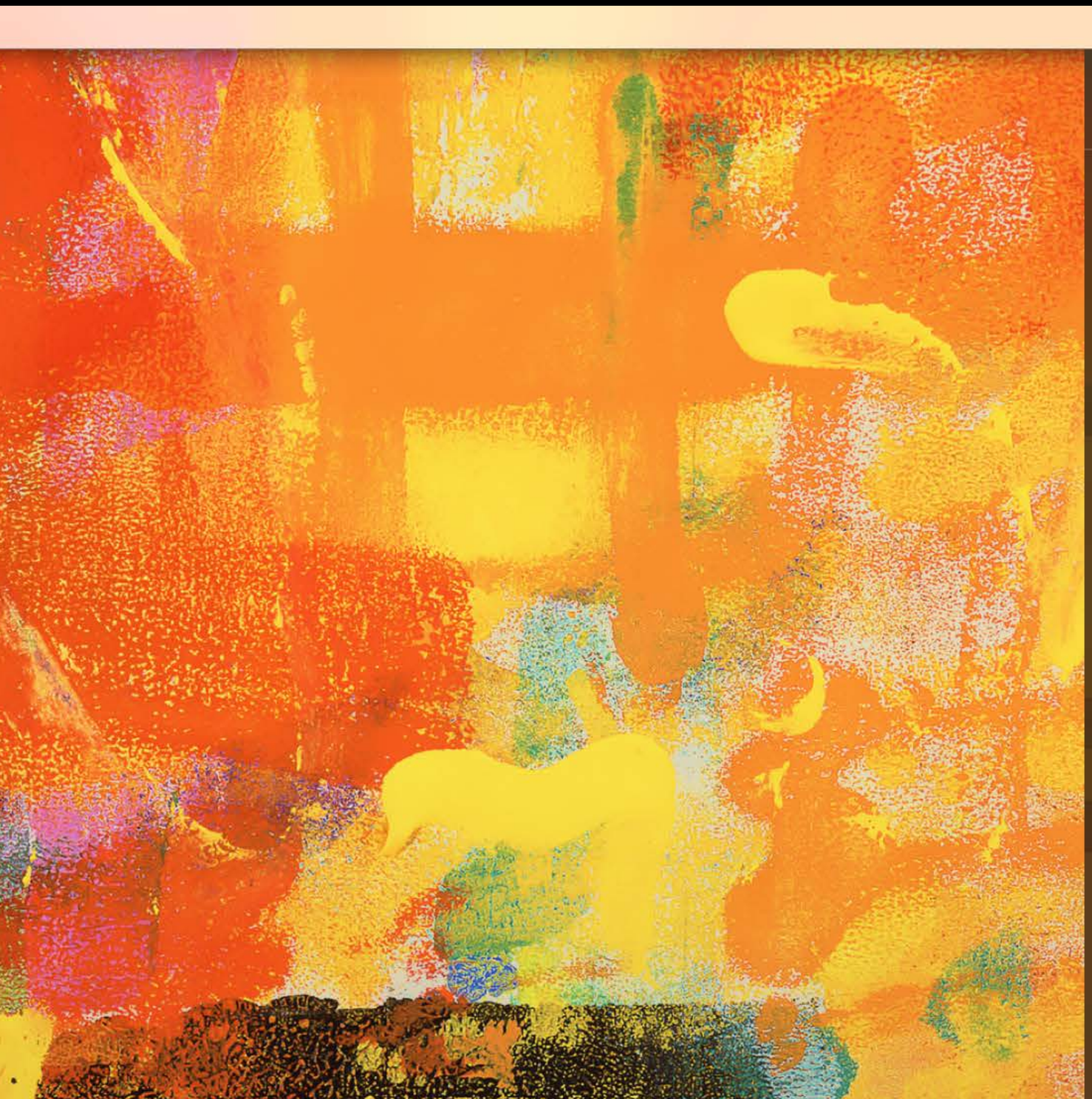

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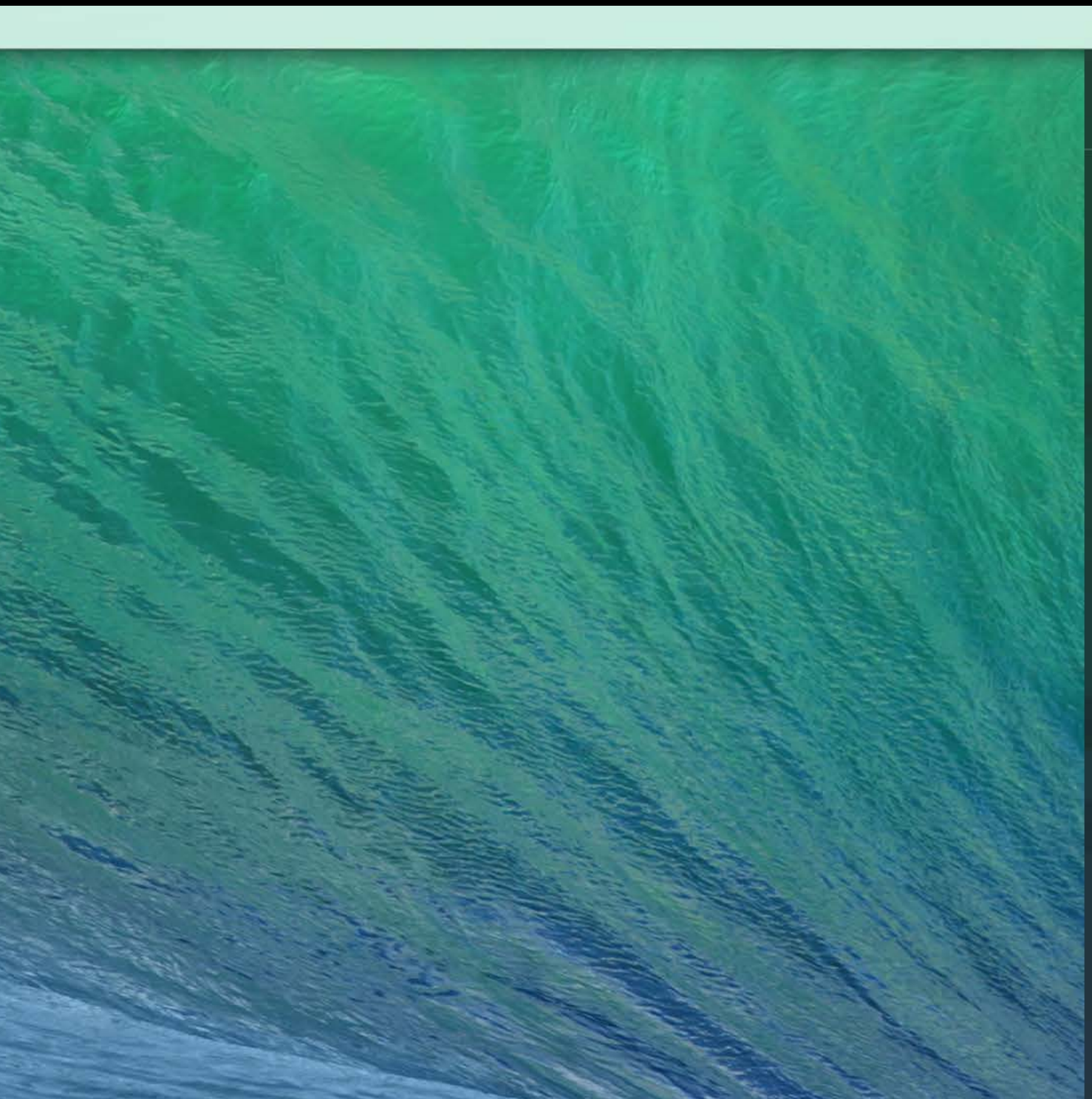

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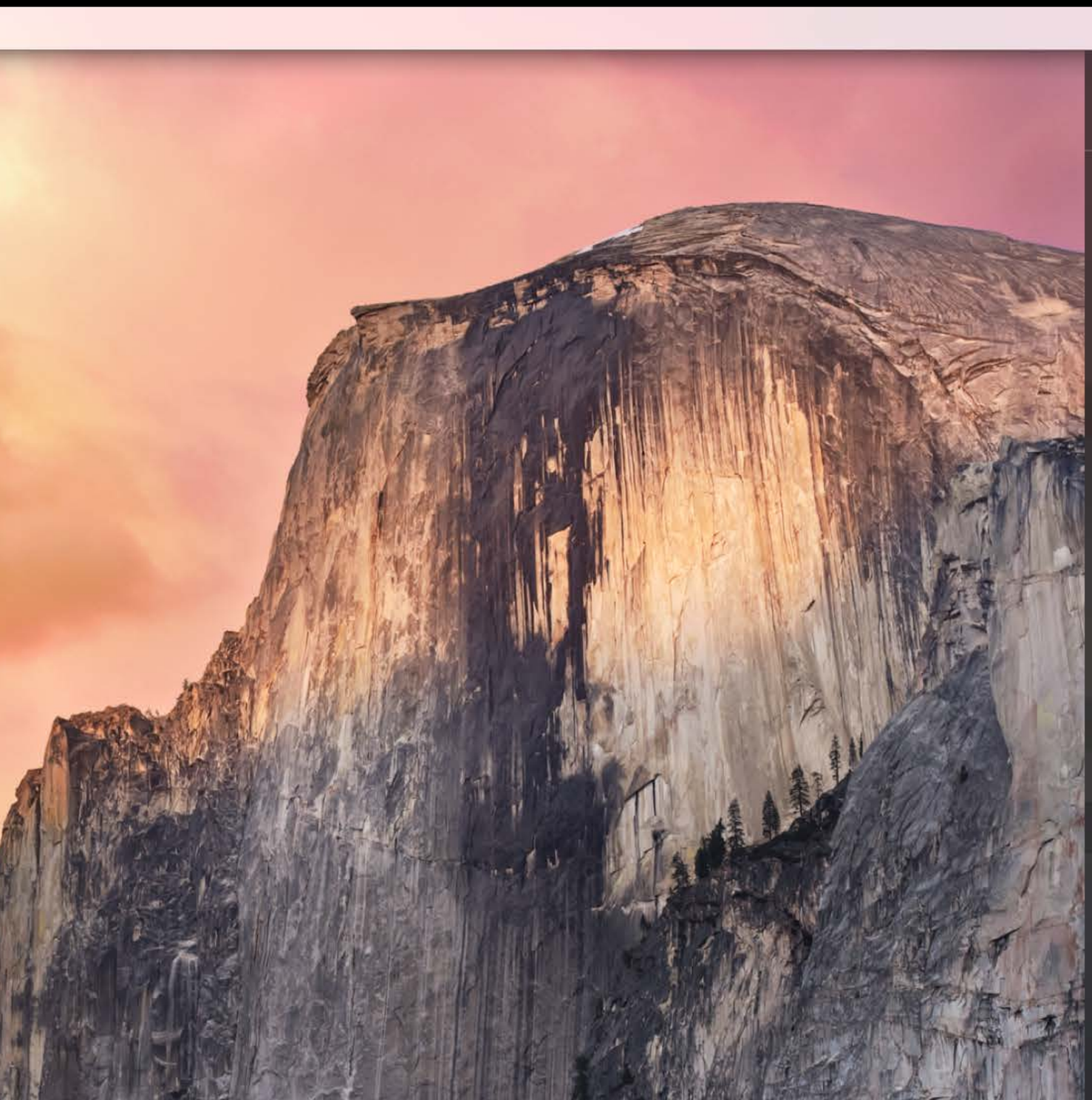
Stocks

DOW J	16,675.50	+ 0.42%
NASDAQ	4,237.07	+ 1.22%
S&P 500	1,911.91	+ 0.60%



Tue 9:41 AM

Today | Notifications

Tuesday,
June 3rd

Calendar

No Events

Reminders

Stocks

DOW J	16,675.50	+ 0.42%
NASDAQ	4,237.07	+ 1.22%
S&P 500	1,911.91	+ 0.60%

Visual Effect View

NSVisualEffectView

NEW

Visual Effect View

NSVisualEffectView

NEW

Vibrant Dark appearance

Visual Effect View

NSVisualEffectView

NEW

Vibrant Dark appearance

```
NSVisualEffectView *effectView = [NSVisualEffectView initWithFrame:frame];
```

Visual Effect View

NSVisualEffectView

NEW

Vibrant Dark appearance

```
NSVisualEffectView *effectView = [NSVisualEffectView initWithFrame:frame];
NSAppearance *darkAppearance =
       [NSAppearance appearanceNamed:NSAppearanceNameVibrantDark];
```

Visual Effect View

NSVisualEffectView

NEW

Vibrant Dark appearance

```
NSVisualEffectView *effectView = [NSVisualEffectView initWithFrame:frame];
NSAppearance *darkAppearance =
       [NSAppearance appearanceNamed:NSAppearanceNameVibrantDark];
effectView.appearance = darkAppearance;
```

Apple Inc.

WWDC14

Apple Worldwide Developers Conference. June 2–6, San Francisco.

Over the past six years, a massive cultural shift has occurred.
It's changed how we interact with one another. Learn new things.
Entertain ourselves. Do our work. And live our daily lives.
All because of developers and the apps they create.

Safari File Edit View History Bookmarks Window Help

Tue 9:41 AM

Apple Inc.

Open Image in New Tab
Open Image in New Window

Save Image to “Downloads”
Save Image As…
Use Image as Desktop Picture

Copy Image Address
Copy Image

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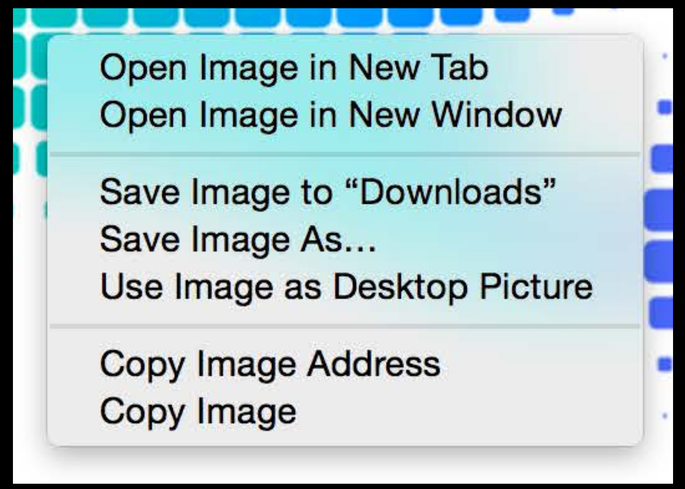
Visual Effect View

NSVisualEffectView

NEW

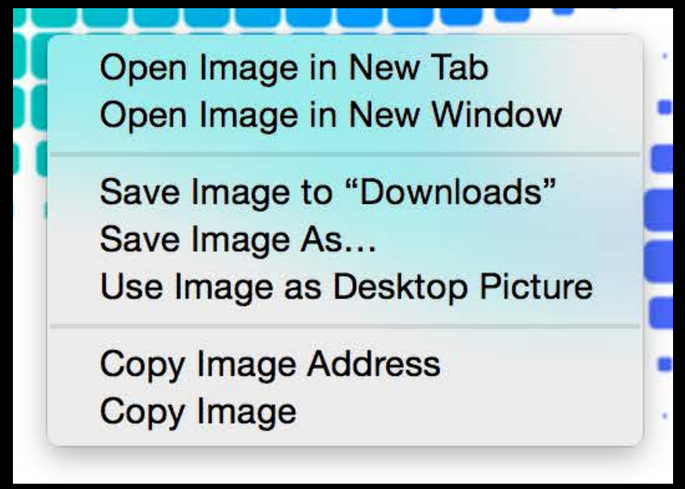


Visual Effect View

NSVisualEffectView

NEW

Vibrant Light appearance



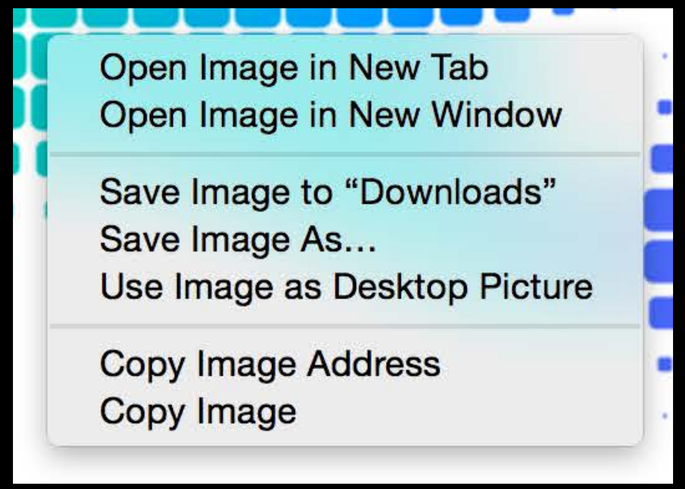
Visual Effect View

NSVisualEffectView

NEW

Vibrant Light appearance

```
NSVisualEffectView *effectView = [NSVisualEffectView initWithFrame:frame];
```



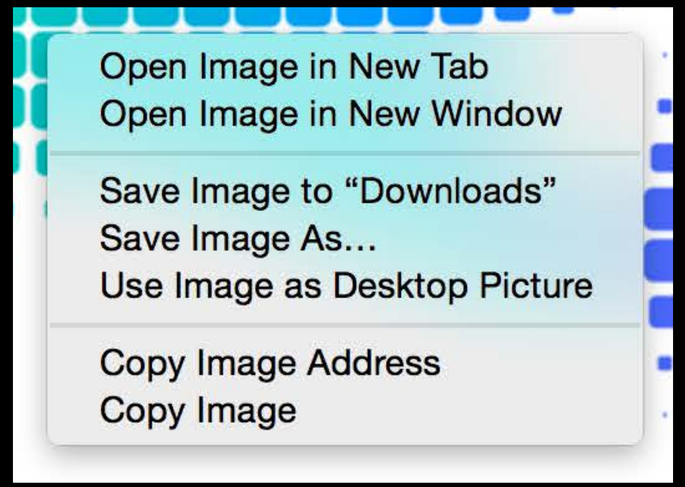
Visual Effect View

NSVisualEffectView

NEW

Vibrant Light appearance

```
NSVisualEffectView *effectView = [NSVisualEffectView initWithFrame:frame];
NSAppearance *lightAppearance =
        [NSAppearance appearanceNamed:NSAppearanceNameVibrantLight];
```



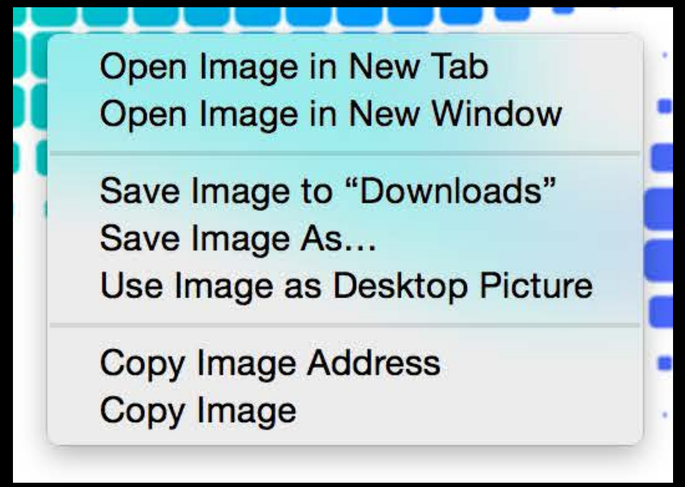
Visual Effect View

NSVisualEffectView

NEW

Vibrant Light appearance

```
NSVisualEffectView *effectView = [NSVisualEffectView initWithFrame:frame];
NSAppearance *lightAppearance =
        [NSAppearance appearanceNamed:NSAppearanceNameVibrantLight];
effectView.appearance = lightAppearance;
```



Related Session

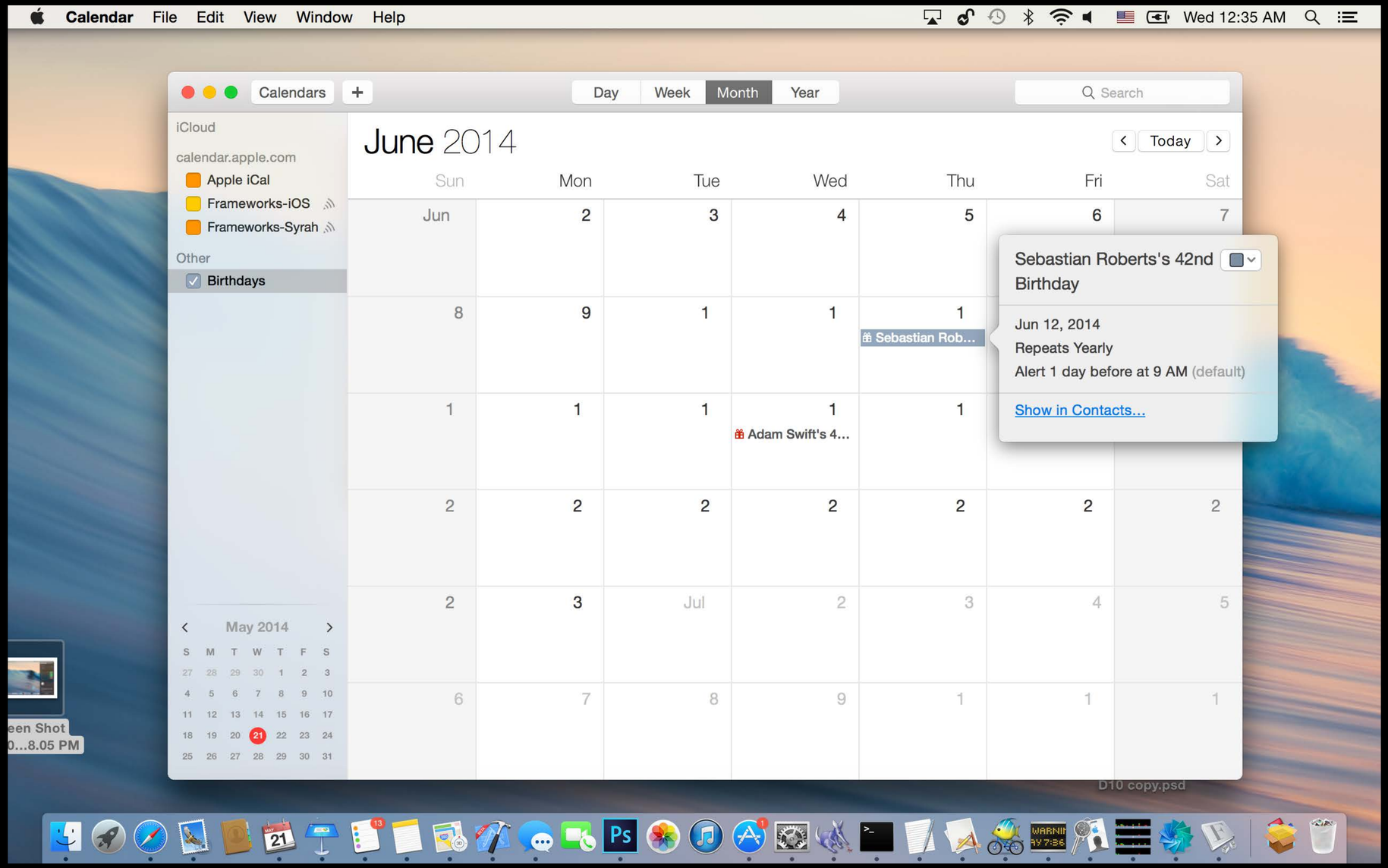
• Adopting Advanced Features of the New UI of OS X Yosemite	Marina	Wednesday 2:00PM

Vibrancy

Patrick Heynen
Cocoa Engineering Manager

Vibrancy

A visual building block for OSX



Vibrancy

A visual building block for OSX

Vibrancy

What is it?

Advanced Blending on Dynamic Backgrounds

$$2 + 2 = 4$$

$$2 + 2 = 5$$

The whole is greater
than the sum of the parts

Combining Foreground and Background

Combining Foreground and Background

Combining Foreground and Background

Combining Foreground and Background

Combining Foreground and Background

Combining Foreground and Background

Combining Foreground and Background

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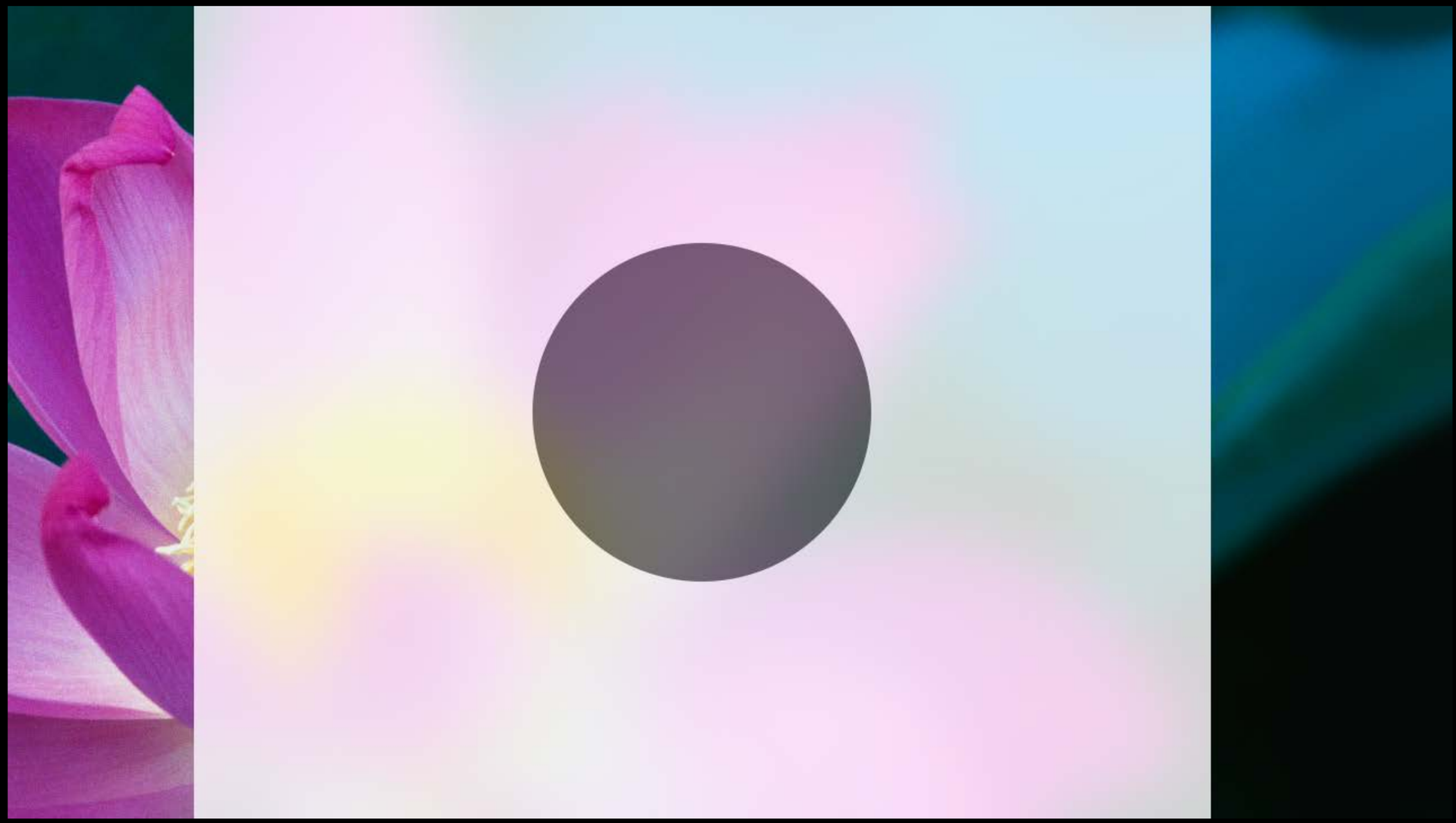
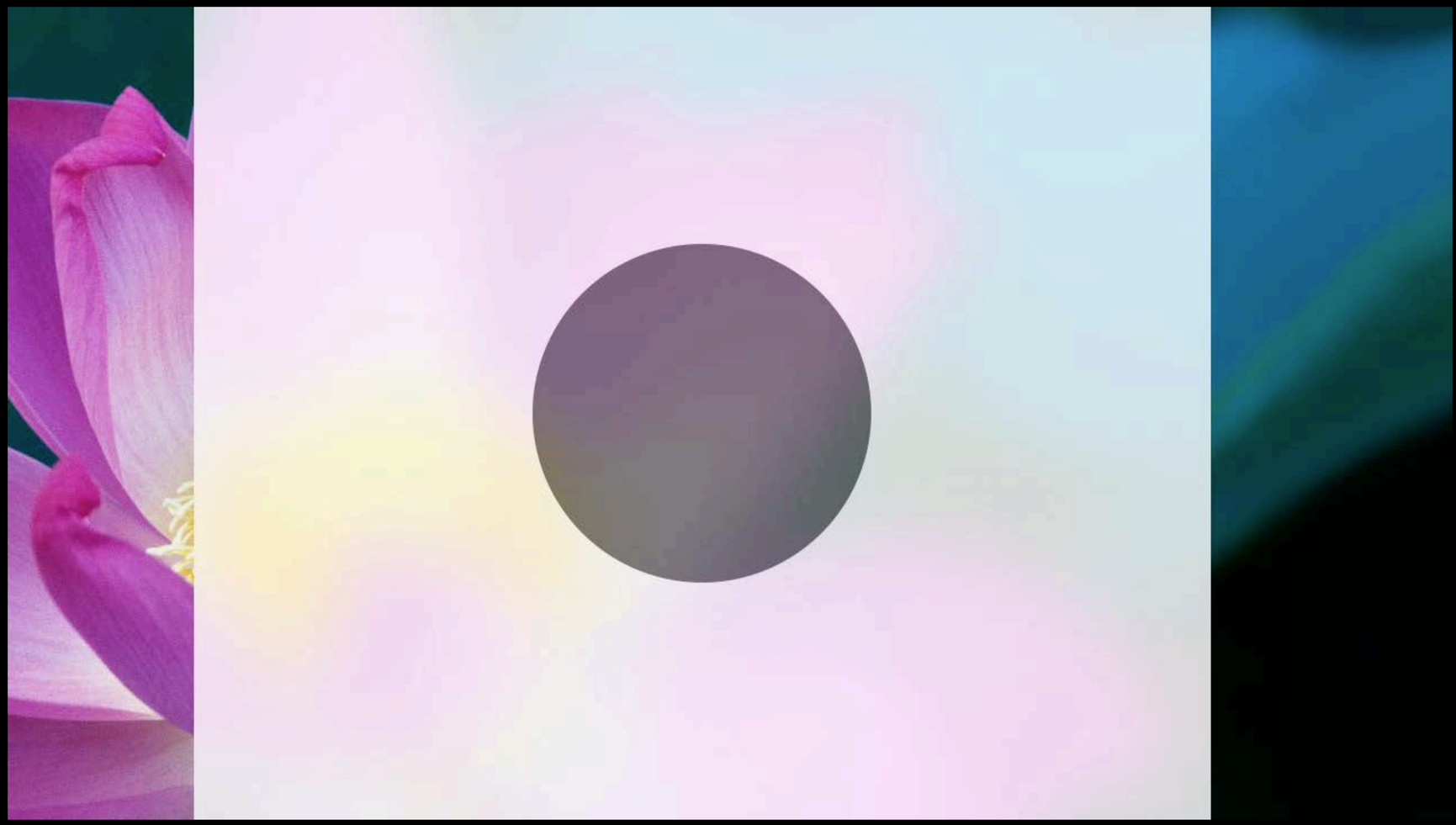
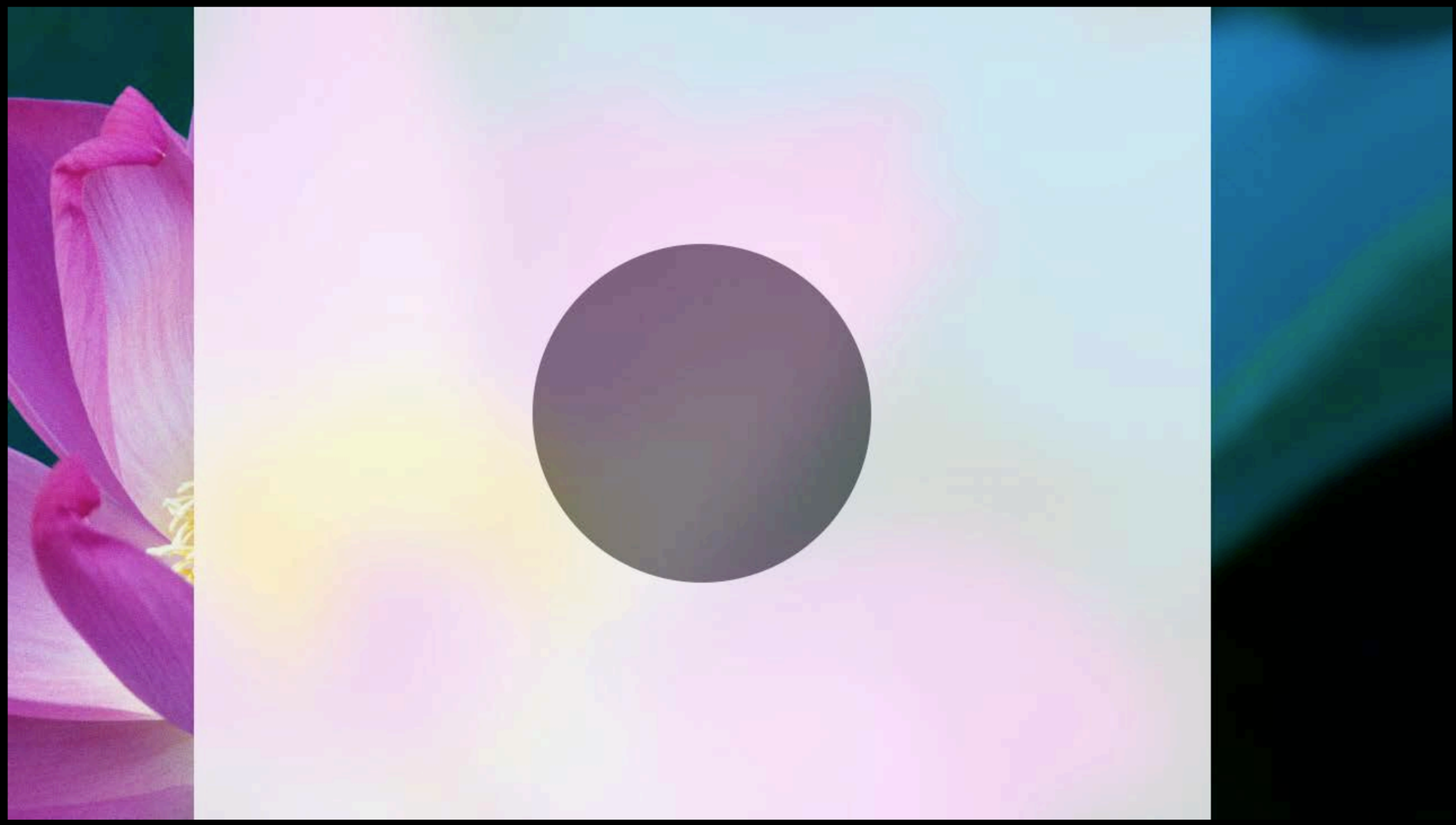


Combining Foreground and Background



Combining Foreground and Background



The whole is greater
than the sum of the parts

Vibrant Materials

Vibrant Materials

Menus/popovers

Vibrant Materials

Menus/popovers

Light (sidebar)

Vibrant Materials

Menus/popovers

Light (sidebar)

Titlebars

Vibrant Materials

Menus/popovers

Light (sidebar)

Titlebars

Dark

New Vibrant System Behaviors

New Vibrant System Behaviors

Source lists

New Vibrant System Behaviors

Source lists

Translucent titlebar

New Vibrant System Behaviors

Source lists

Translucent titlebar

Menus and popovers

New Vibrant System Behaviors

Source lists

Translucent titlebar

Menus and popovers

Menu bar and status items

Using Vibrancy in Your Apps

NSVisualEffectView + NSAppearance

NSVisualEffectView

NSVisualEffectView

Background view containing blurred version of window or desktop contents

NSVisualEffectView

Background view containing blurred version of window or desktop contents

Offered in light and dark material flavors

NSVisualEffectView

Background view containing blurred version of window or desktop contents

Offered in light and dark material flavors

Automatically updates as content underneath changes

NSAppearance

NSAppearance

NSAppearanceNameVibrantLight and NSAppearanceNameVibrantDark

NSAppearance

NSAppearanceNameVibrantLight and NSAppearanceNameVibrantDark

Provide colors, controls, and template image treatments suitable for vibrant rendering

NSAppearance

NSAppearanceNameVibrantLight and NSAppearanceNameVibrantDark

Provide colors, controls, and template image treatments suitable for vibrant rendering

Foreground content source for NSVisualEffectView materials

NSAppearance

NSAppearanceNameVibrantLight and NSAppearanceNameVibrantDark

Provide colors, controls, and template image treatments suitable for vibrant rendering

Foreground content source for NSVisualEffectView materials

AppKit controls automatically pick up vibrant rendering where appropriate

Demo

Using vibrancy in your apps

Vibrancy

More in-depth details on using NSVisualEffectView

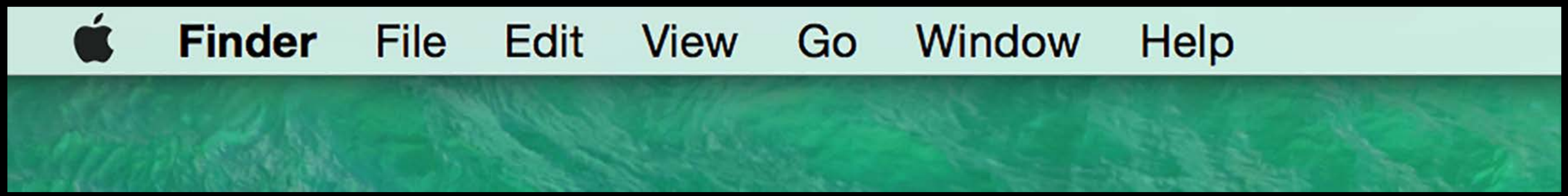
• Adopting Advanced Features of the New UI in OS X Yosemite	Marina	Wednesday 2:00PM

Fonts, Colors, and Artwork

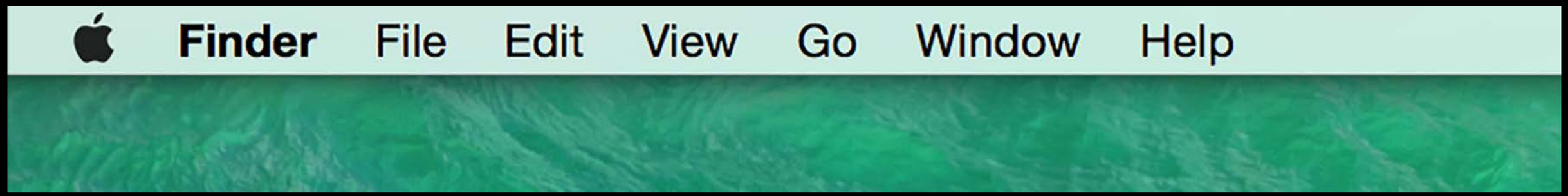
What’s New in Fonts?

System Font

Finder File Edit View Go Window Help


Finder
File
Edit
View
Go
Window
Help

Finder File Edit View Go Window Help


Finder File Edit View Go Window Help

New System Font

New System Font

Helvetica Neue, optimized for OSX

New System Font

Helvetica Neue, optimized for OSX

Font metrics tuned to balance layout compatibility with aesthetics

Font Metrics

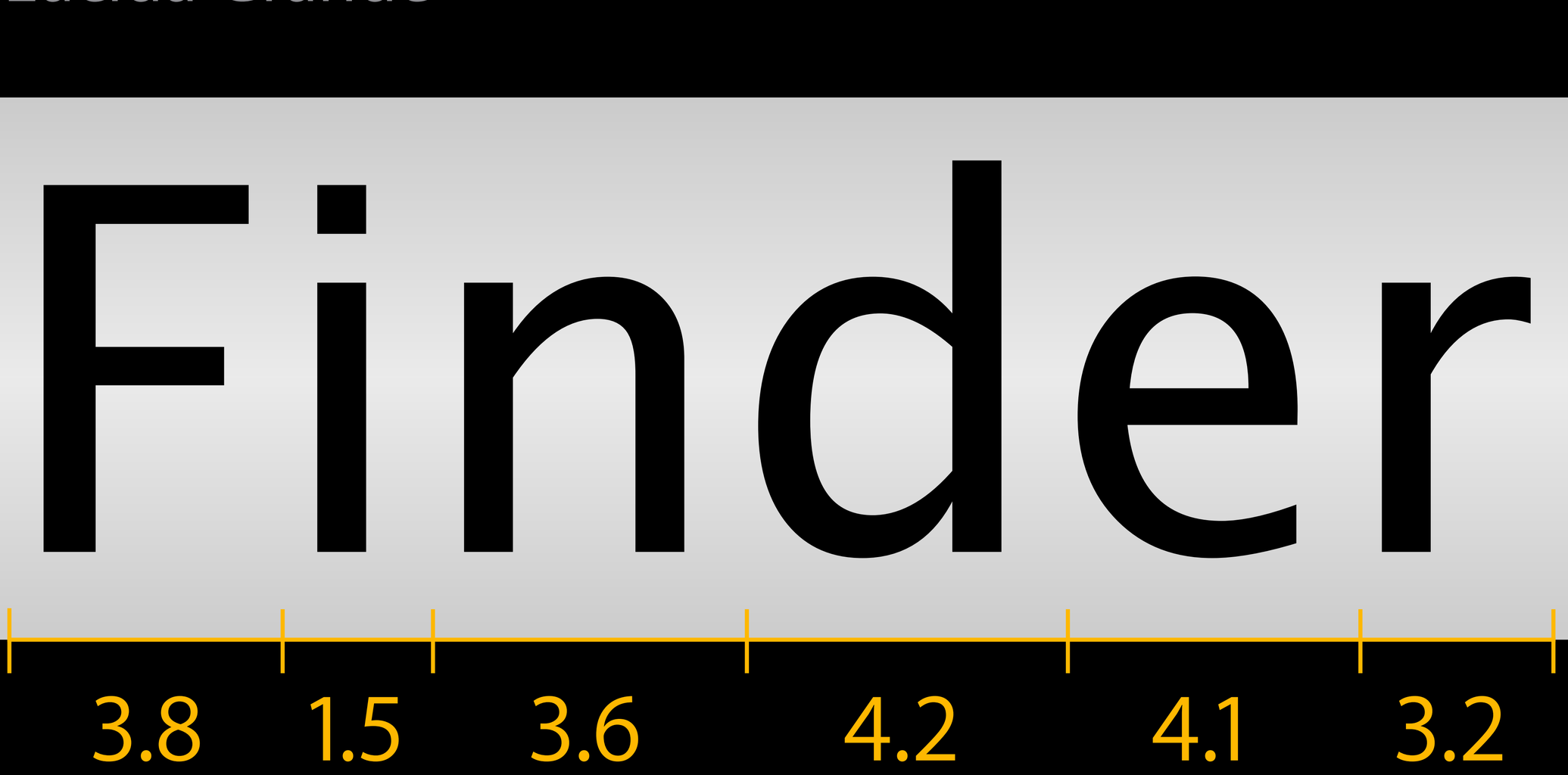
Lucida Grande

Finder

Font Metrics

Lucida Grande

Finder



Font Metrics

Helvetica Neue

Finder

4.2 1.1 2.7 3.3 2.8 2.1

Finder

Finder

Layout Compatibility

Layout Compatibility

Compression applied if in danger of clip

Layout Compatibility

Compression applied if in danger of clip

Active for apps built against 10.9 or earlier only

Layout Compatibility

Compression applied if in danger of clip

Active for apps built against 10.9 or earlier only

No silver bullet!

Layout compression
can affect legibility

Layout compression
can affect legibility

New System Font

New System Font

Use System Font Selectors

New System Font

Use System Font Selectors

```
+[NSFont systemFontOfSize:]
+[NSFont boldSystemFontOfSize:]
+[NSFont labelFontOfSize:]
```

Do not explicitly set your font to “Helvetica Neue”

Colors

System Colors

System Colors

Use colors as a ‘system’ not a set of numbers!

System Colors

Use colors as a ‘system’ not a set of numbers!

Many standard system colors have been adapted to the new UI

System Colors

Use colors as a ‘system’ not a set of numbers!

Many standard system colors have been adapted to the new UI

Information hierarchy

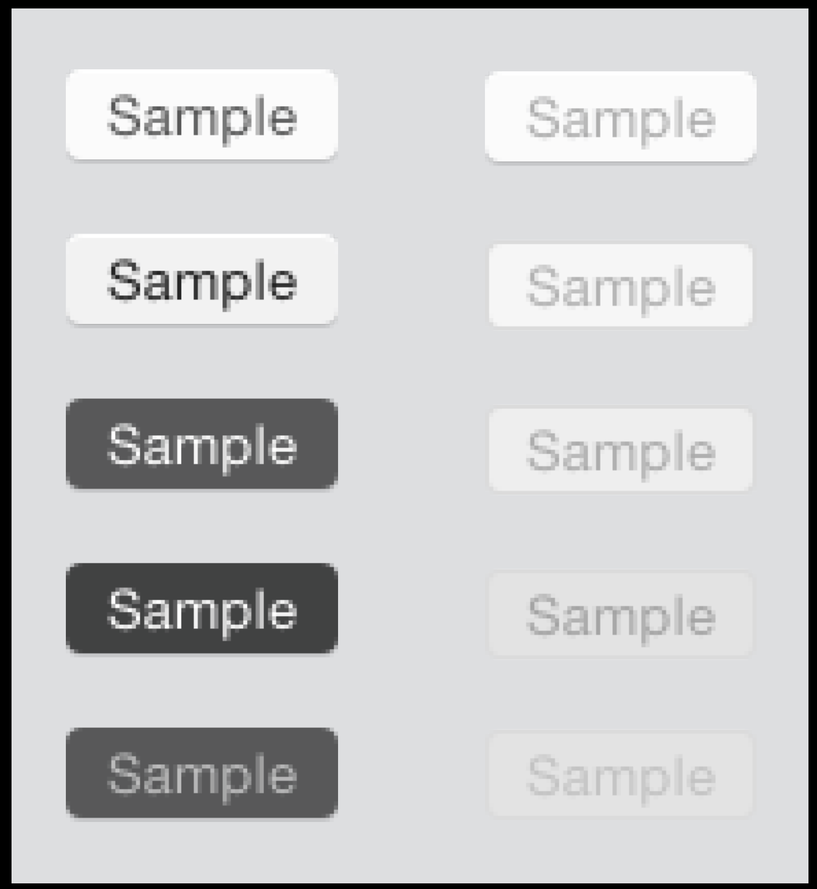
```
+[NSColor labelColor]
+[NSColor secondaryLabelColor]
```

System Colors

Control text adapts to control state

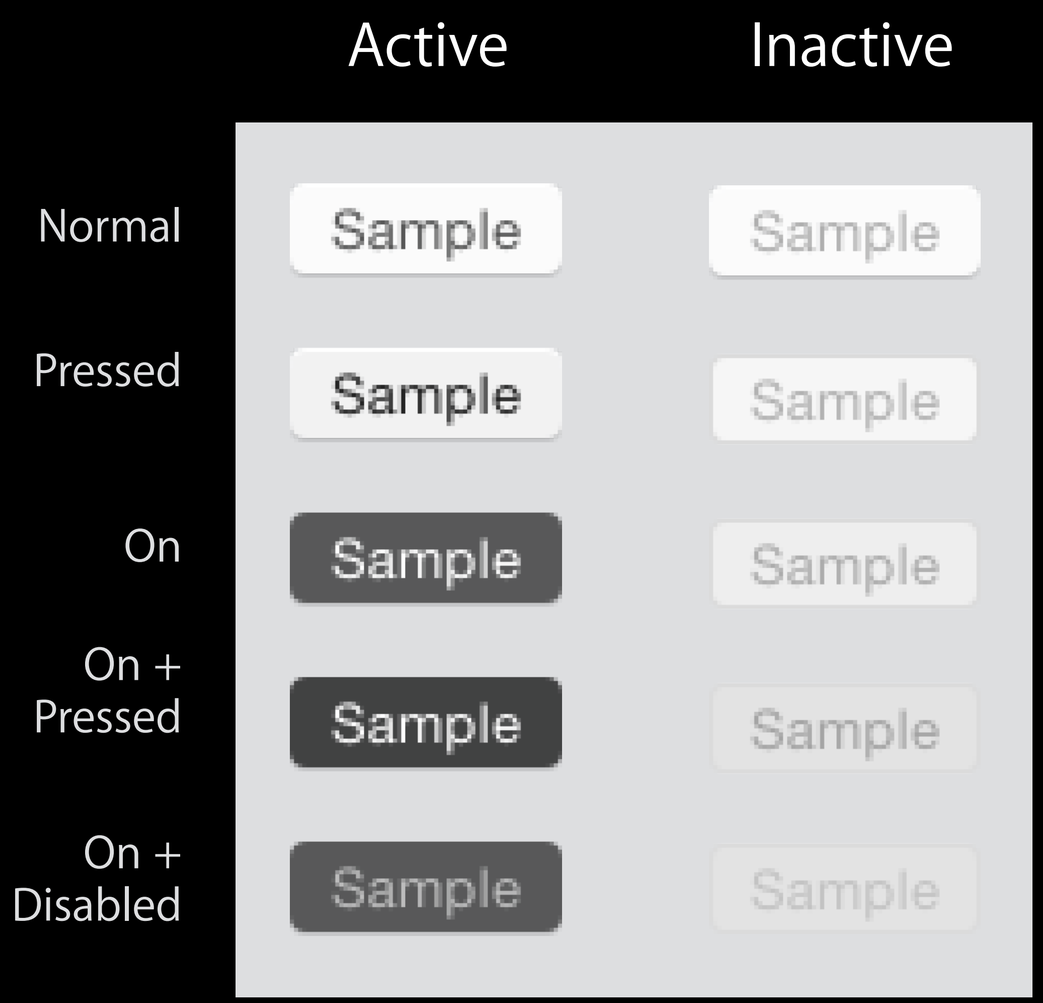
System Colors

Control text adapts to control state



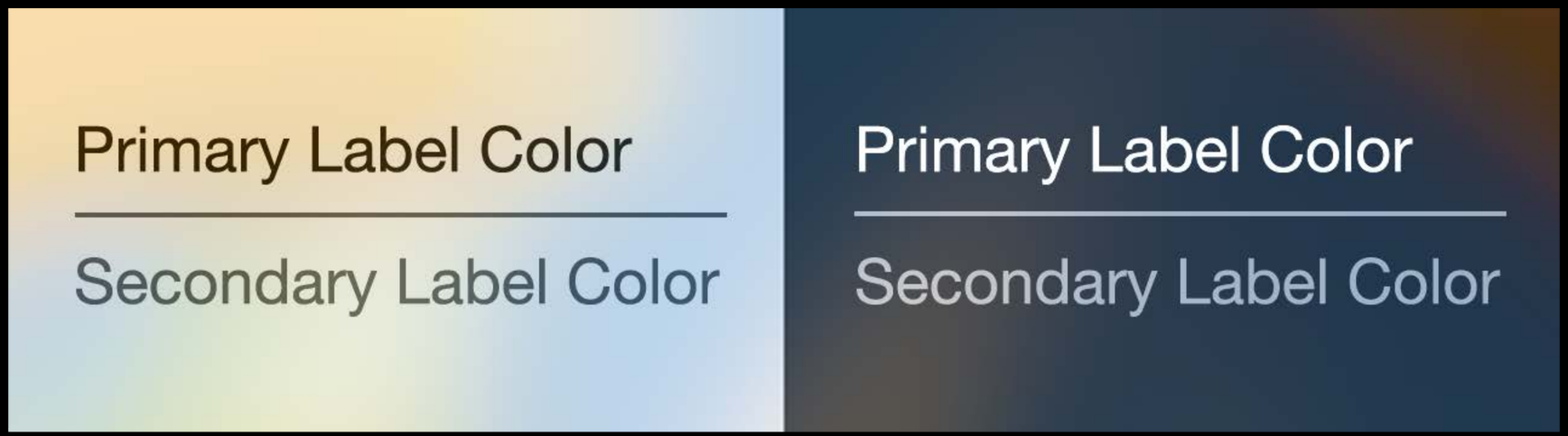
System Colors

Control text adapts to control state



System Colors

Adapt to vibrant NSAppearances



Artwork

Template Images

Maximum flexibility

Template Images

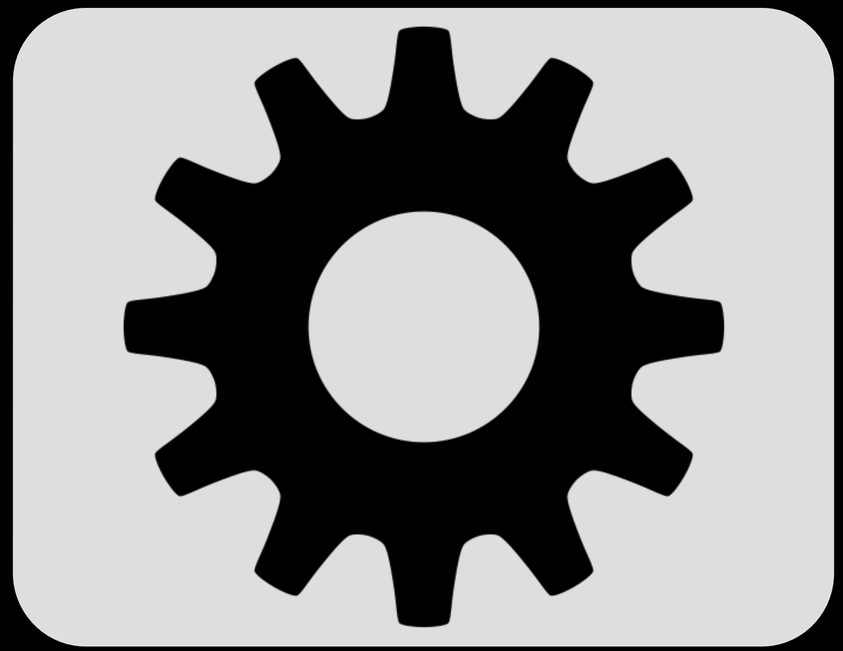
Maximum flexibility

Image provides shape

Template Images

Maximum flexibility

Image provides shape

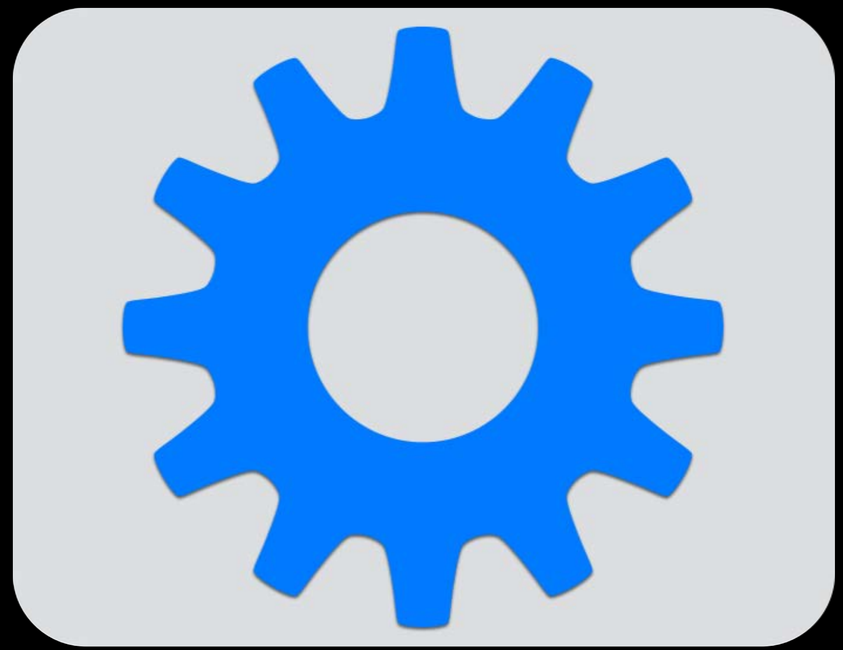


Template Images

Maximum flexibility

Image provides shape

Transformed by AppKit with context specific appearance



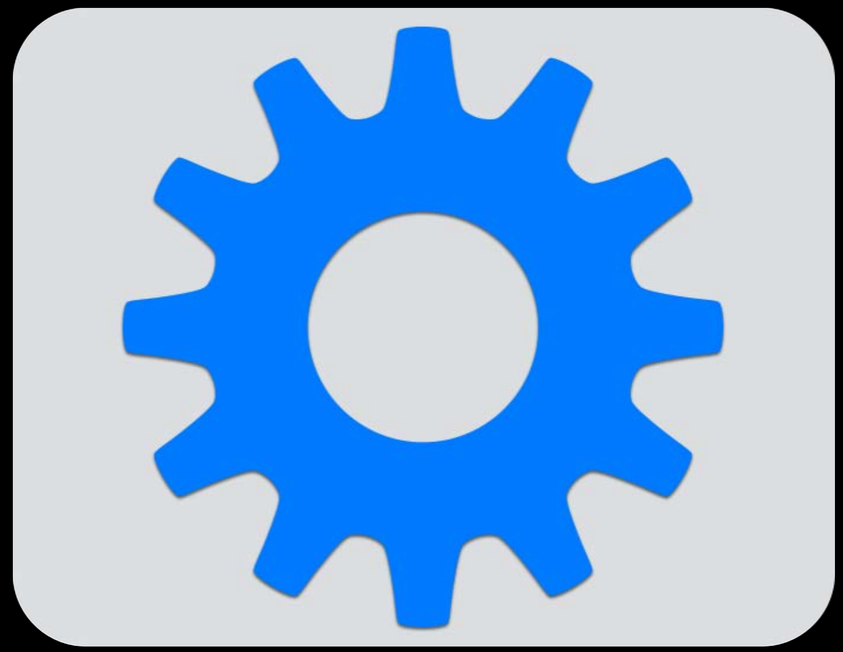
Template Images

Maximum flexibility

Image provides shape

Transformed by AppKit with context specific appearance

Template styling will automatically follow control state



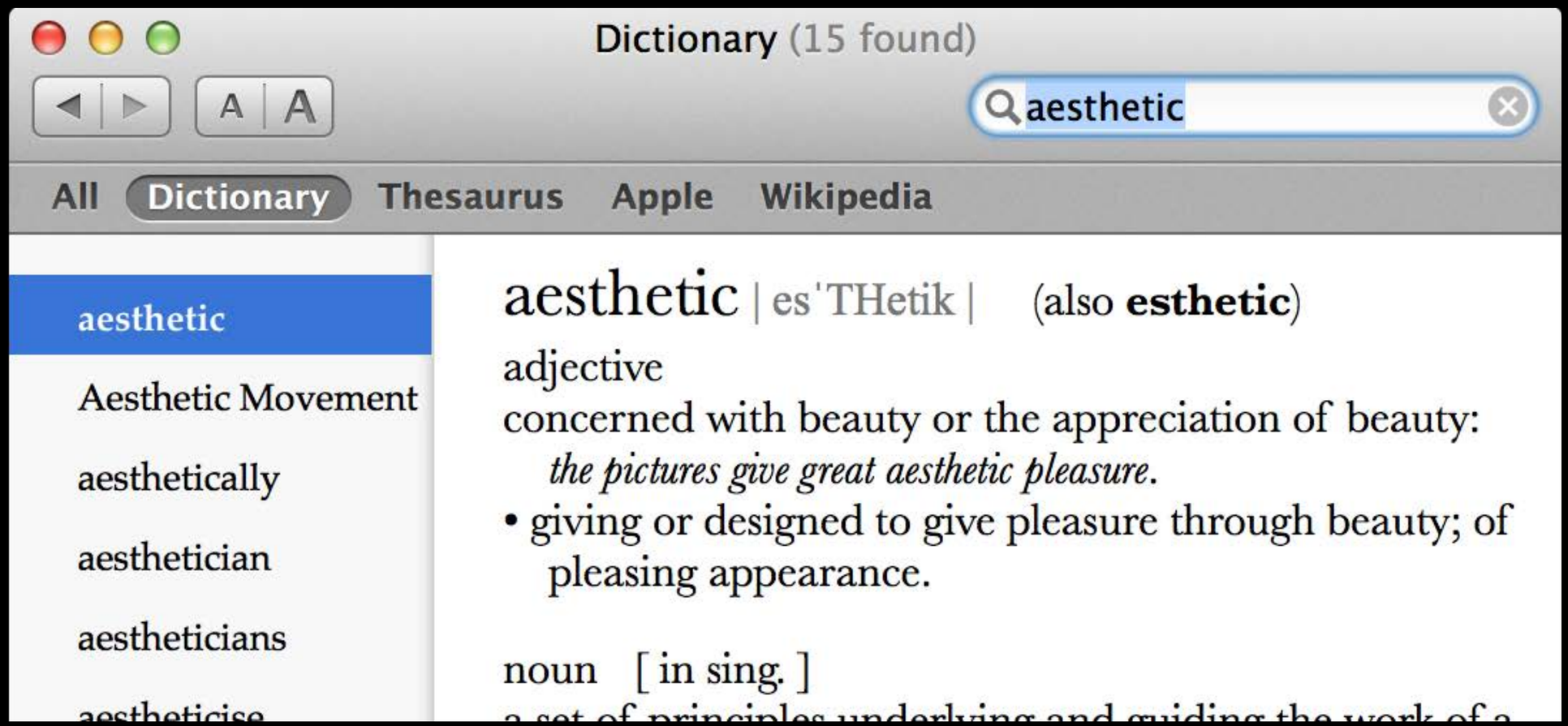
App Compatibility

App Compatibility

New OS X UI brings big changes to your app's look and feel

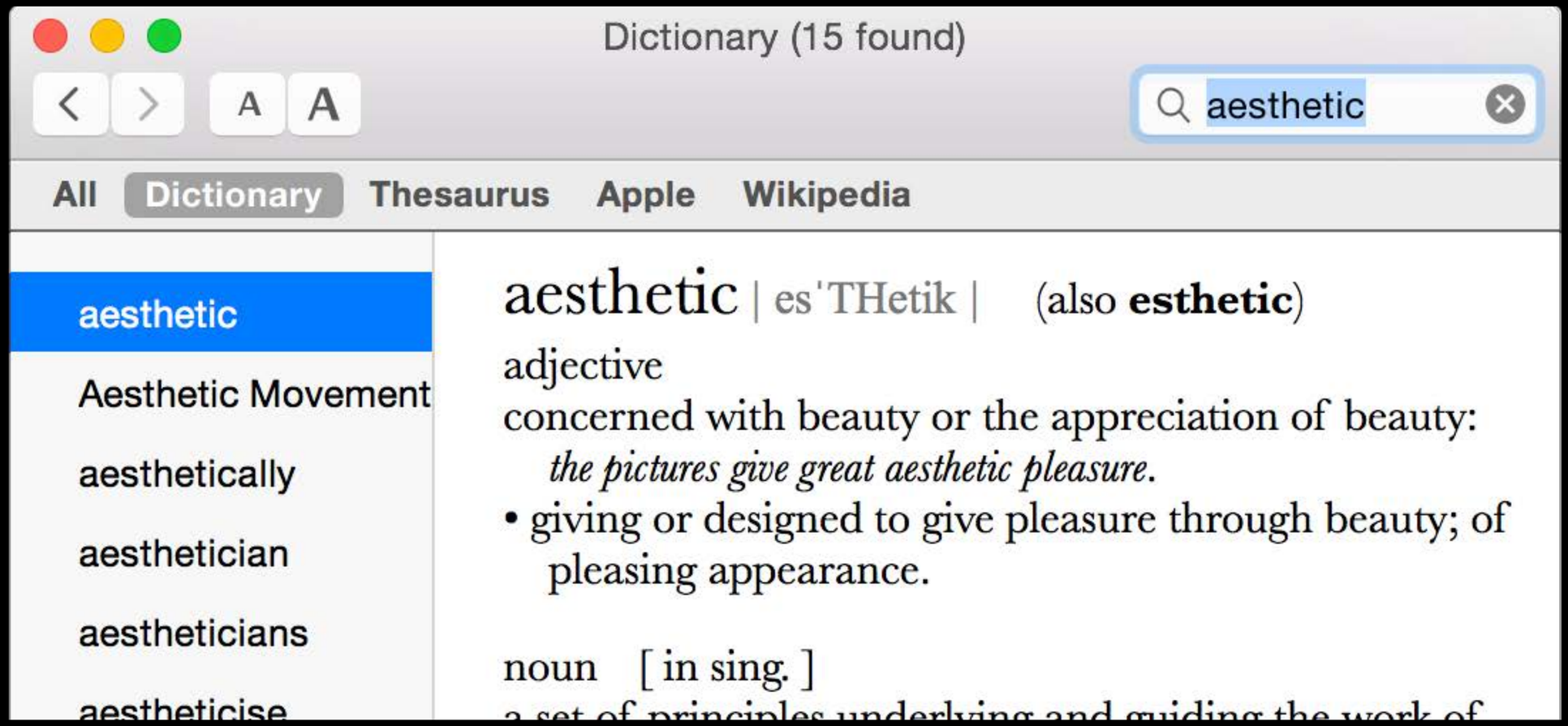
App Compatibility

New OS X UI brings big changes to your app's look and feel



App Compatibility

New OS X UI brings big changes to your app's look and feel



App Compatibility

App Compatibility

Make it awesome on Yosemite

App Compatibility

Make it awesome on Yosemite

What about deploying on Mavericks?

App Compatibility

Make it awesome on Yosemite

What about deploying on Mavericks?

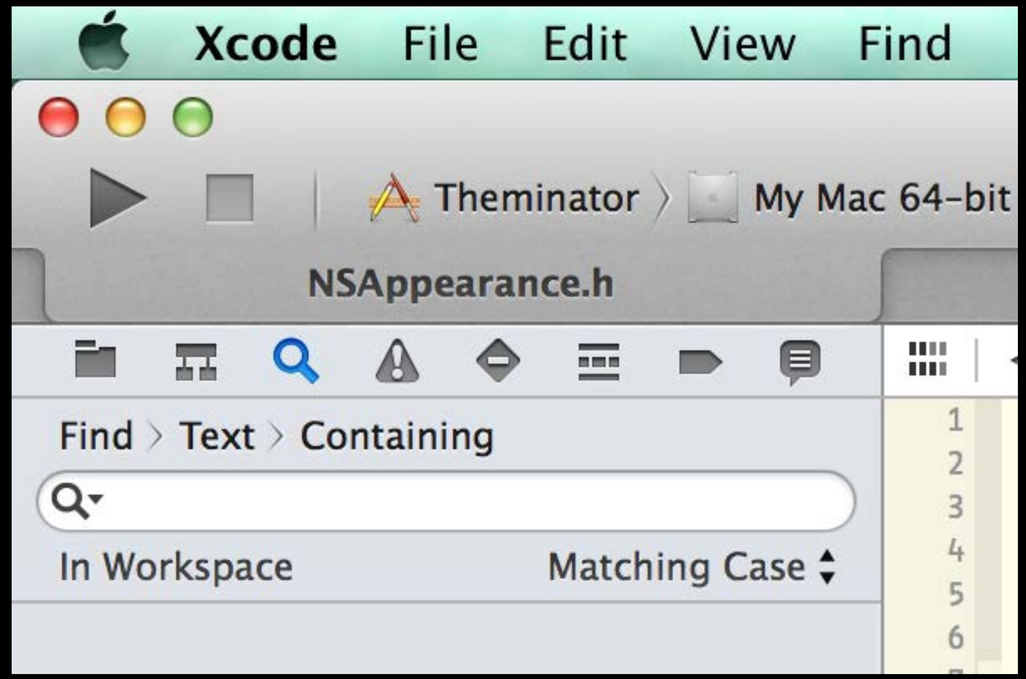
Having it both ways can be hard

App Compatibility

Make it awesome on Yosemite

What about deploying on Mavericks?

Having it both ways can be hard

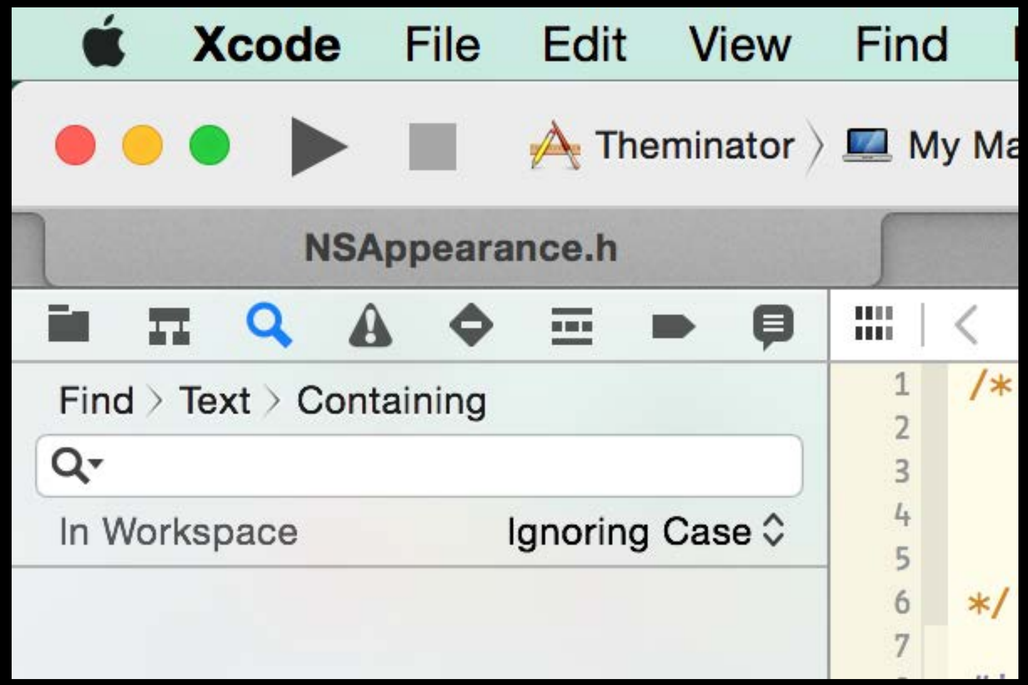


App Compatibility

Make it awesome on Yosemite

What about deploying on Mavericks?

Having it both ways can be hard

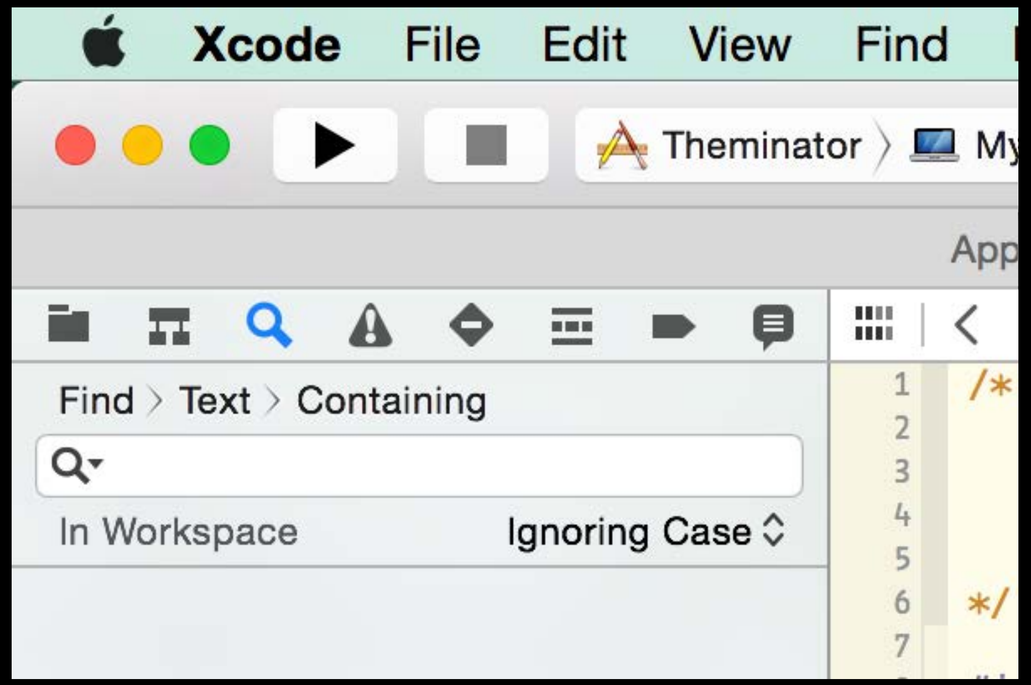


App Compatibility

Make it awesome on Yosemite

What about deploying on Mavericks?

Having it both ways can be hard



App Compatibility

Suggested techniques

Stick with the System!

App Compatibility

Suggested techniques

Use Runtime checks to tailor your code and resources for each design

App Compatibility

Symbol check

App Compatibility

Symbol check

```
 // Check to see if we can go vibrant
    if (&NSAppearanceNameVibrantDark!=0) {
        NSAppearance *vibrantDarkAppearance = [NSAppearance
appearanceNamed:NSAppearanceNameVibrantDark];
        NSVisualEffectView *fxView = [[NSVisualEffectView alloc]
initWithFrame:self.inspector.frame];
…
}
```

App Compatibility

Symbol check

```
 // Check to see if we can go vibrant
    if (&NSAppearanceNameVibrantDark!=0) {
        NSAppearance *vibrantDarkAppearance = [NSAppearance
appearanceNamed:NSAppearanceNameVibrantDark];
        NSVisualEffectView *fxView = [[NSVisualEffectView alloc]
initWithFrame:self.inspector.frame];
…
}
```

App Compatibility

Version check

App Compatibility

Version check

```
if (rint(NSAppKitVersionNumber) > NSAppKitVersionNumber10_9) {
    self.infoView.image = [NSImage imageNamed:@"InfoImageNew"];
} else {
    self.infoView.image = [NSImage imageNamed:@"InfoImageOld"];
}
```

App Compatibility

Version check

```
if (rint(NSAppKitVersionNumber) > NSAppKitVersionNumber10_9) {
    self.infoView.image = [NSImage imageNamed:@"InfoImageNew"];
} else {
    self.infoView.image = [NSImage imageNamed:@"InfoImageOld"];
}
```

App Compatibility

Look for opportunities to freshen your design everywhere

When in doubt, favor the new visual style!

Conclusion

Conclusion

New User Interface design for OS X

Conclusion

New User Interface design for OS X

Understanding vibrancy

Conclusion

New User Interface design for OS X

Understanding vibrancy

Adapting your applications

Conclusion

New User Interface design for OS X

Understanding vibrancy

Adapting your applications

See advanced session for more in-depth exploration

Summary

Exciting changes to design of OS X

Cocoa frameworks can guide you through

More Information

Jake Behrens
Developer Evangelist
behrens@apple.com

Documentation
http://developer.apple.com

Apple Developer Forums
http://devforums.apple.com

Related Sessions

What's New in Cocoa	Presidio	Tuesday 11:30AM
Adopting Advanced Features of the New UI of OS X Yosemite	Marina	Wednesday 2:00PM
Creating Extensions for iOS and OS X, Part 1	Mission	Tuesday 2:00PM
What's New in Interface Builder	Mission	Wednesday 3:15PM
Designing Intuitive User Experiences	Presidio	Tuesday 4:30PM

Labs

• User Interface Design Lab	User Interface Design Lab	Everyday 9:00AM
• New UI and Cocoa Lab	Frameworks Lab B	Wednesday 3:15PM
• Cocoa Lab	Frameworks Lab B	Thursday 4:30PM
• Interface Builder and Live Views Lab	Tools Lab C	Wednesday 9:00AM
• Xcode and Interface Builder Lab	Tools Lab C	Thursday 9:00PM

WWDC14