

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

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

Developer's Tour of Yosemite

Vibrancy

Fonts, Colors, and Artwork

App Compatibility

Design Principles

Developer's Tour of Yosemite

Vibrancy

Fonts, Colors, and Artwork

App Compatibility

Design Principles

Developer's Tour of Yosemite

Vibrancy

Fonts, Colors, and Artwork

App Compatibility

Design Principles

Developer's Tour of Yosemite

Vibrancy

Fonts, Colors, and Artwork

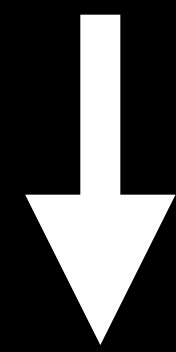
App Compatibility

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 window titled "Pictures For Grandma" showing a grid of six photos. The sidebar on the left includes Favorites (Dropbox, AirDrop, iCloud, Desktop, mikestern, Applications, Documents), Devices, Shared, and Tags. The top toolbar contains navigation, view, and search icons. The status bar at the bottom indicates "10 items, 20.95 GB available".

Favorite Photos:

- IMG_01458.jpeg: A young girl holding a golden retriever puppy.
- IMG_01474.jpeg: A man and a young girl holding a golden retriever puppy.
- IMG_01523.jpeg: A young girl kissing a golden retriever puppy.

Other Photos (partially visible):

- Bottom-left: A close-up of a young girl and a golden retriever puppy.
- Bottom-middle: A young girl kissing a golden retriever puppy.
- Bottom-right: A young girl holding a golden retriever puppy.

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

Finder window titled "Pictures For Grandma" showing a grid of six photos. The sidebar on the left includes Favorites (Dropbox, AirDrop, iCloud, Desktop, mikestern, Applications, Documents), Devices, Shared, and Tags. The top toolbar contains navigation, view, and search icons. The status bar at the bottom indicates "10 items, 20.95 GB available".

Photos:

- Top-left: A young girl holding a golden retriever puppy. File name: IMG_01458.jpeg
- Top-middle: A man and a young girl holding a golden retriever puppy. File name: IMG_01474.jpeg
- Top-right: A young girl kissing a golden retriever puppy. File name: IMG_01523.jpeg
- Bottom-left: A close-up of a young girl and a golden retriever puppy. File name: IMG_01459.jpeg
- Bottom-middle: A close-up of a young girl and a golden retriever puppy. File name: IMG_01475.jpeg
- Bottom-right: A close-up of a young girl and a golden retriever puppy. File name: IMG_01524.jpeg

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



Pictures For Grandma Search

Navigation: < > [Grid] [Compare] [Web] [Full Screen] [Settings] [Share] [Back]




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





Simplicity



JUL

17



Mavericks



Yosemite



JUL

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

17



JUL

17

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

JUL

17

Lucida Grande

Helvetica Neue

Lucida Grande

A large, white, uppercase letter 'S' rendered in the Lucida Grande font. The letter has a thick, rounded, and slightly irregular stroke, characteristic of a humanist sans-serif typeface. The top and bottom curves are soft and rounded, and the vertical stems are also rounded at the ends.

Lucida Grande

A large, white, uppercase letter 'S' rendered in the Helvetica Neue font. The letter has a clean, uniform, and geometric stroke, characteristic of a modern sans-serif typeface. The curves are sharp and precise, and the vertical stems are straight and consistent in thickness.

Helvetica Neue

A large, stylized letter 'S' rendered in the Lucida Grande font. The letter is split horizontally: the top half is a dark gray color, and the bottom half is white. The font is a clean, rounded sans-serif style.

Lucida Grande

A large, stylized letter 'S' rendered in the Helvetica Neue font. The letter is split horizontally: the top half is a dark gray color, and the bottom half is white. The font is a clean, modern sans-serif style with a slightly different proportion than Lucida Grande.

Helvetica Neue

A large, white, stylized lowercase letter 'a' rendered in the Lucida Grande font. The letter has a thick, rounded, and somewhat irregular shape, characteristic of a humanist sans-serif typeface. The bowl of the 'a' is deep and rounded, and the stem is thick and curves slightly to the right at the bottom.

Lucida Grande

A large, white, stylized lowercase letter 'a' rendered in the Helvetica Neue font. This version of the 'a' is more geometric and uniform in stroke width compared to the Lucida Grande version. It has a clean, rounded top and a straight stem that tapers slightly towards the bottom.

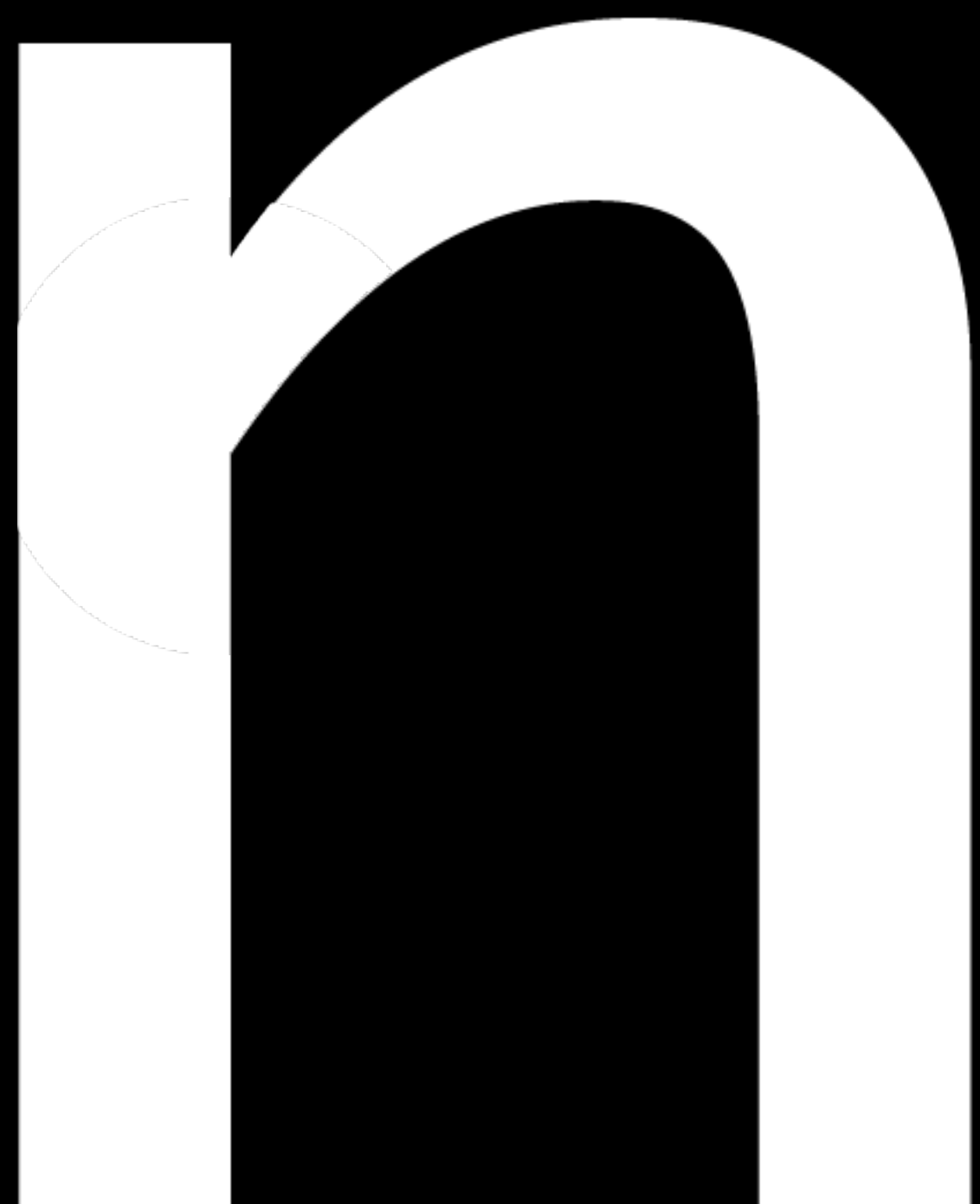
Helvetica Neue



Lucida Grande



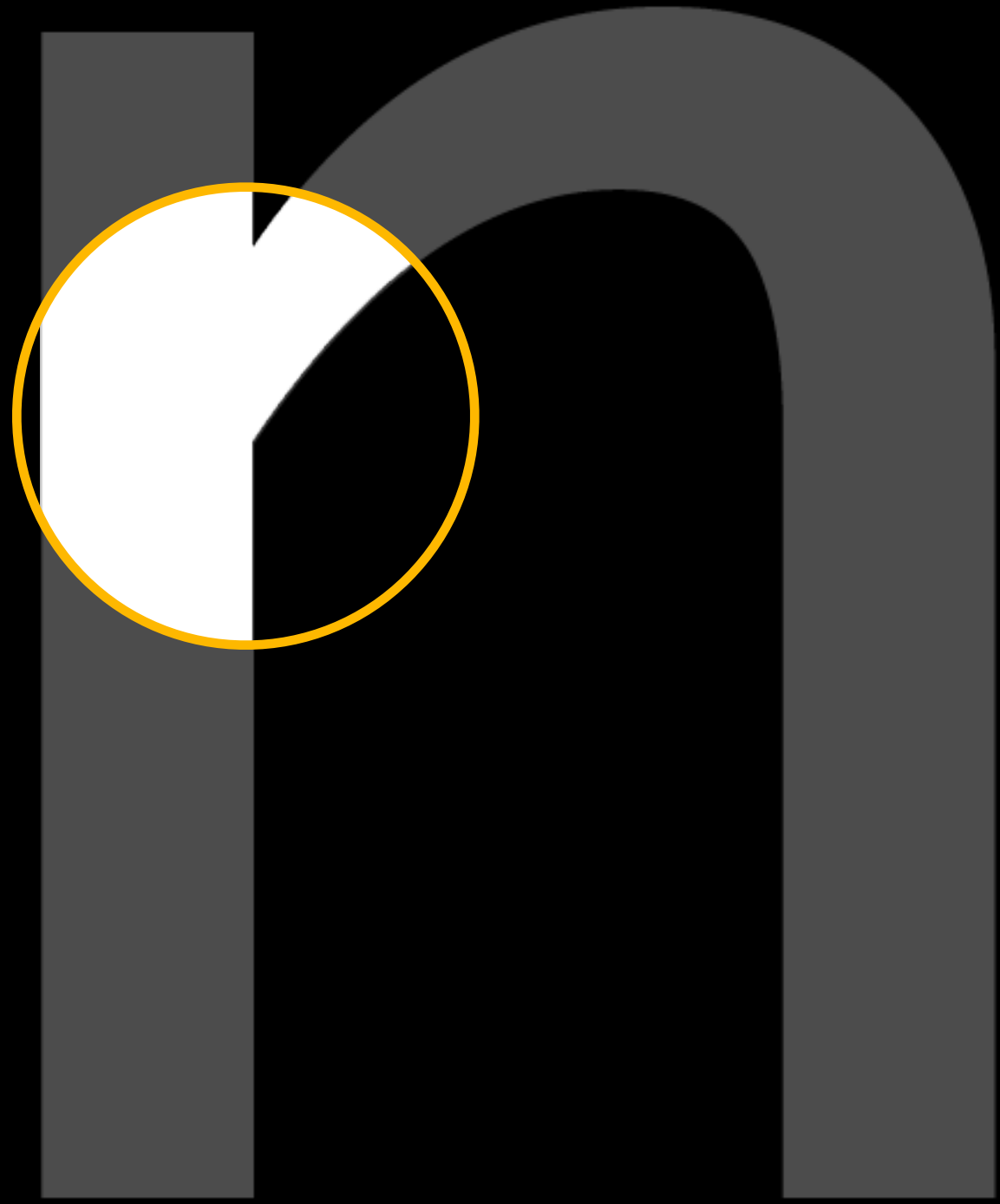
Helvetica Neue

A large, white lowercase letter 'n' rendered in the Lucida Grande font. The letter has a thick, rounded stem and a curved top that tapers slightly towards the right. The overall appearance is clean and modern.

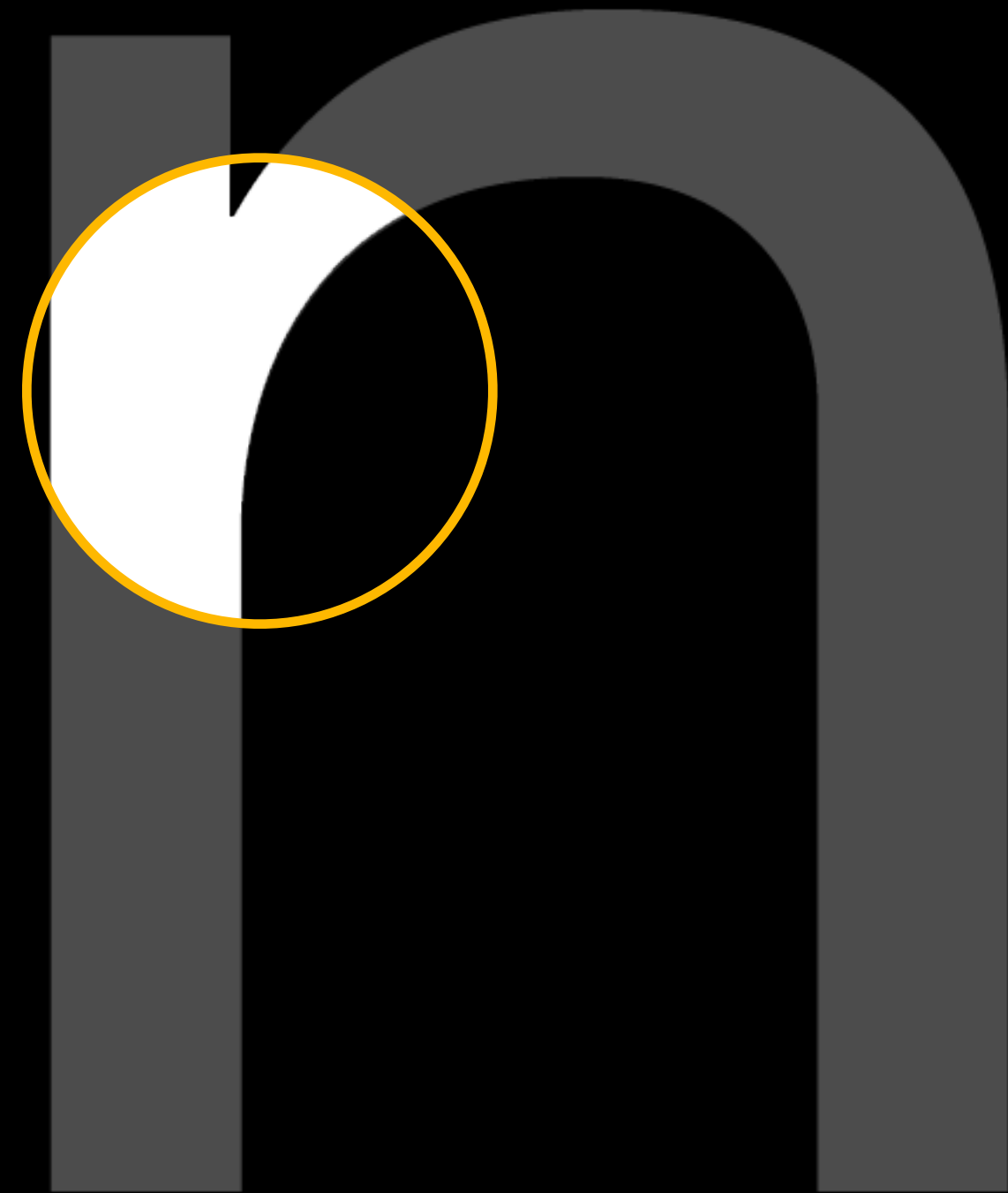
Lucida Grande

A large, white lowercase letter 'n' rendered in the Helvetica Neue font. The letter has a thick, rounded stem and a curved top that tapers slightly towards the right. The overall appearance is clean and modern.

Helvetica Neue



Lucida Grande



Helvetica Neue

1:1.37

B D

Lucida Grande

1:1.05

B D

Helvetica Neue

Consistency





















Helvetica Neue

Notes — Potential dog names

May 21, 2:59 PM

Search

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

Potential dog names

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

+ ↗

Notes — Potential dog names May 21, 2:59 PM

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

Potential dog names

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

+ ↗

Logic Pro X transport and control bar. Includes play, stop, and record buttons. Tempo: 125 bpm, Time Signature: 4/4, Key Signature: C major. Includes a volume fader and various utility icons.

Logic Pro X Tracks area. Shows 10 tracks: Drummer, Synth Pad Layers, Electric Piano, Drum Machine, Guitar, Funk Bass, Lead Vocal, Grand Piano, and Synth Lead. Each track has a colored waveform and a MIDI piano roll. The Lead Vocal track is currently selected.

Logic Pro X Channel EQ and routing panel for the selected Lead Vocal track. Includes settings for Input 1, Channel EQ, Compressor, Ensemble, Space D, Bus 1, Stereo Out, and Read buttons. It also features two frequency sliders and I/R, M/S, and Bncc/S buttons.

Logic Pro X Flex Pitch and MIDI editor for the Lead Vocal track. The Flex Pitch section shows a piano roll with pitch correction lines. The MIDI editor below shows a piano roll with notes and a keyboard view.

MySong - Tracks

2/4 2 125 92 Cmaj 4/4
[MIDI] [Piano] [Drums] [Mixer] [Automation] [Solo] [Mute] [Volume] [Pan] [Send] [Group] [Color] [Solo] [Mute] [Volume] [Pan] [Send] [Group] [Color]

Region: MIDI Thru

Groups

Track: Lead Vocal

Setting Setting

Input 1

Channel EQ Compressor Ensemble Space D

Gain 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

Edit Functions View Snap: Smart Drag: No Overlap

Track	Instrument	Color
1	Drummer	Yellow
2	Synth Pad Layers	Green
5	Electric Piano	Teal
6	Drum Machine	Blue
7	Guitar	Light Blue
8	Funk Bass	Dark Blue
9	Lead Vocal	Dark Purple
10	Grand Piano	Purple
	Synth Lead	Light Purple

Track File

Edit View Flex Pitch

1 1.3 2 2.3 3

Lead Vocal

Time Quantize off

Strength 100

Gain 0

C4

MySong - Tracks

2 4 2 125 92 Cmaj 4/4

Region: MIDI Thru Edit Functions View Snap: Smart Drag: No Overlap

Groups
Track: Lead Vocal

1	Drummer	Drummer
2	Synth Pad Layers	Synth Pad Layers
5	Electric Piano	Electric Piano
6	Drum Machine	Drum Machine
7	Guitar	Guitar
8	Funk Bass	Funk Bass
9	Lead Vocal	Lead Vocal
10	Grand Piano	Grand Piano
	Synth Lead	Synth Lead

Channel EQ Compressor Ensemble Space D

Input 1

Gain Compressor Multipl

Channel EQ

Bus 1

Stereo Out

Read

0.0 -13 14.0 -10

I R Bnc

M S M S

Lead Vocal Stereo Out

Edit View Flex Pitch

1 1.3 2 2.3

Lead Vocal

Time Quantize off

Strength 100

Gain 0

Lucida Grande

Helvetica Neue



Pictures For Grandma

Search


Favorites

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

Devices

Shared

Tags



10 items, 20.97 GB available

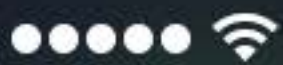
The window displays a grid of six photographs. The top row contains three photos: a young girl holding a puppy (IMG_01458.jpeg), a man and a girl holding a puppy (IMG_01474.jpeg), and a woman holding a puppy (IMG_01523.jpeg). The bottom row contains three more photos showing close-ups of children and puppies. The window title is 'Pictures For Grandma' and it includes a search bar and a sidebar with navigation options.







Depth



9:41 AM

100%

Today

All

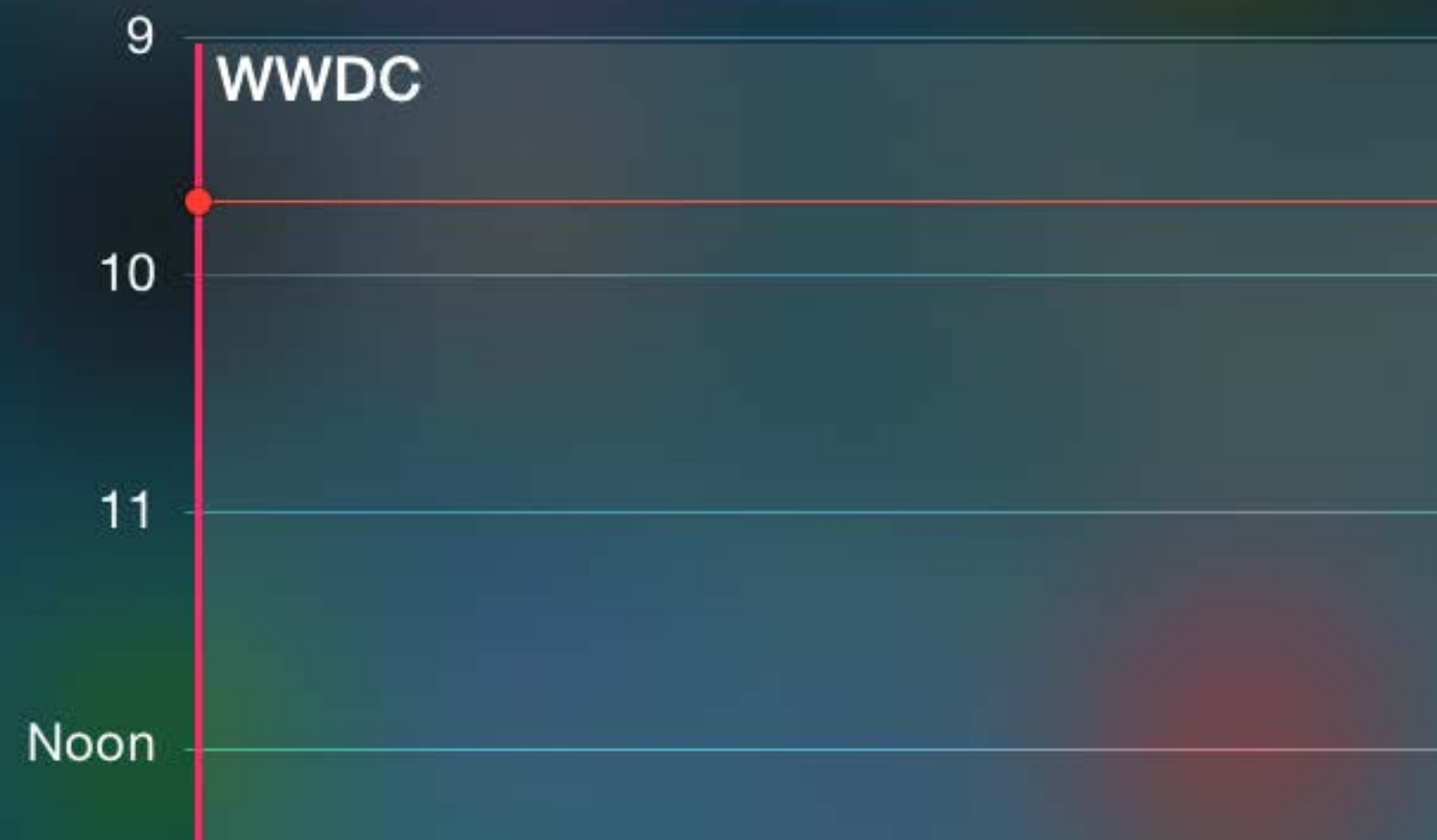
Missed

Tuesday, June 3rd

Partly cloudy currently. It's 72°;
the high today was forecast as
76°.



Calendar





Messages



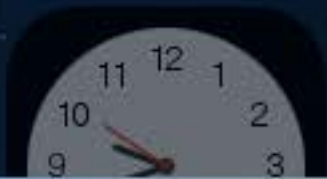
Calendar



Photos



Camera



Control Center menu with icons for:

- Airplane Mode
- Wi-Fi
- Bluetooth
- Night Shift
- Screen Lock

Brightness slider

0:00 | -8:20
 Get Lucky (feat. Pharrell Williams)
 Daft Punk - Random Access Memories

Media playback controls: Previous, Play/Pause, Next, and Volume slider.

AirDrop and AirPlay sharing options

Utility app icons: Flashlight, Stopwatch, Calculator, and Camera



Pictures For Grandma Search

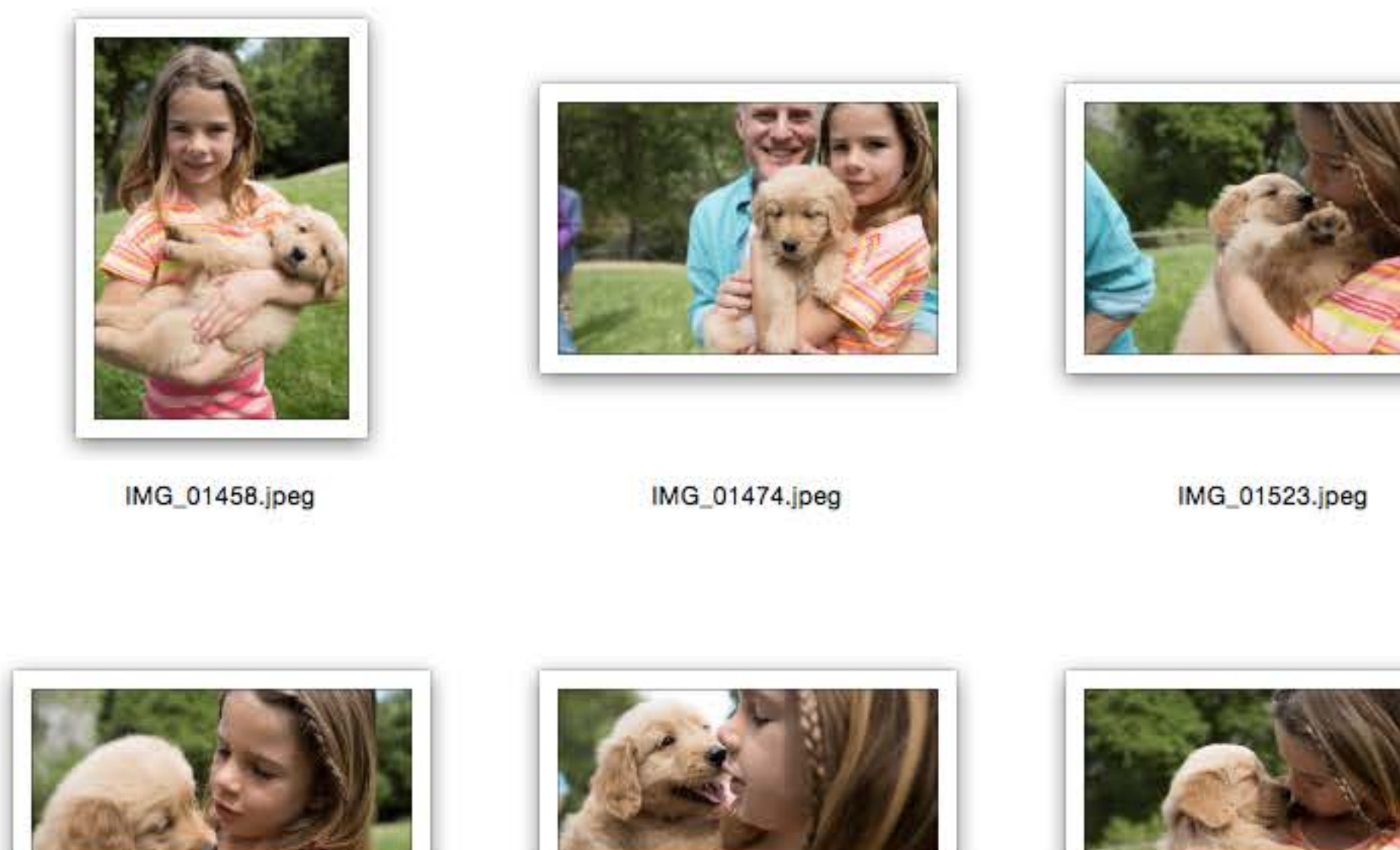
Favorites

- 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

Today Notifications

Monday, June 2nd

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

Social

[LinkedIn](#) [Pinterest](#) [Reddit](#) [Facebook](#) [Twitter](#) [Messages](#)

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

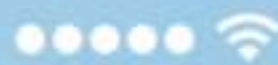
3:20 PM ☁️ **Cupertino** 75°

World Clock



[Edit](#) Settings





9:41 AM

100%



Messages



Calendar



Photos



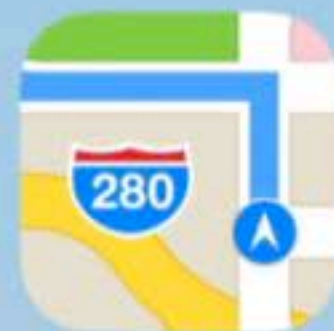
Camera



Weather



Clock



Maps



Videos



Notes



Reminders



Stocks



Game Center



Newsstand



iTunes Store



App Store



Passbook



Compass



Settings



Phone



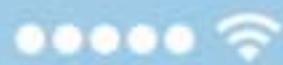
Mail



Safari



Music



9:41 AM

100%



Messages



Calendar



Photos



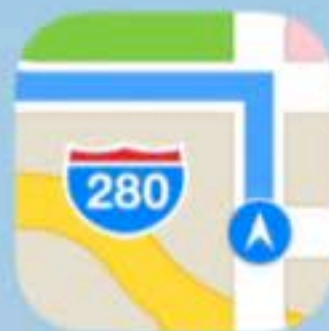
Camera



Weather



Clock



Maps



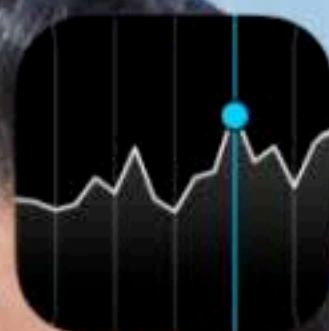
Videos



Notes



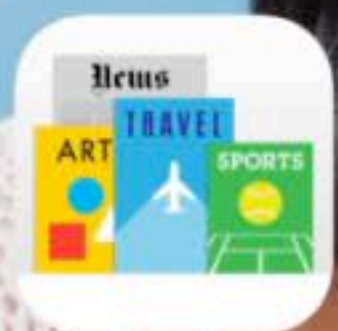
Reminders



Stocks



Game Center



Newsstand



iTunes Store



App Store



Passbook



Compass



Settings



Phone



Mail



Safari



Music

Pictures For Grandma

Search

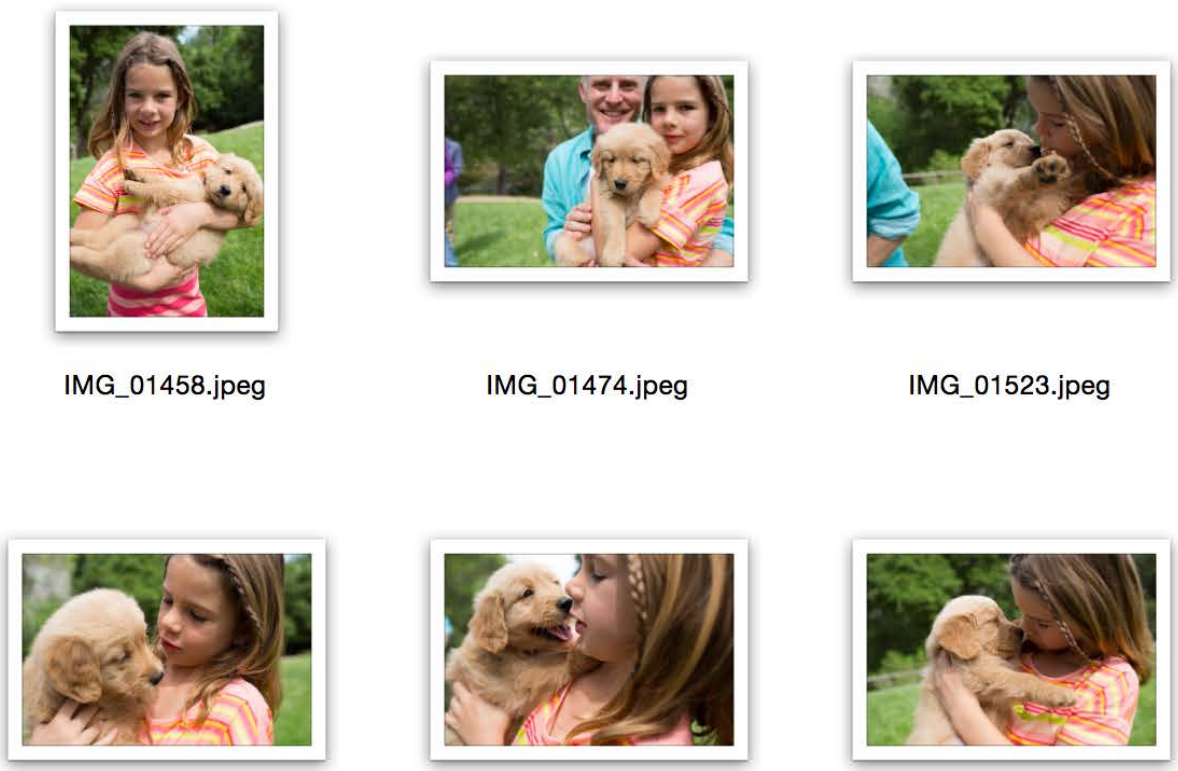
Favorites

- 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



johnnyappleseed



Q 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

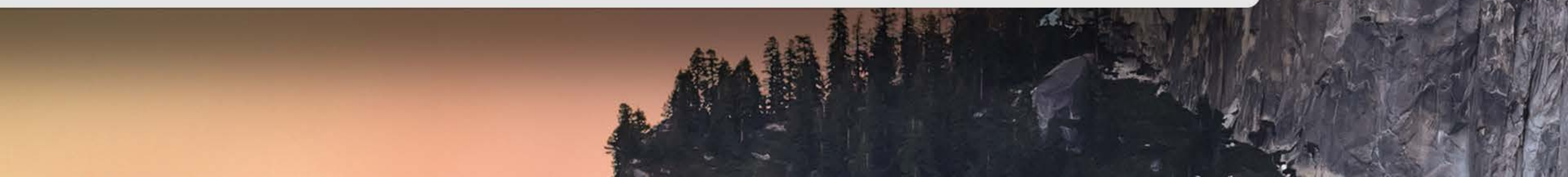


Q Search

	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

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

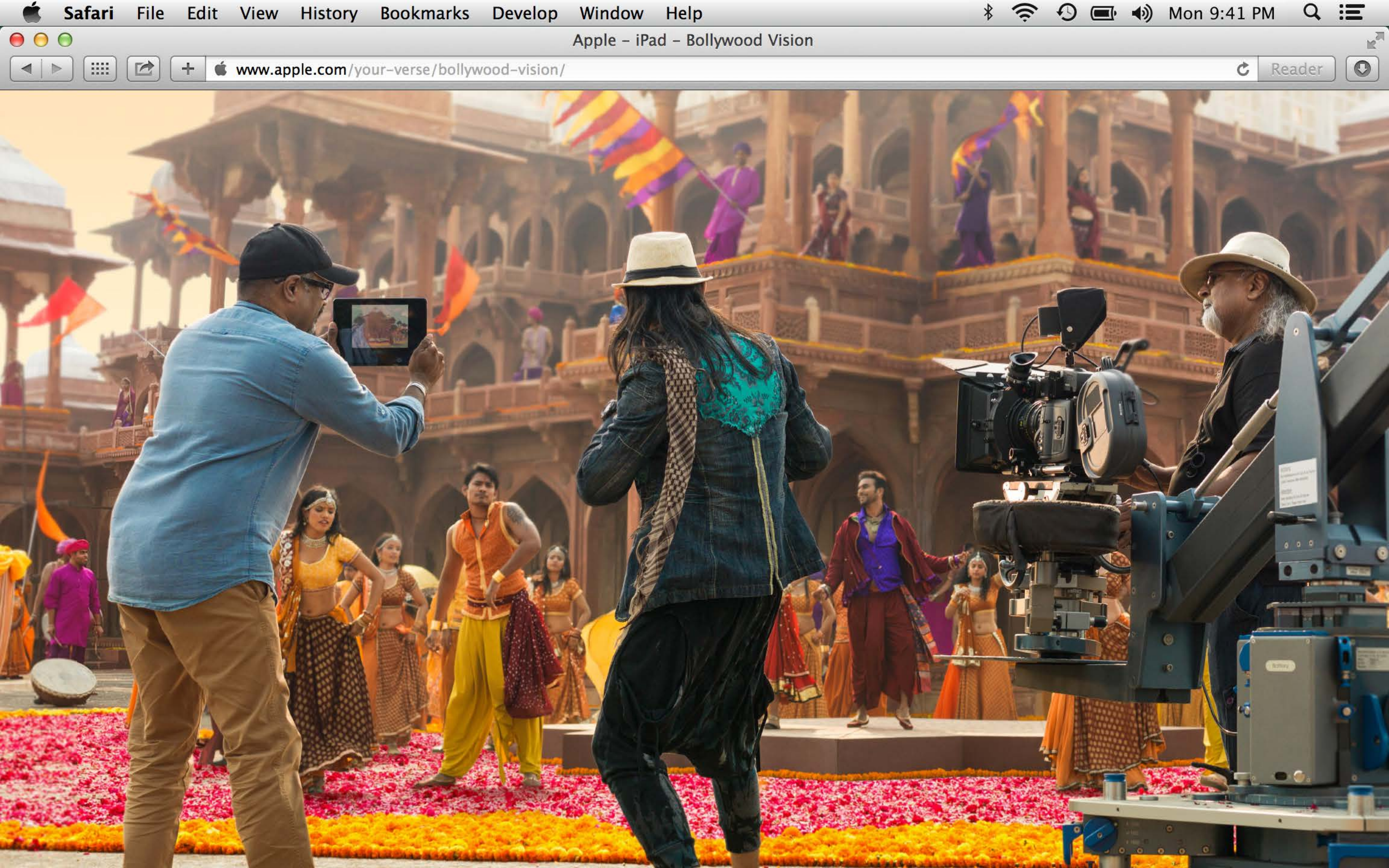
9 selected, 670.57 GB available

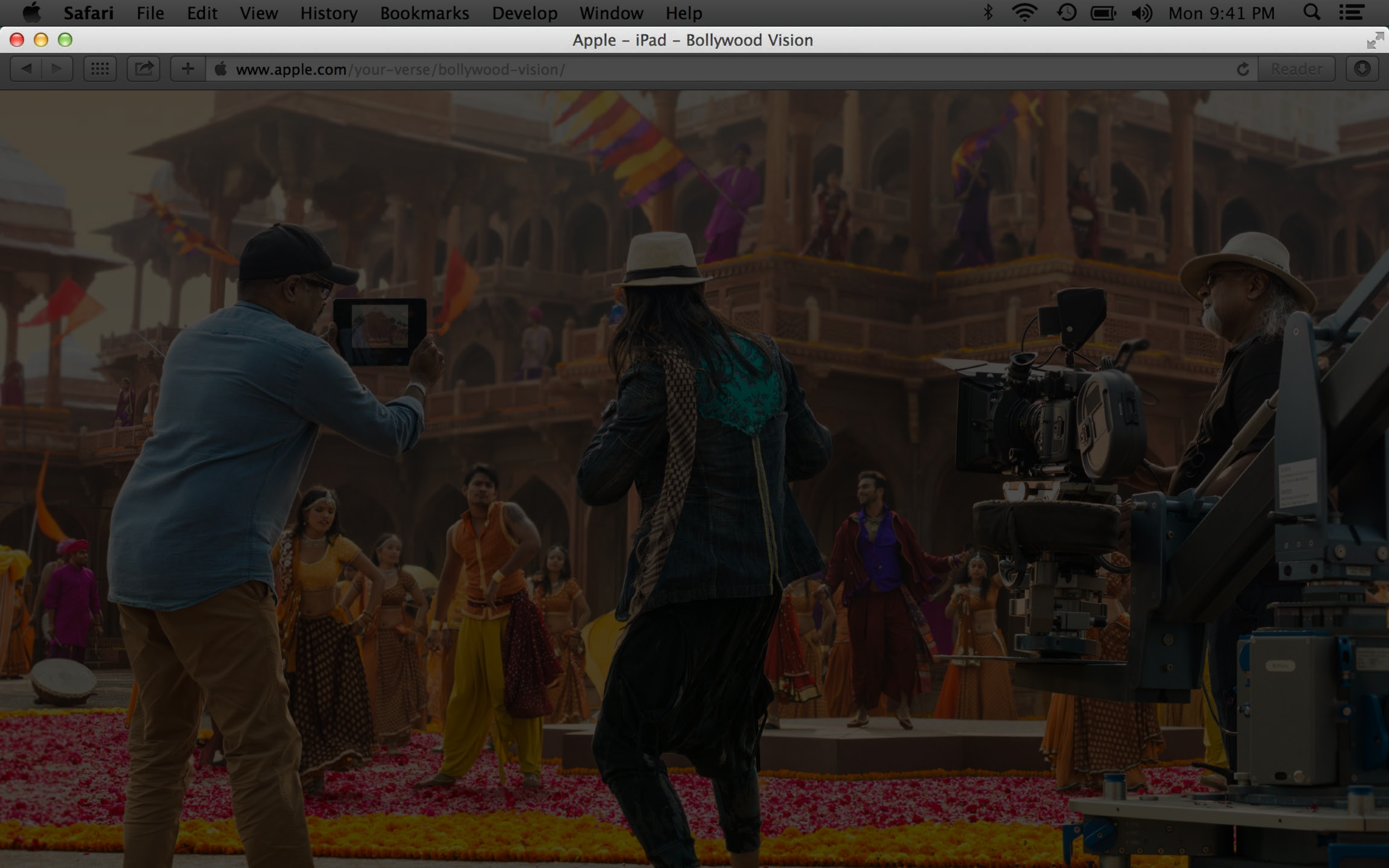


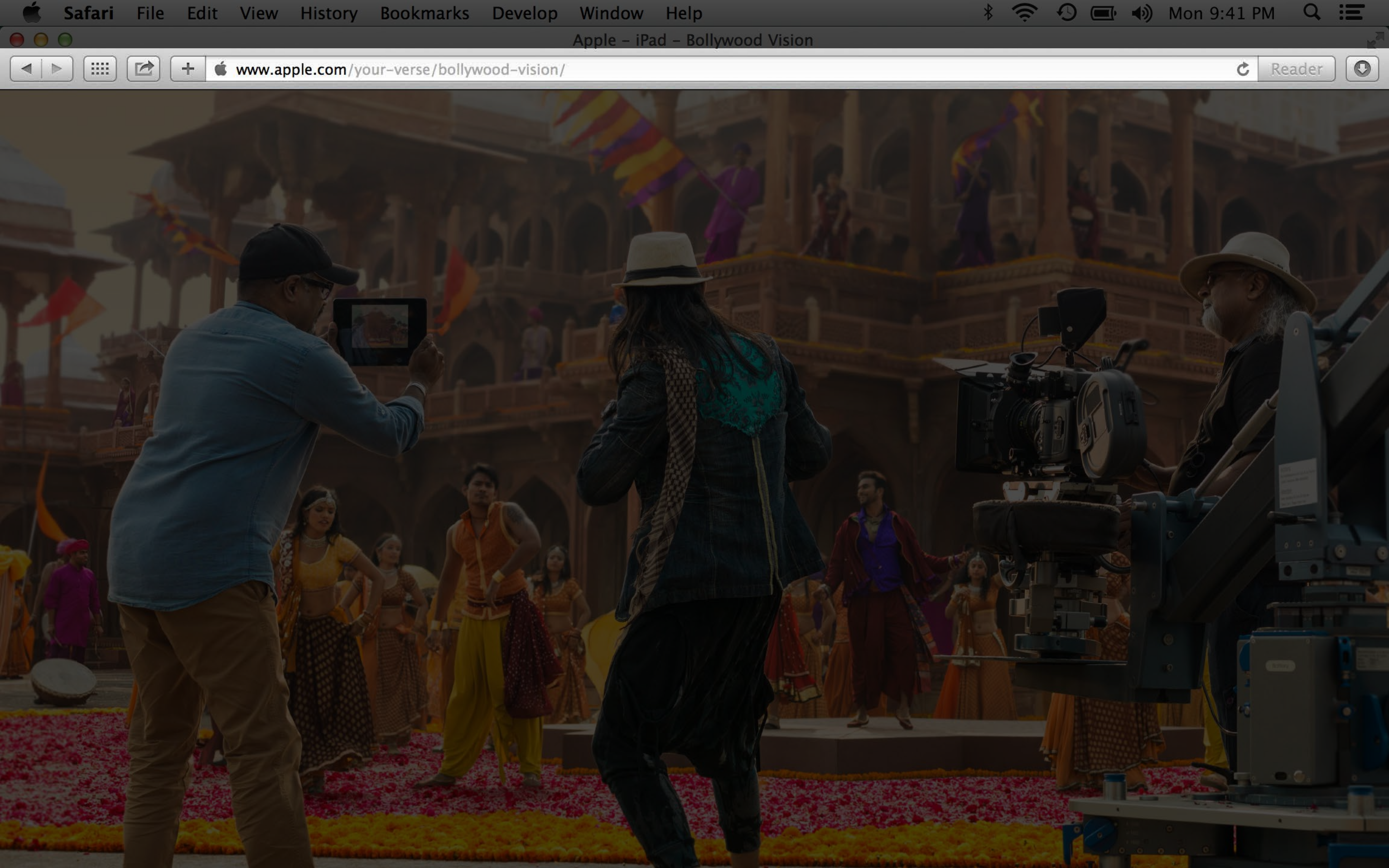
Content-Focused

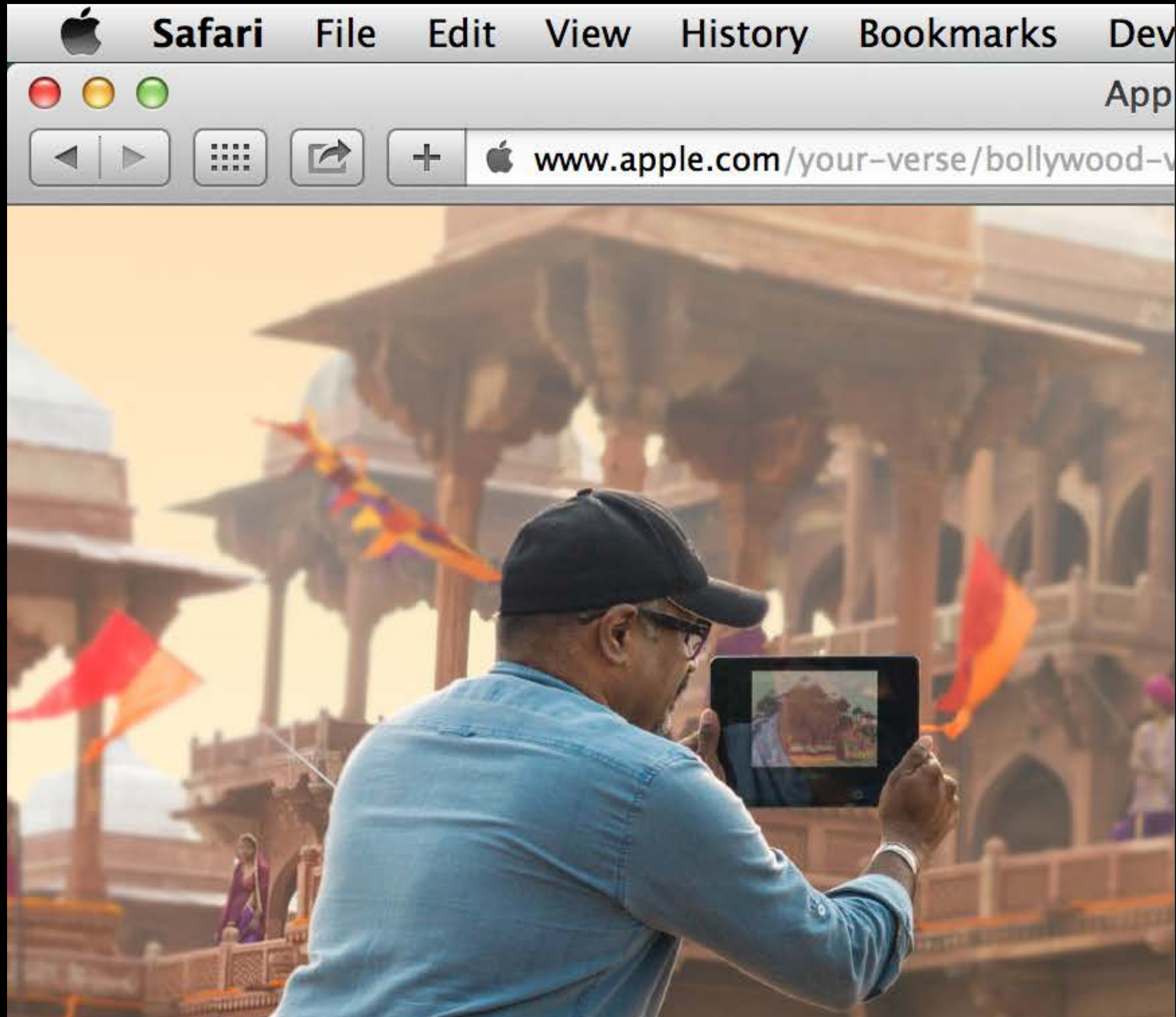




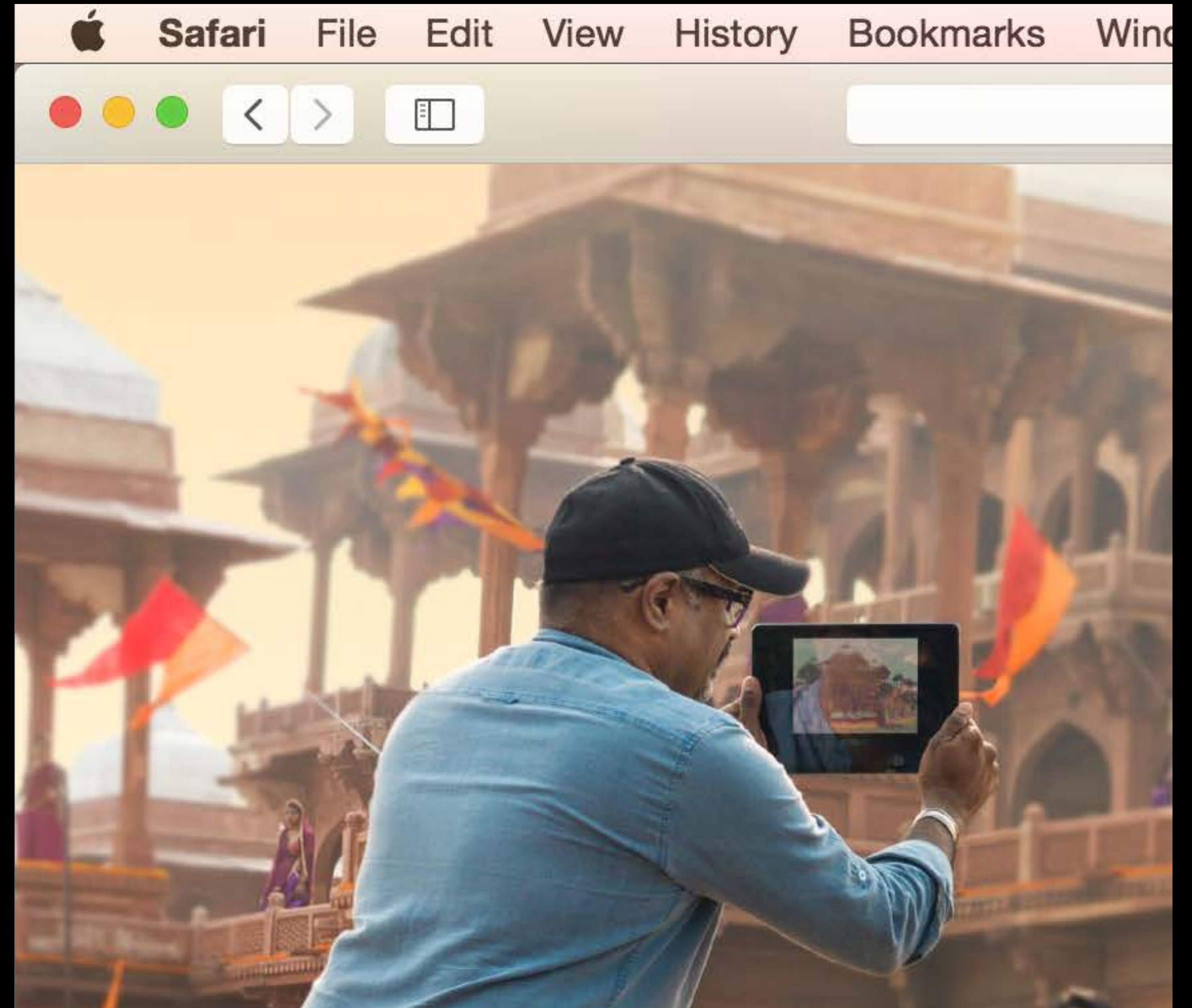








Mavericks



Yosemite







Safari

File

Edit

View

History

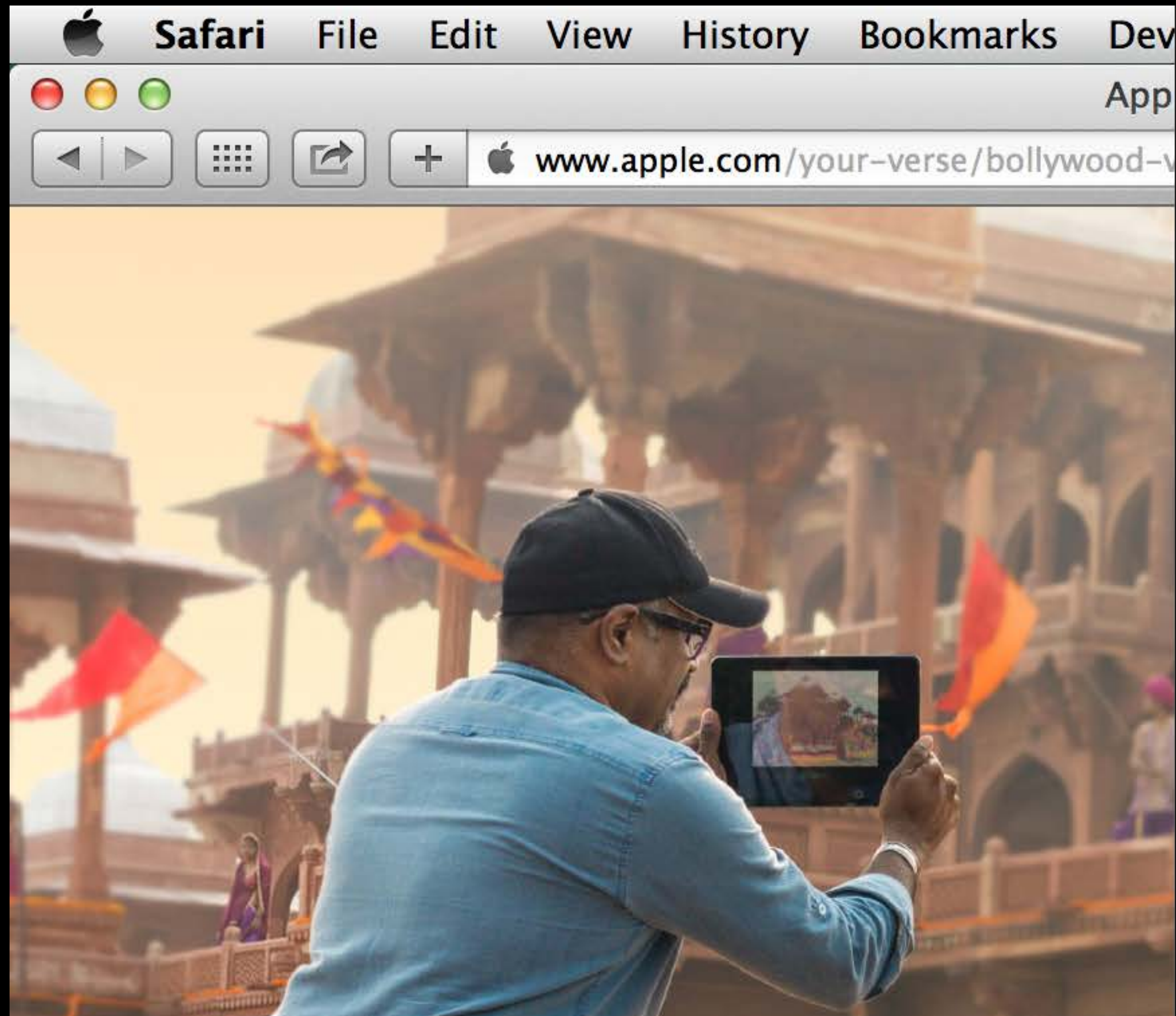
Bookmarks

Window

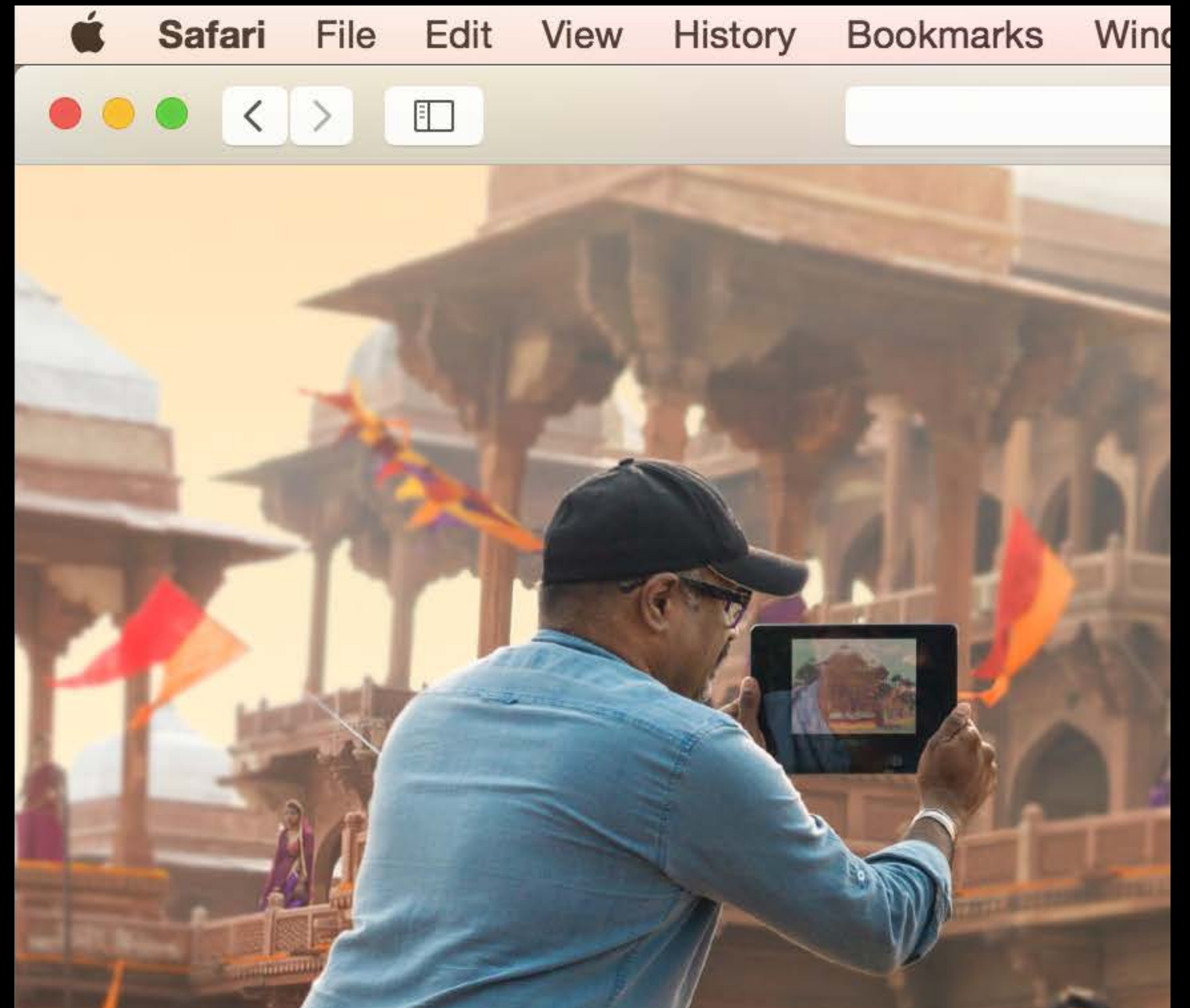


apple.com

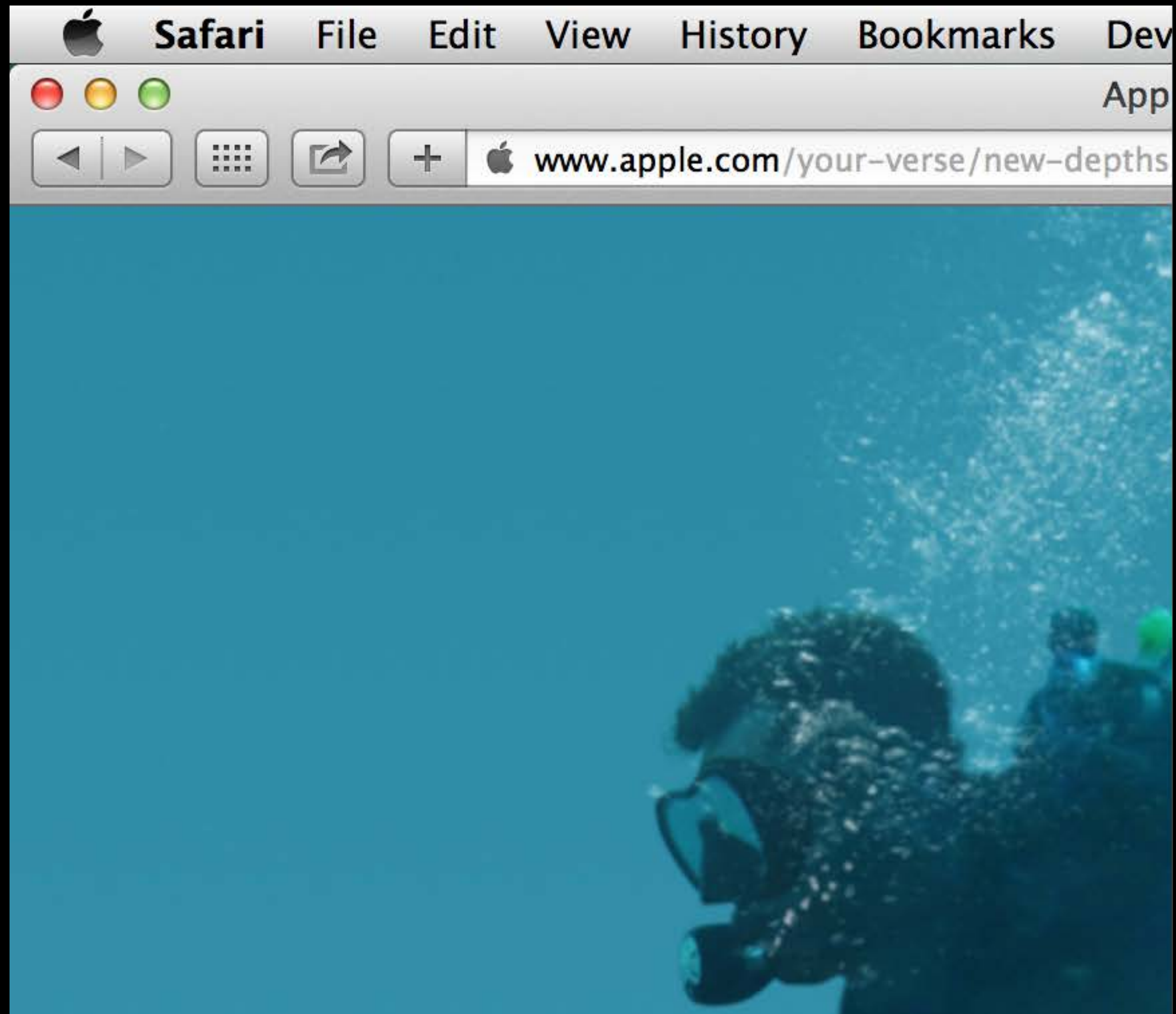




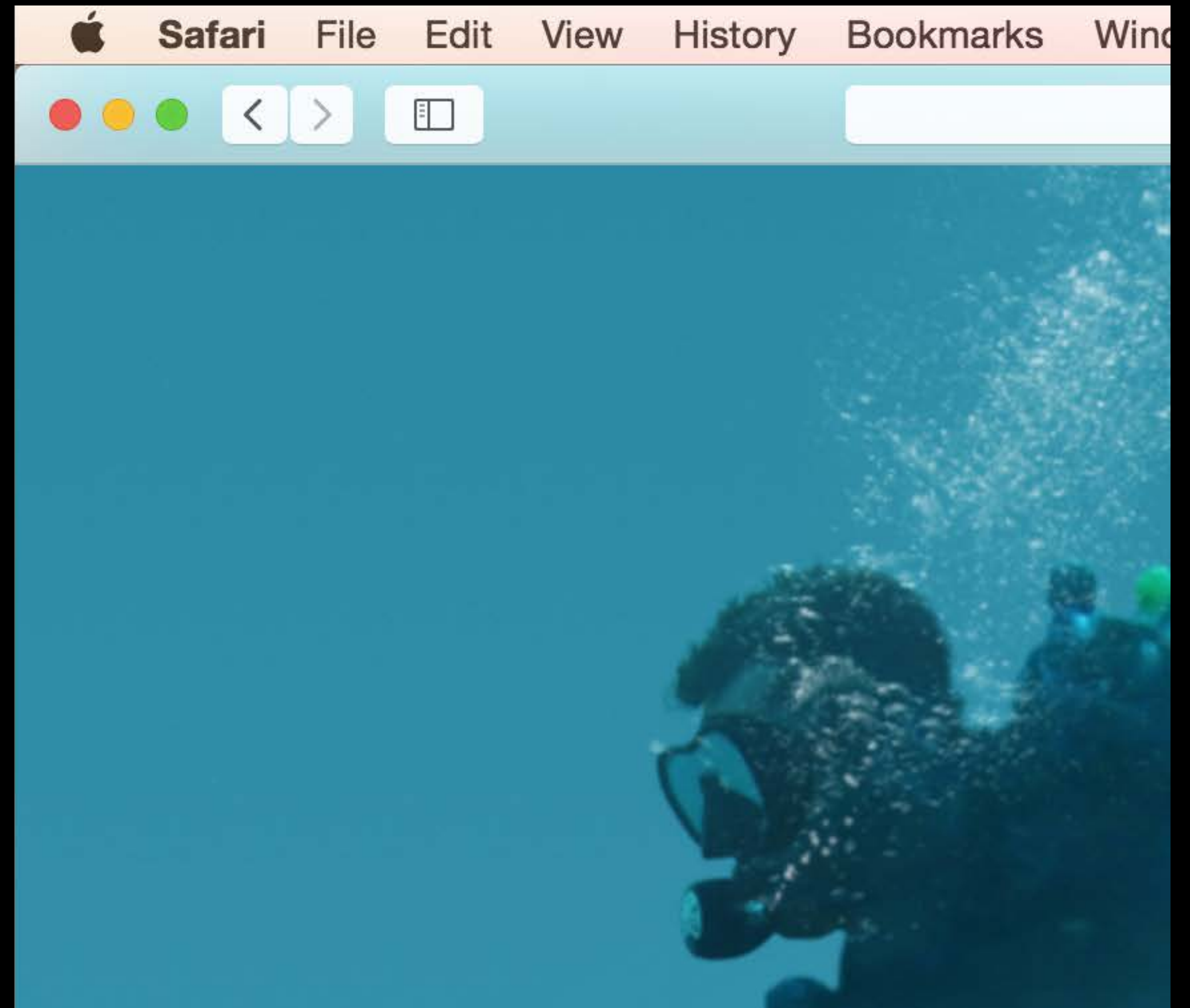
Mavericks



Yosemite



Mavericks



Yosemite

Developer's Tour of Yosemite

Rachel Goldeen

Cocoa Software Engineer

Mountain Biking with Jordan

Navigation: < > [Grid] [List] [Compare] [Web] [Grid] [Settings] [Share] [Link]

Search: Search


Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads


Devices

Shared

Tags



MTBwJordan1.jpg



MTBwJordan2.jpg

2 items, 21.16 GB available

Mac OS X Dock containing icons for: Finder, Launchpad, Safari, Mail, iPhoto, iMovie, Calendar (MAY 27), Reminders, Notes, Maps, Messages, Photos, Pages, Numbers, Keynote, Music, iBooks, App Store, System Preferences, and Trash.

Mountain Biking with Jordan

Navigation: < > [Grid] [List] [Compare] [Web] [Grid] [Settings] [Share] [Link]

Search: Search

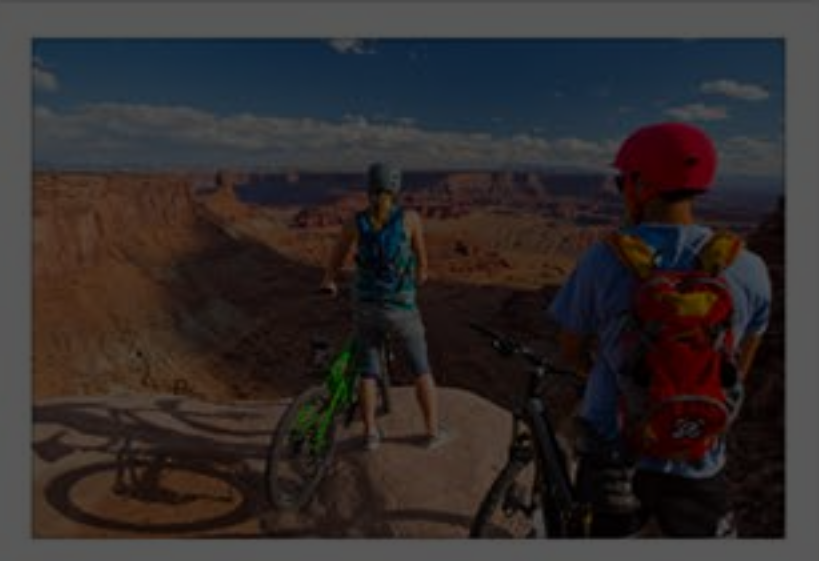
Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads


Devices

Shared

Tags



MTBwJordan1.jpg



MTBwJordan2.jpg

2 items, 21.16 GB available



Mountain Biking with Jordan

Navigation: < > [Grid] [List] [Compare] [Web] [Grid] [Settings] [Share] [Back]

Search: Search

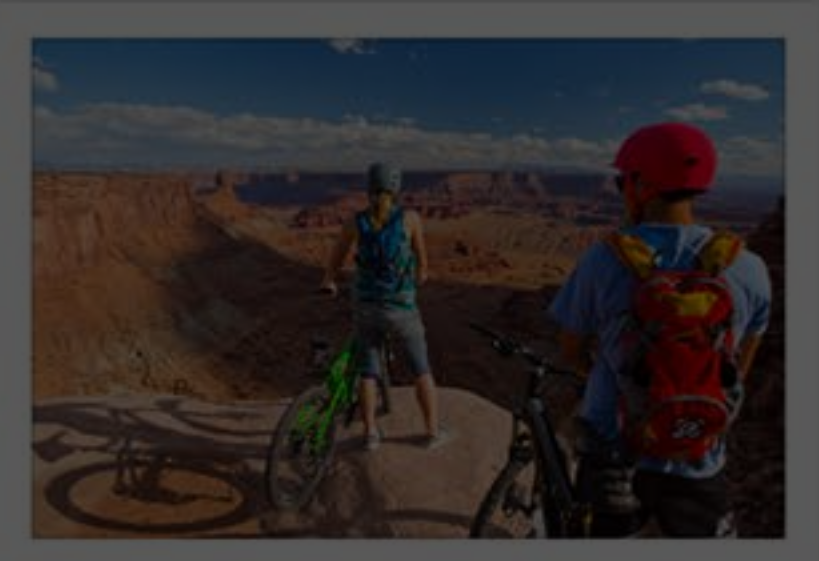
Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads


Devices

Shared

Tags



MTBwJordan1.jpg



MTBwJordan2.jpg

2 items, 21.16 GB available



Mountain Biking with Jordan

< >

Grid View Settings Share Back

Search

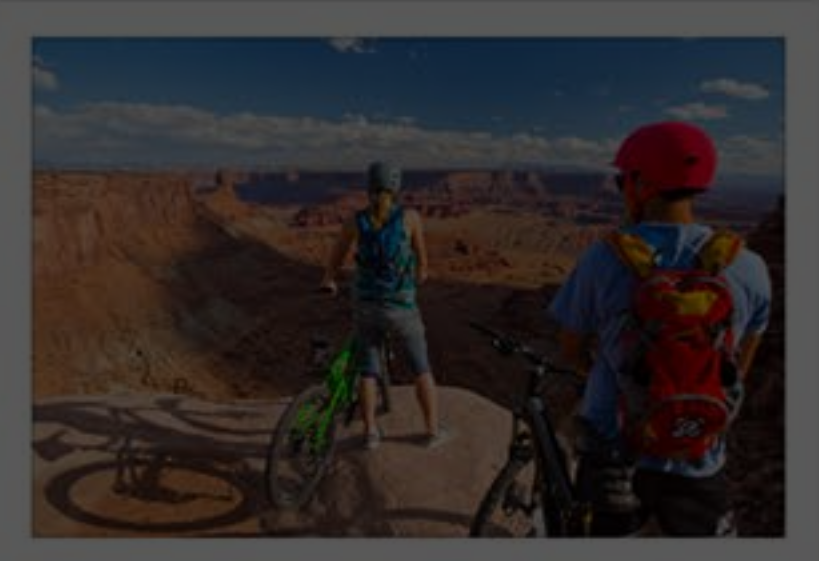

Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads

Devices

Shared

Tags

MTBwJordan1.jpg MTBwJordan2.jpg

2 items, 21.16 GB available

Mountain Biking with Jordan

Navigation icons: Back, Forward, Grid, List, Columns, Compare, View as Webpage, Settings, Share, Copy

Search

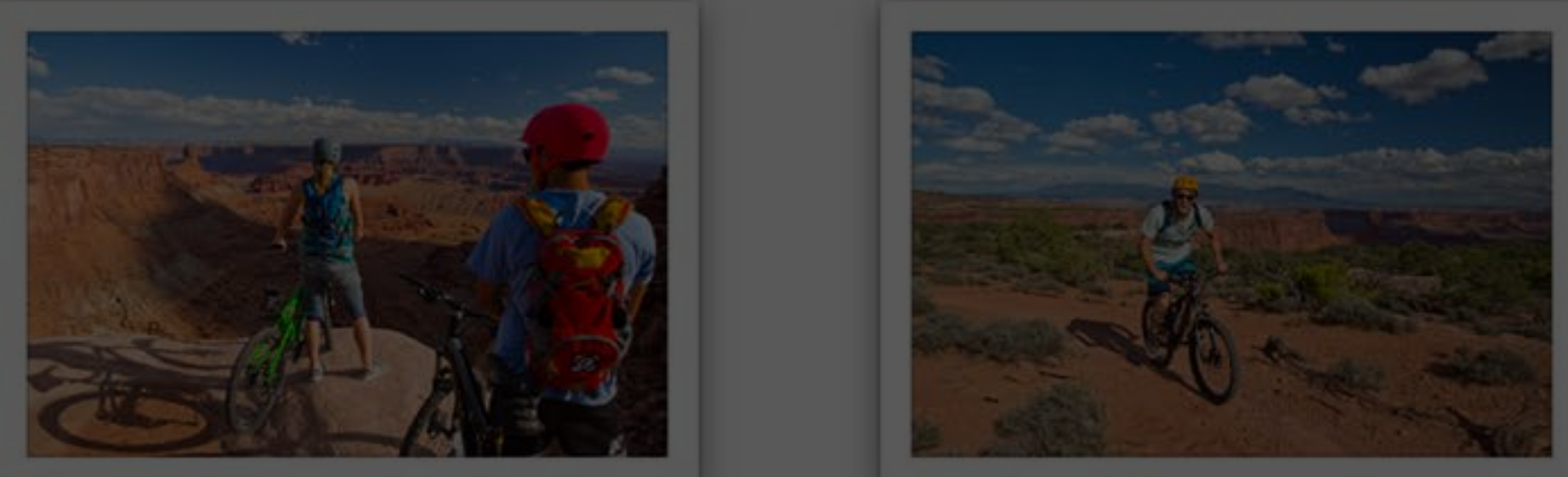
Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads

Devices

Shared

Tags



MTBwJordan1.jpg MTBwJordan2.jpg

2 items, 21.16 GB available



Mountain Biking with Jordan

Navigation: < > [Grid] [List] [Compare] [Web] [Grid] [Settings] [Share] [Link]

Search: Search


Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads


Devices

Shared

Tags



MTBwJordan1.jpg



MTBwJordan2.jpg

2 items, 21.16 GB available



Apple WWDC2014

News Schedule Sessions Labs Events Tickets More

WWDC14

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



WWDC2014

News Schedule Sessions Labs Events Tickets More



WWDC14

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



Dock

Show All Search

Size: Small Large

Magnification: Min Max

Position on screen: Left Bottom Right

Minimize windows using:

- 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

?



Dock

< > Show All

Size:

Magnification:

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

?

Search



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

?



Dock

< > Show All Search

Size:

Magnification:

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

?



Dock

< > Show All Search

Size:

Magnification:

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

?



Dock

Show All Search

Size: Small Large

Magnification: Min Max

Position on screen: Left Bottom Right

Minimize windows using:

- 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

?





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%

Show More...

Weather

7:43 PM ↗
Cupertino

☀️ 68°

Tomorrow

2 New





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

WWDC 14

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.



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	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)

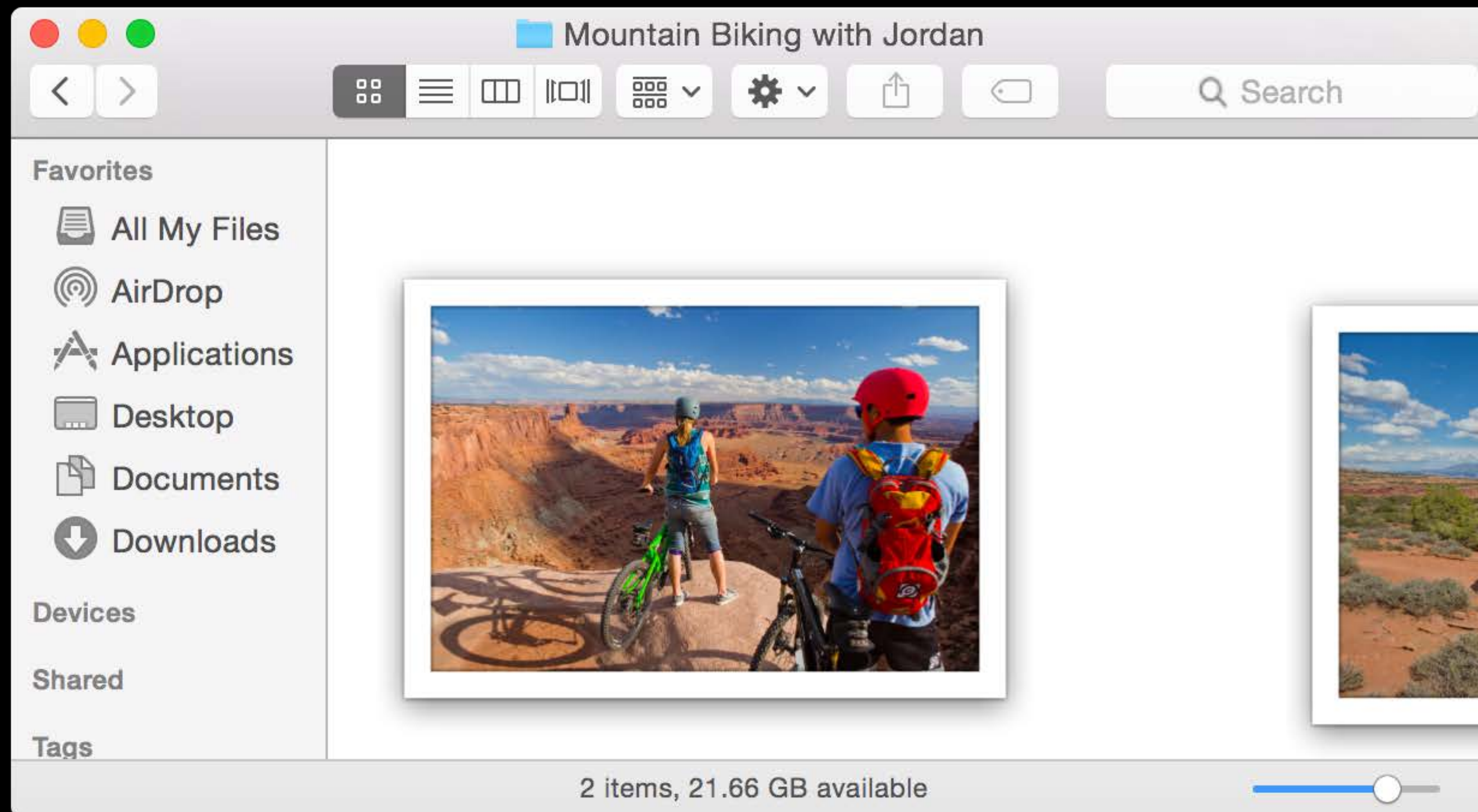
Add Invitees

Add Notes, Attachments, or URL

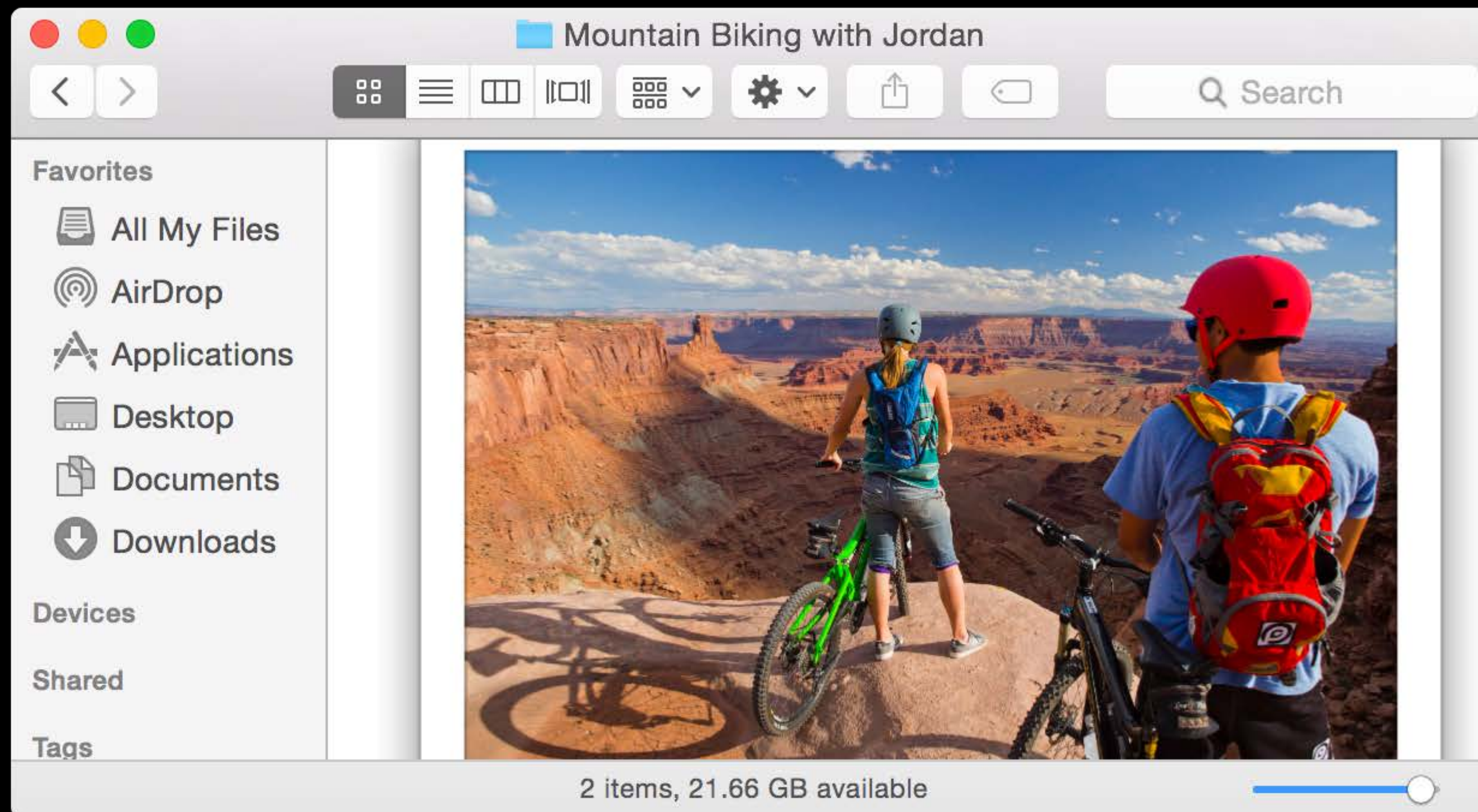
Jordan's Birthday



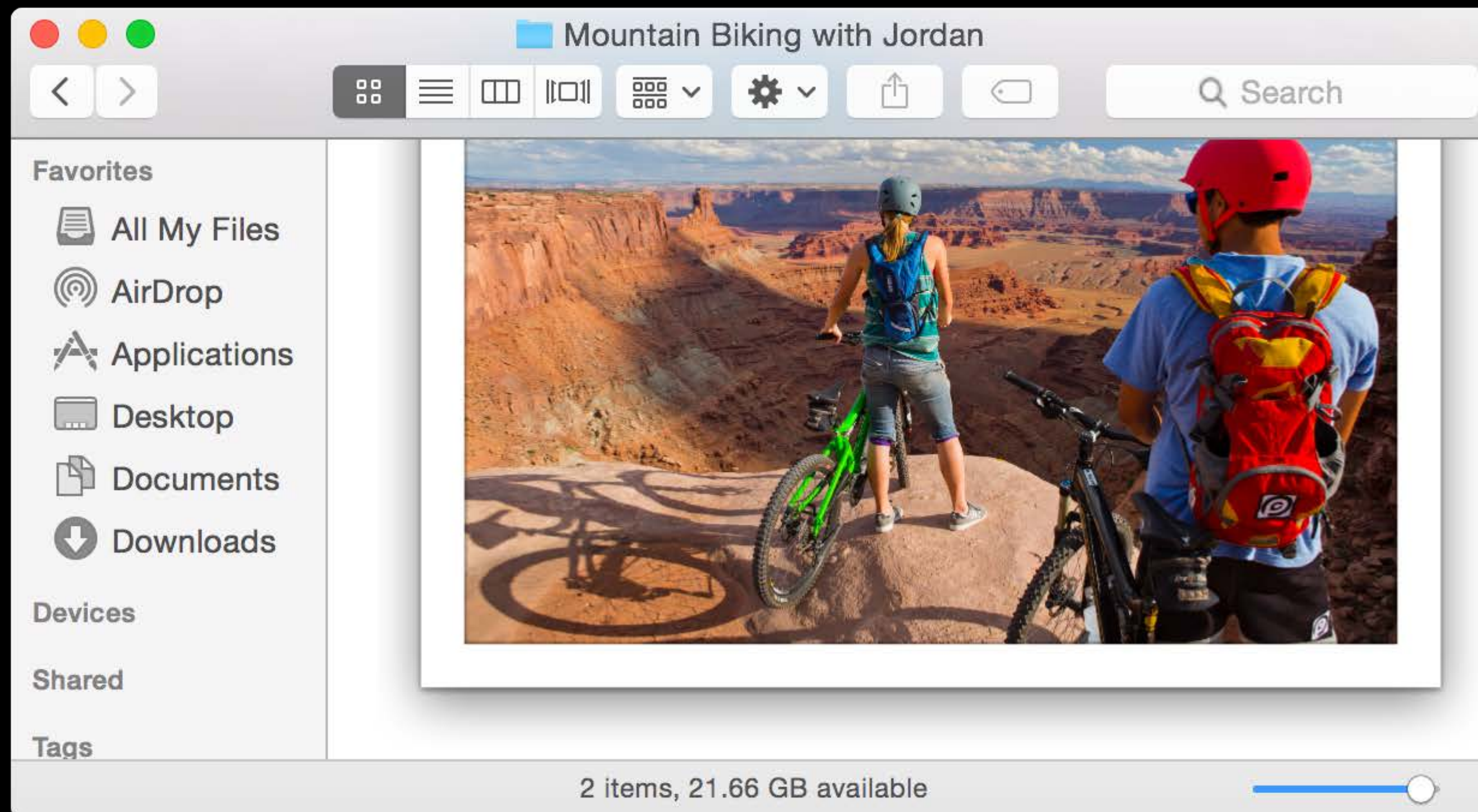
Translucent Toolbars



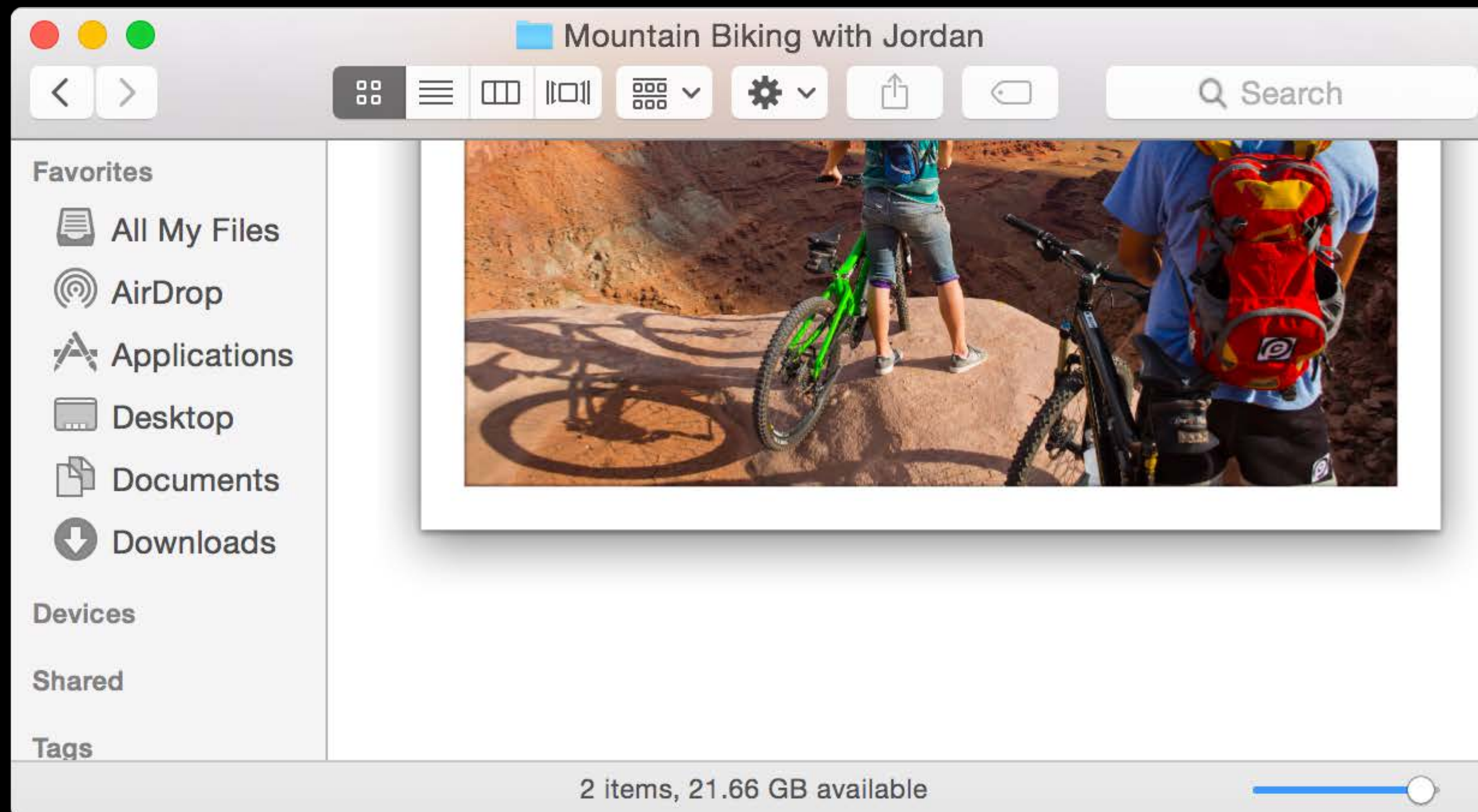
Translucent Toolbars



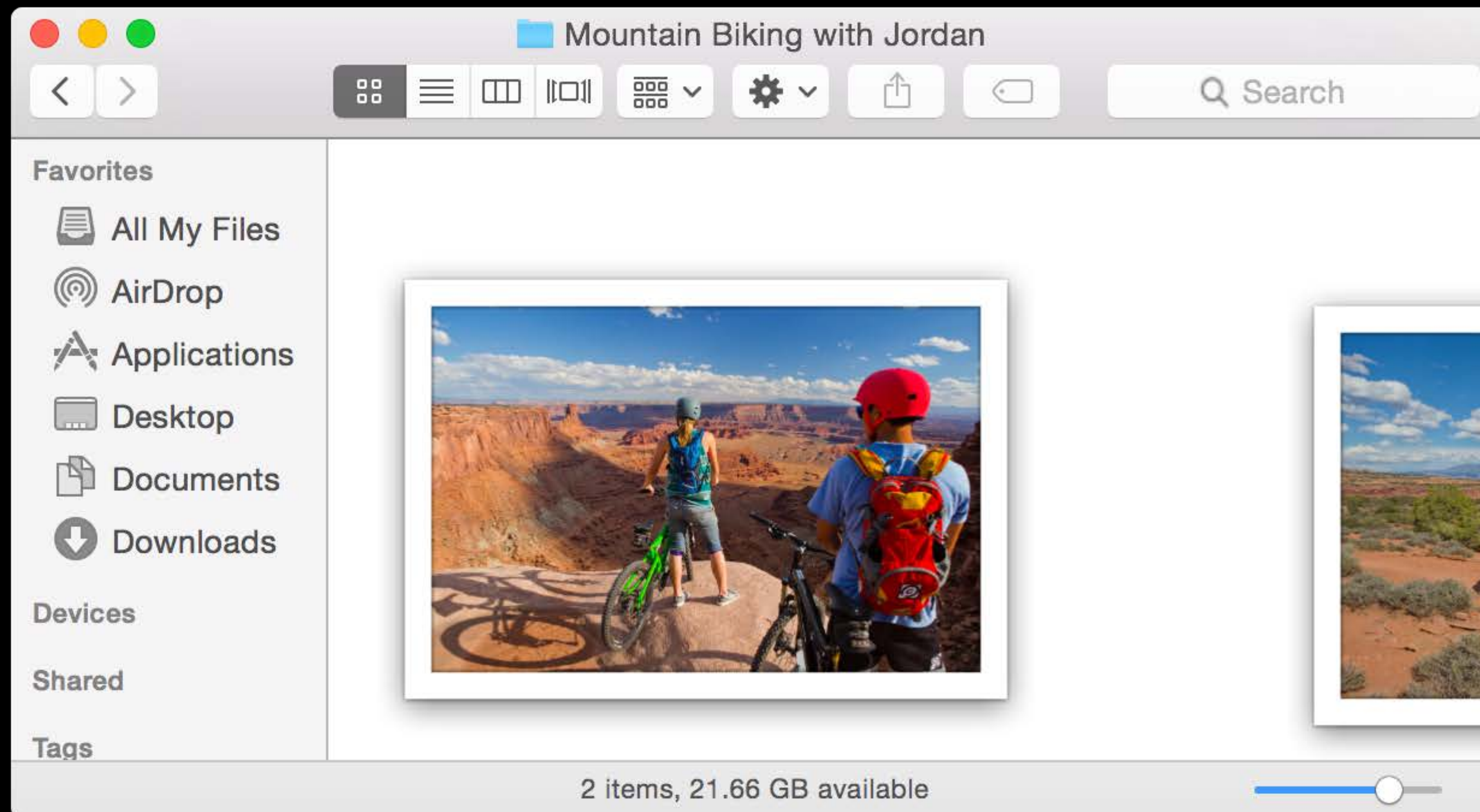
Translucent Toolbars



Translucent Toolbars

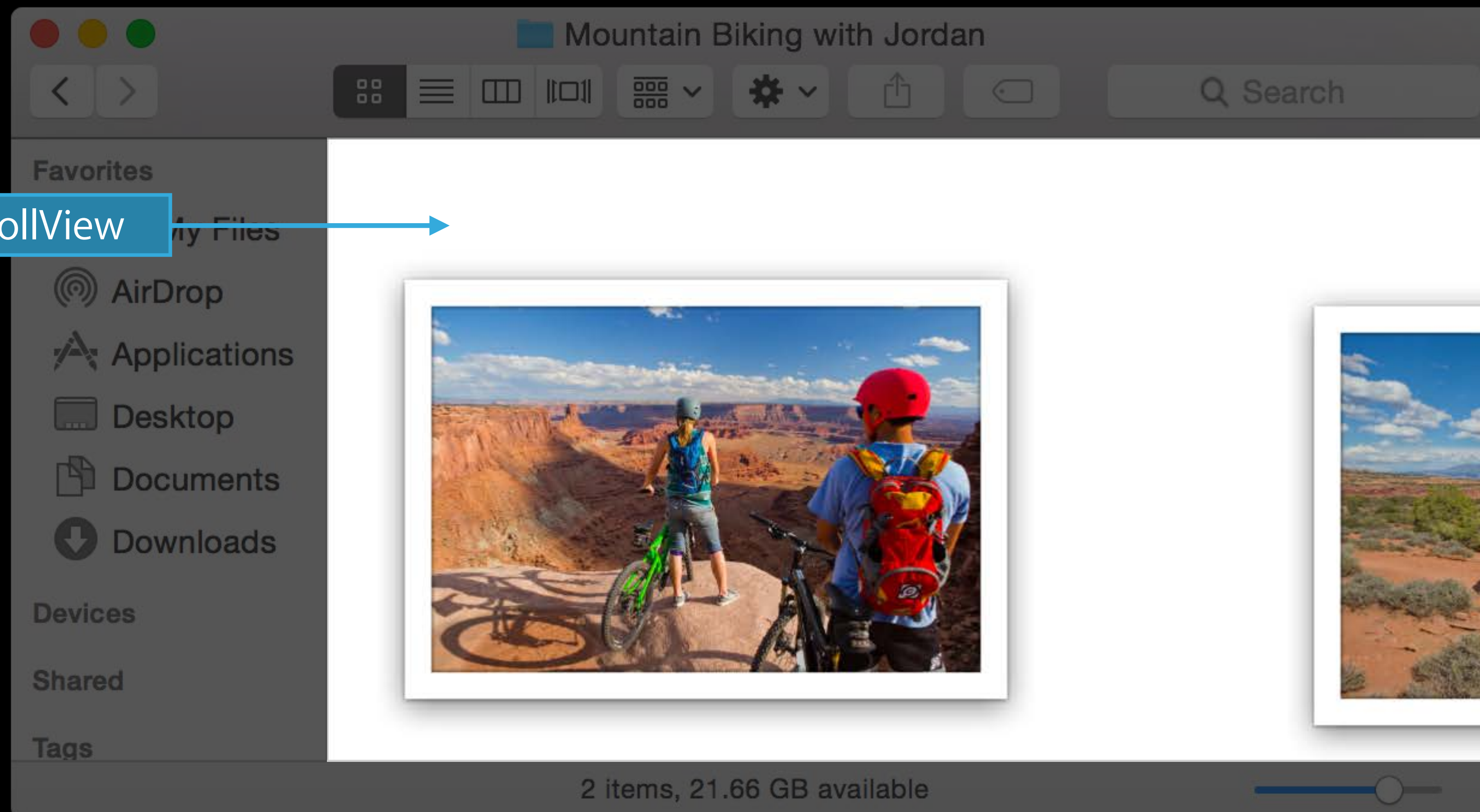


Translucent Toolbars



Translucent Toolbars

UIScrollView



Translucent Toolbars

Without scroll views



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`

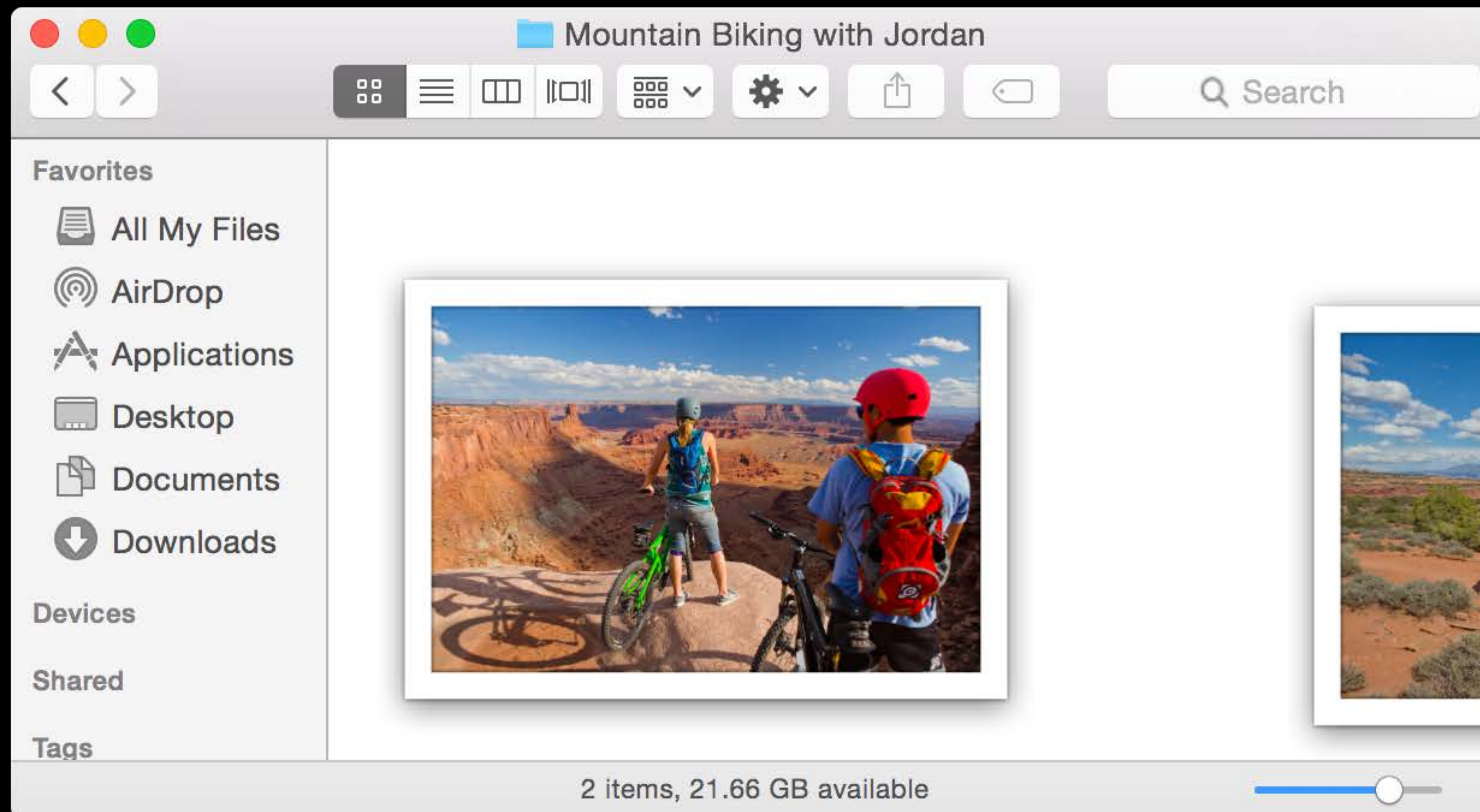
```
window.styleMask |= NSFullSizeContentViewWindowMask;
```

Example: translucent toolbars and titlebars that show and hide

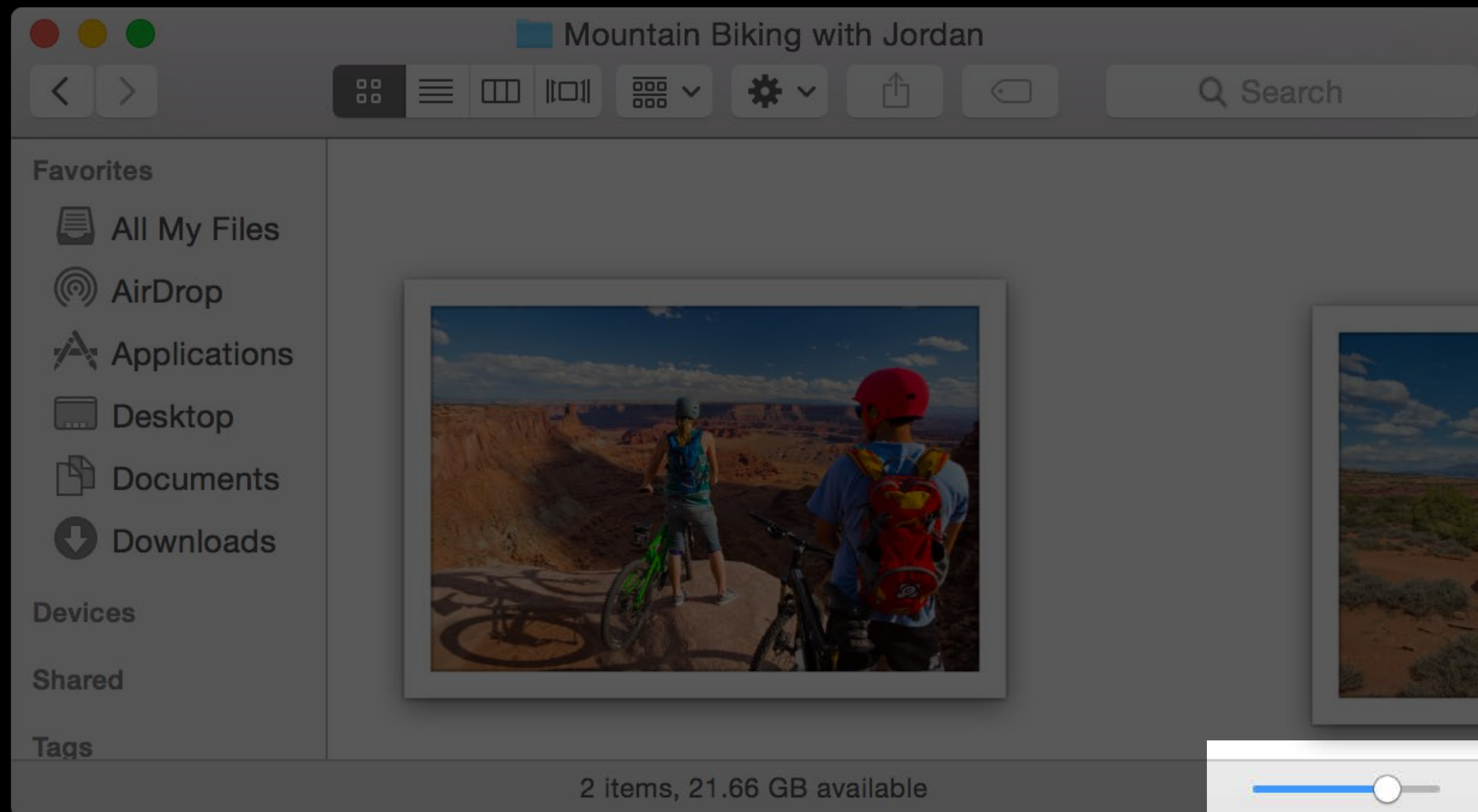
Related Session

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

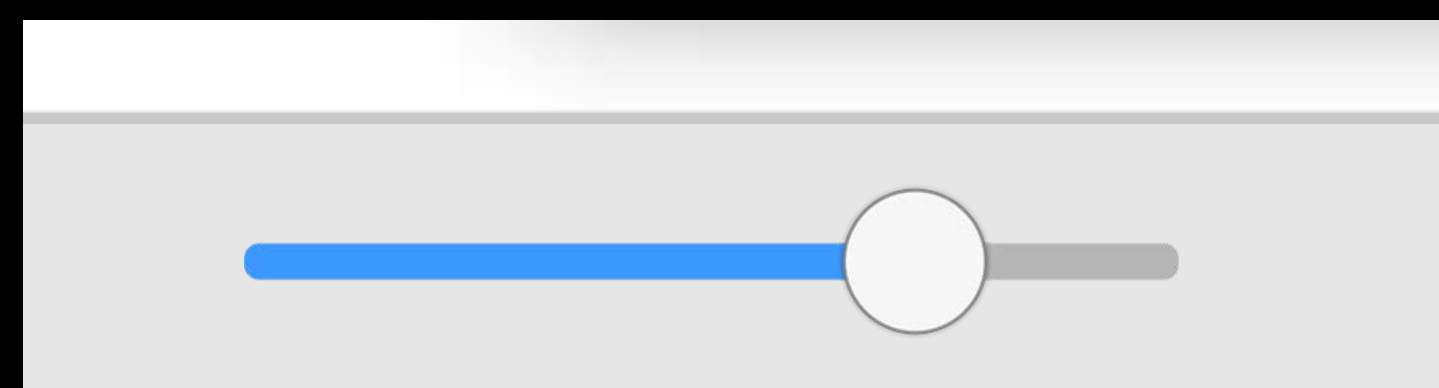
Tinted Sliders



Tinted Sliders



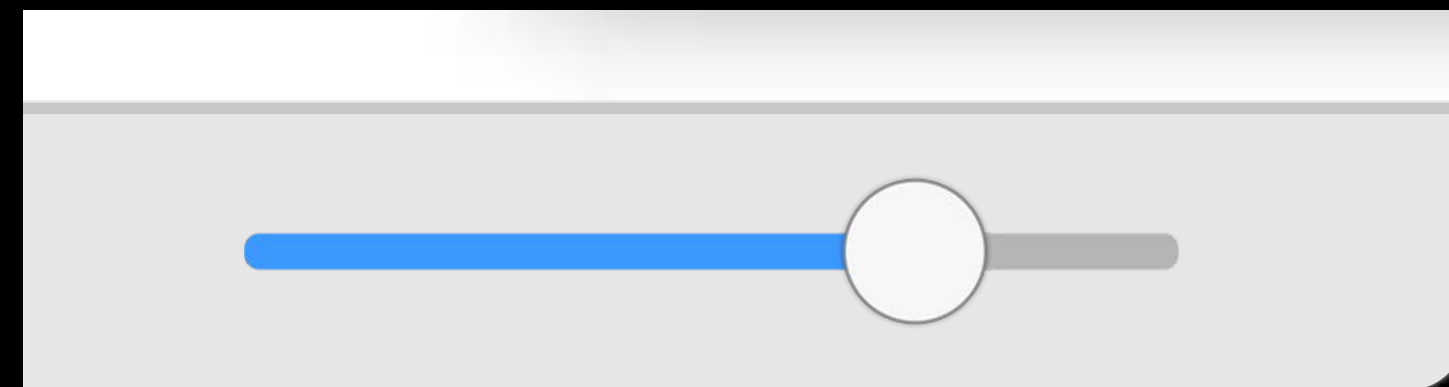
Tinted Sliders



Tinted Sliders



Non-directional sliders only

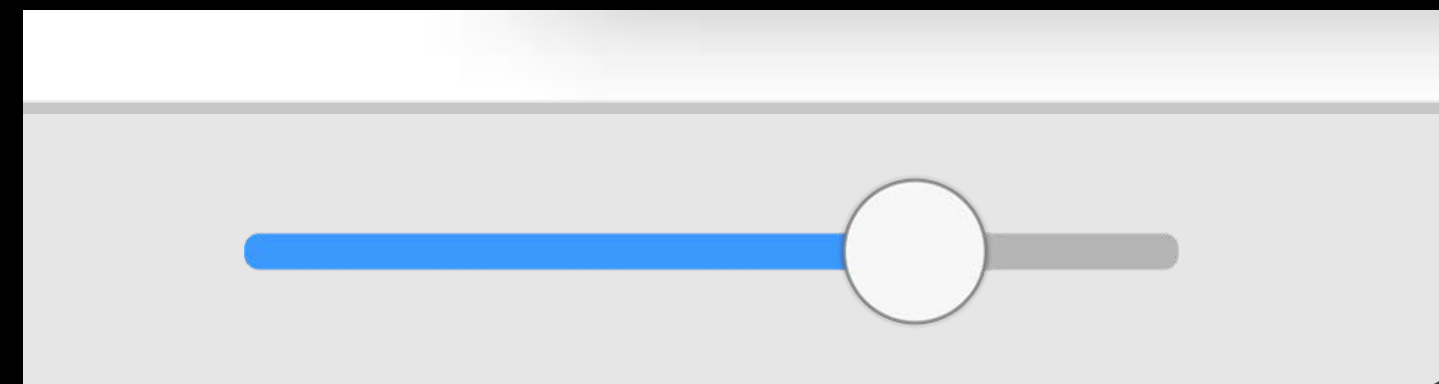


Tinted Sliders



Non-directional sliders only

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



Mountain Biking with Jordan

Navigation: < > [Grid] [List] [Compare] [Web] [Grid] [Settings] [Share] [Link]

Search: Search


Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads


Devices

Shared

Tags



MTBwJordan1.jpg



MTBwJordan2.jpg

2 items, 21.12 GB available



Mountain Biking with Jordan

Navigation: < > [Grid] [List] [Compare] [Web] [Grid] [Settings] [Share] [Back]

Search: Search

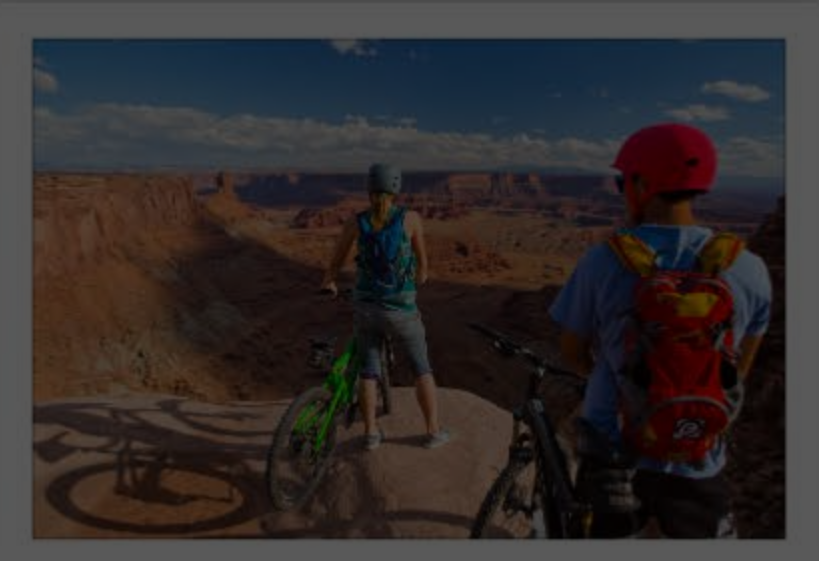
Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads

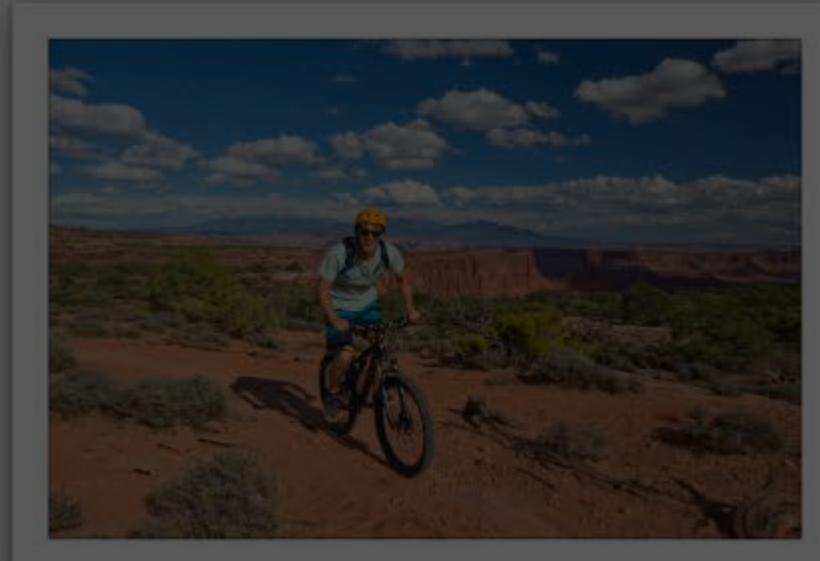
Devices

Shared

Tags



MTBwJordan1.jpg

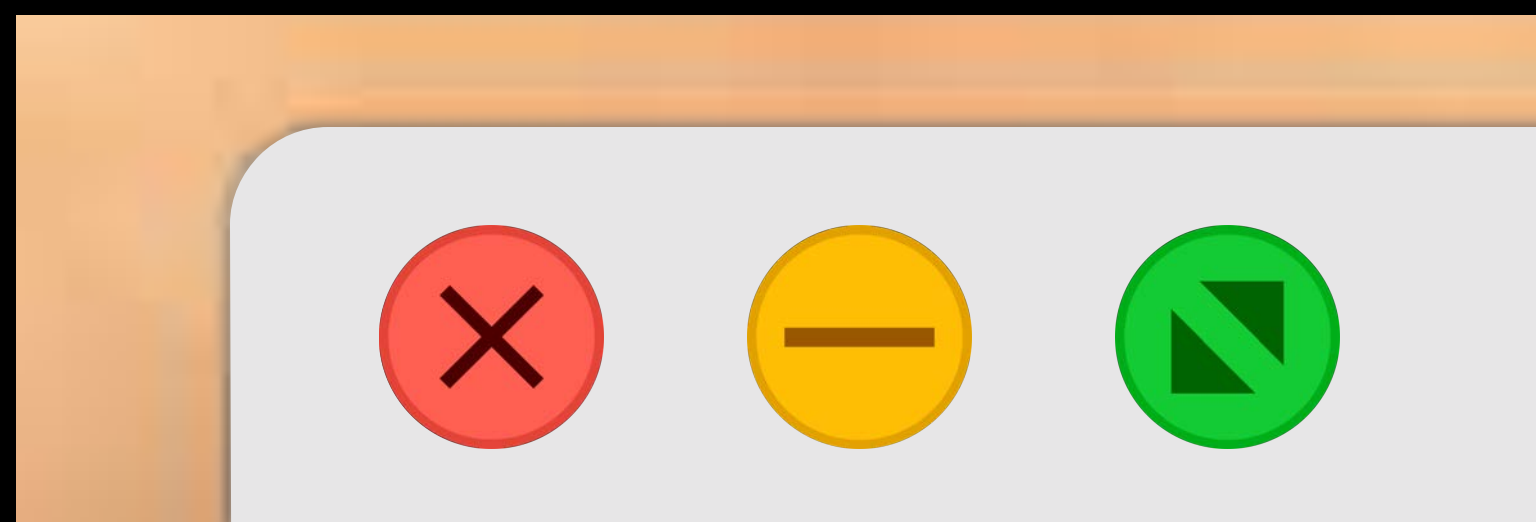


MTBwJordan2.jpg

2 items, 21.12 GB available

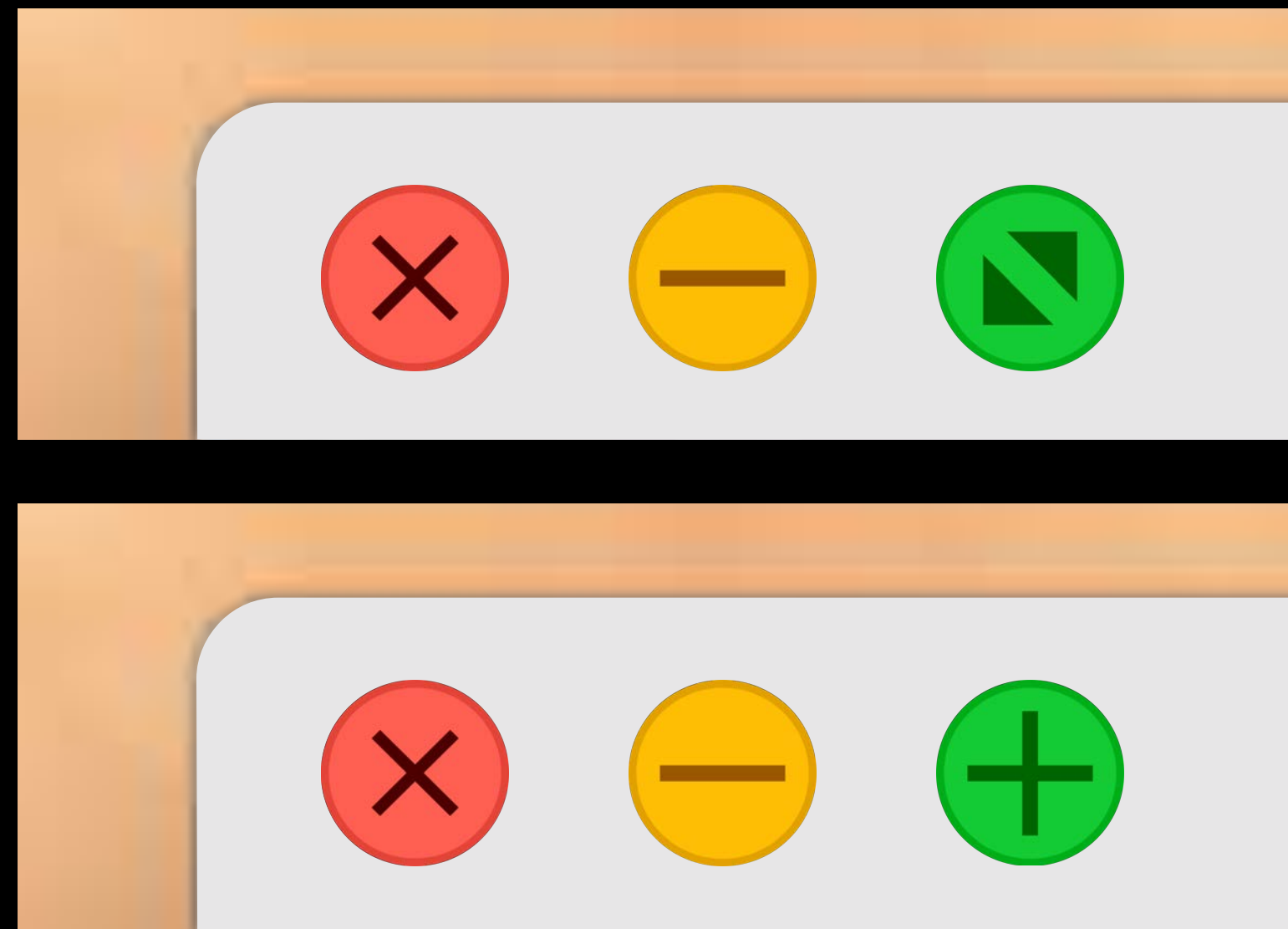


Fullscreen Button



Fullscreen Button

Press Option to zoom



Mountain Biking with Jordan

Navigation: < > [Grid] [List] [Compare] [Web] [Grid] [Settings] [Share] [Link]

Search: Search


Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads


Devices

Shared

Tags



MTBwJordan1.jpg



MTBwJordan2.jpg

2 items, 21.12 GB available



Mountain Biking with Jordan

< >

Grid View Columns View Compare View Web View Settings Share Back

Search

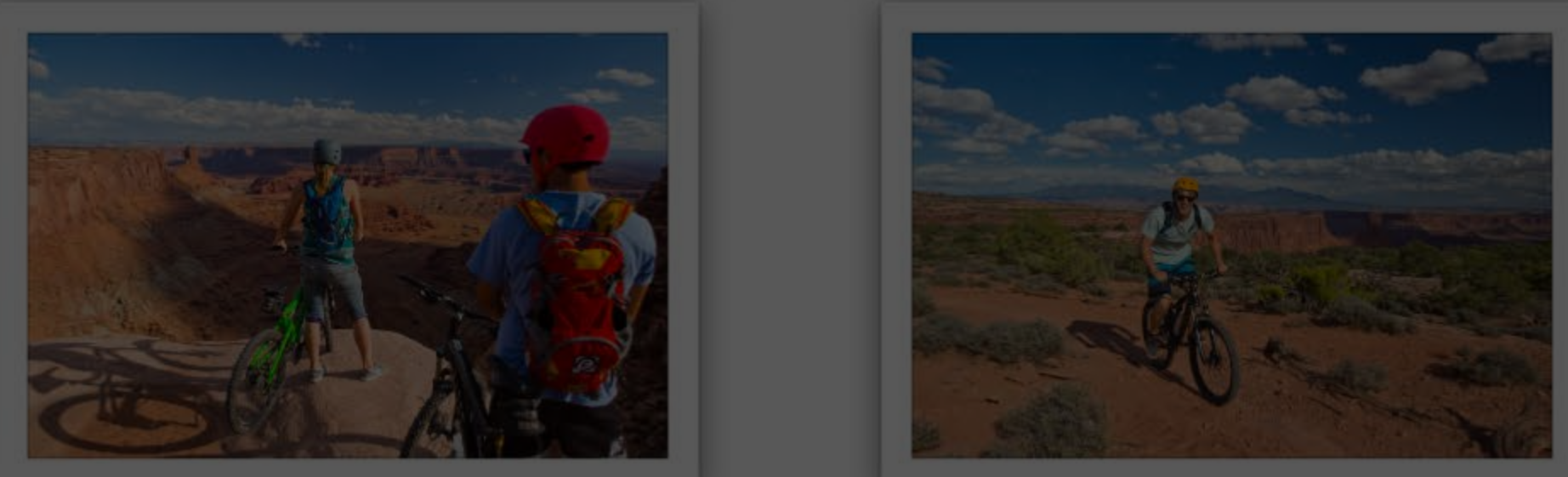
Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads

Devices

Shared

Tags

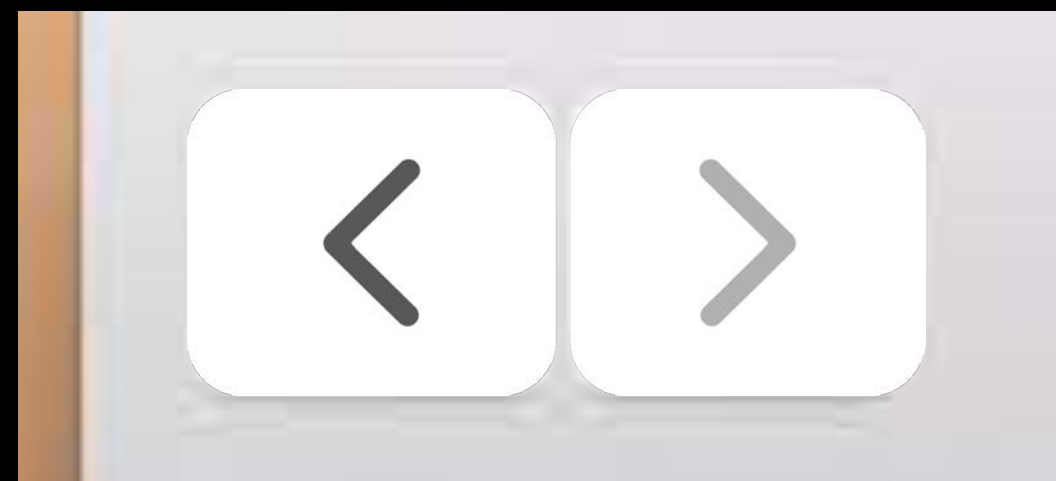


MTBwJordan1.jpg MTBwJordan2.jpg

2 items, 21.12 GB available



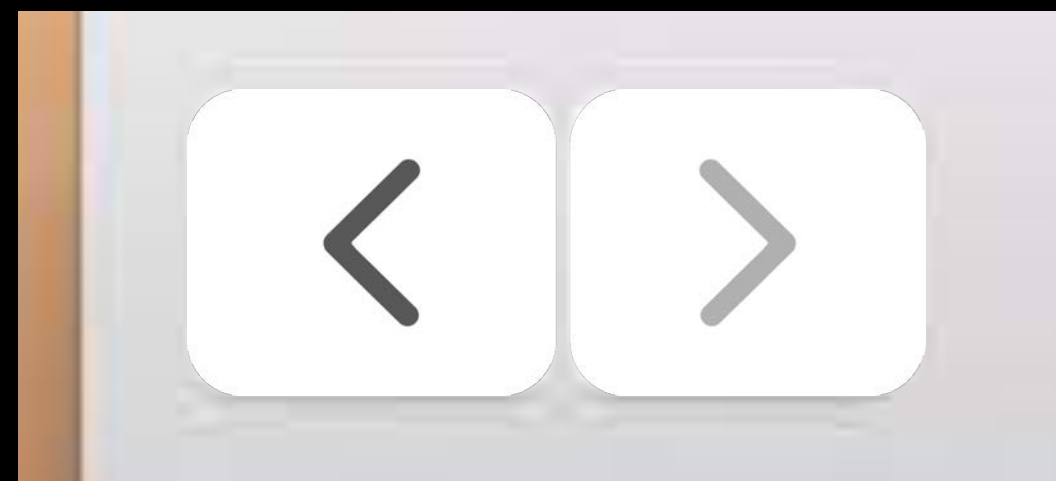
Separated Segmented Control



Separated Segmented Control



Navigation, incremental steps

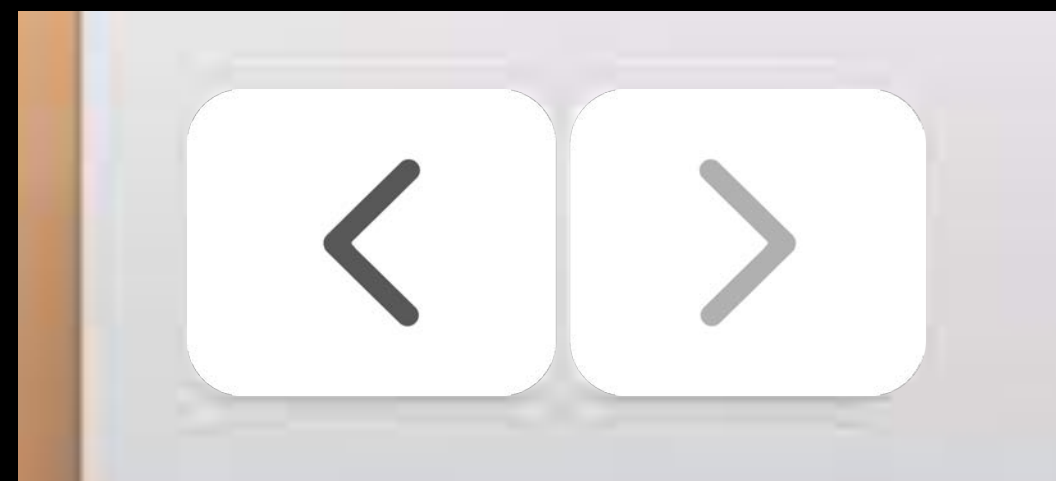


Separated Segmented Control



Navigation, incremental steps

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



Mountain Biking with Jordan

Search


Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads

Devices

Shared

Tags



MTBwJordan1.jpg MTBwJordan2.jpg

2 items, 21.12 GB available



Documents

Search

Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents**
- Downloads

Devices

1 item, 21.09 GB available

Mountain Biking with Jordan

MTBwJordan1.jpg

MTBwJordan2.jpg

2 items, 21.09 GB available



Documents

Search

Favorites

- All My Files

Mountain Biking with Jordan

Search

Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads

Devices

Shared

Tags

MTBwJordan1.jpg

MTBwJordan2.jpg

2 items, 21.08 GB available

Documents

Search

Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents**
- Downloads

Devices

1 item, 21.09 GB available

Mountain Biking with Jordan

MTBwJordan1.jpg

MTBwJordan2.jpg

2 items, 21.09 GB available



Documents

Navigation: Back, Forward, Grid, List, Compare, Split, Columns, Columns with Preview, Settings, Share, Copy, Search

Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents**
- Downloads

Devices

1 item, 21.09 GB available

Navigation: Back, Forward, Grid, List, Compare, Split, Columns, Columns with Preview, Settings, Share, Copy, Search

Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads

Devices

Shared

Tags

MTBwJordan1.jpg

MTBwJordan2.jpg

2 items, 21.09 GB available



Documents

Navigation: Back, Forward, Grid, List, Columns, Compare, View, Settings, Share, Copy, Search

Mountain Biking with Jordan

Navigation: Back, Forward, Grid, List, Columns, Compare, View, Settings, Share, Copy, Search

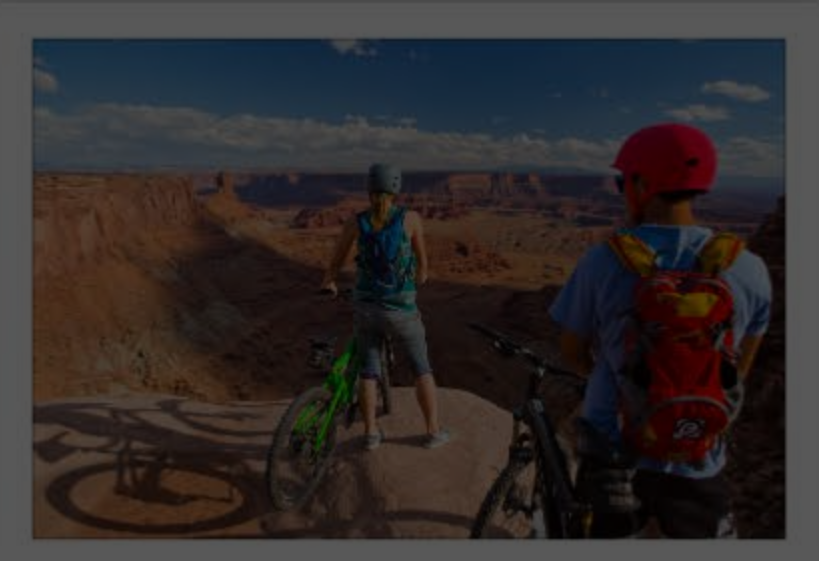
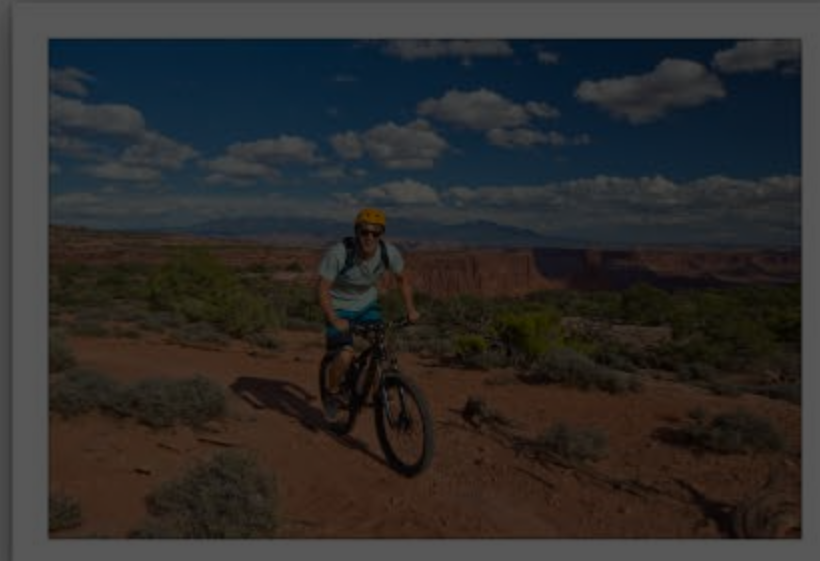
Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads

Devices

Shared

Tags

MTBwJordan1.jpg MTBwJordan2.jpg

2 items, 21.08 GB available



Documents

Navigation: Back, Forward, Grid, List, Columns, Compare, View, Settings, Share, Pin, Search

Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents**
- Downloads

Devices

1 item, 21.09 GB available

Navigation: Back, Forward, Grid, List, Columns, Compare, View, Settings, Share, Pin, Search

Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads

Devices

Shared

Tags

MTBwJordan1.jpg

MTBwJordan2.jpg

2 items, 21.09 GB available



Documents

Mountain Biking with Jordan

1 item, 21.09 GB available

MTBwJordan1.jpg MTBwJordan2.jpg

2 items, 21.09 GB available

Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents**
- Downloads

Devices

Shared

Tags



Documents

Search

Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents**
- Downloads

Devices

1 item, 21.09 GB available

Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads

Devices

Shared

Tags

MTBwJordan1.jpg

MTBwJordan2.jpg

2 items, 21.09 GB available



Documents

Mountain Biking with Jordan

1 item, 21.09 GB available

MTBwJordan1.jpg MTBwJordan2.jpg

2 items, 21.09 GB available

Favorites

- All My Files
- AirDrop
- Applications
- Desktop
- Documents**
- Downloads

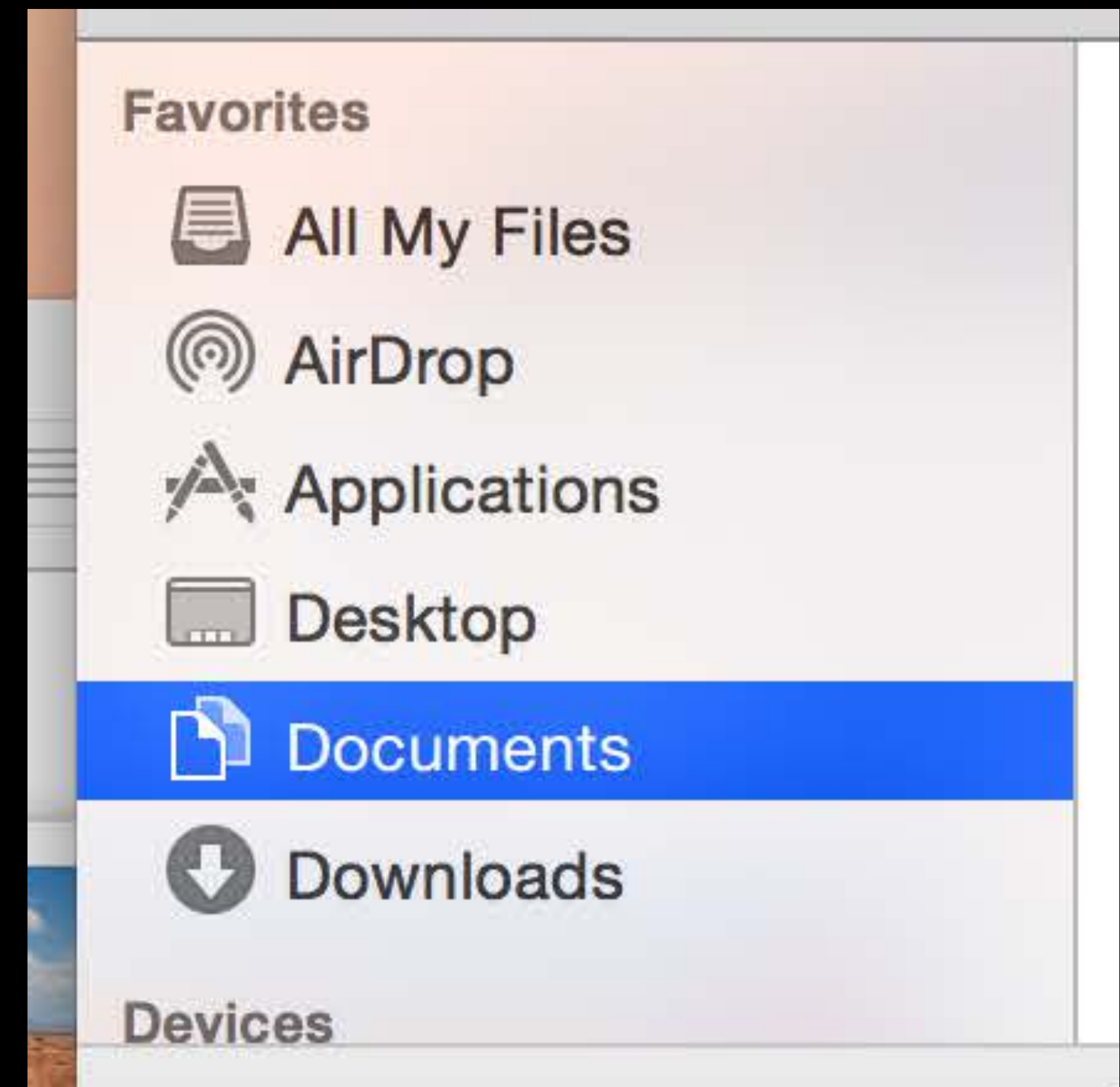
Devices

Shared

Tags

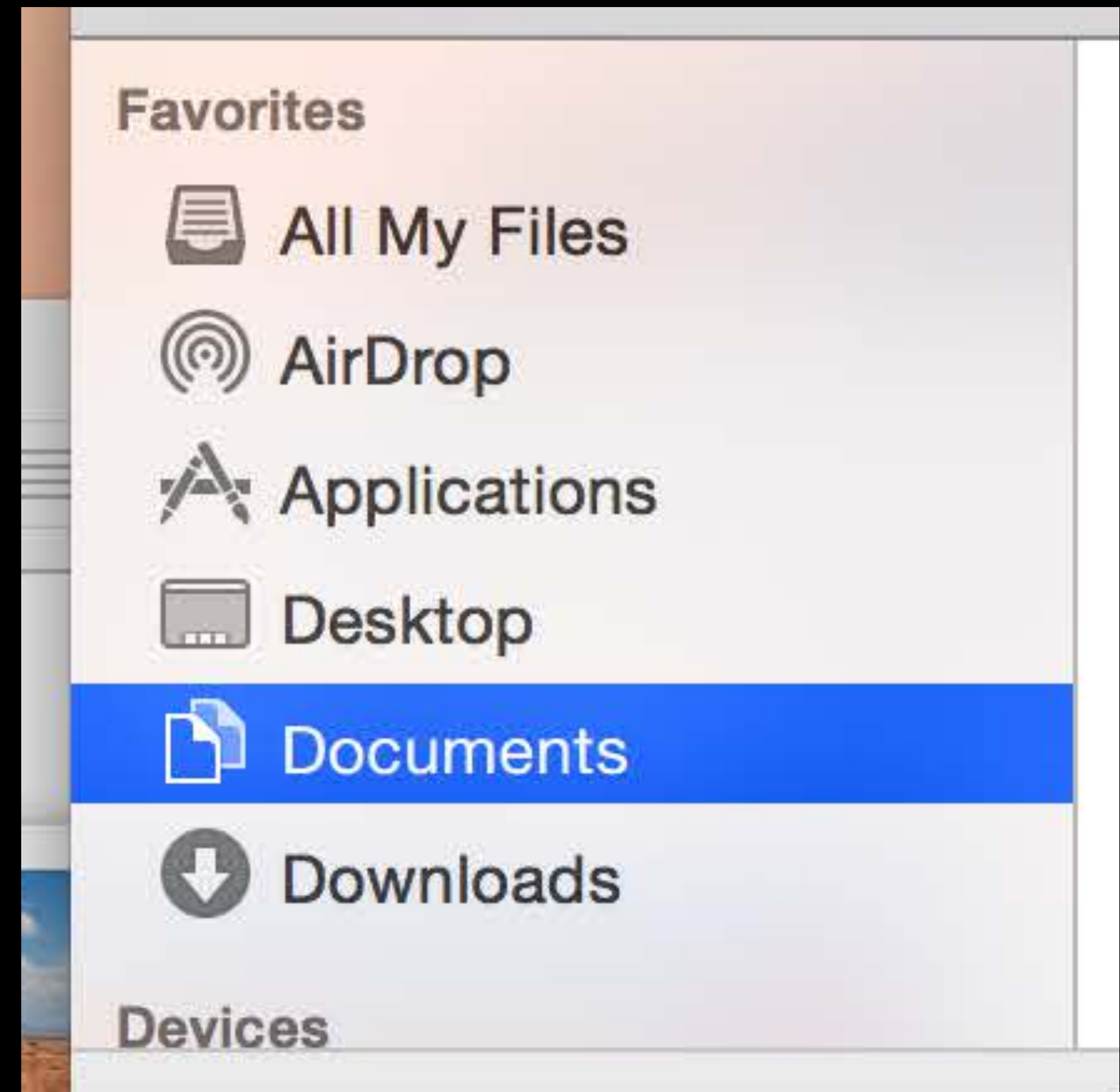


Translucent Sidebars



Translucent Sidebars

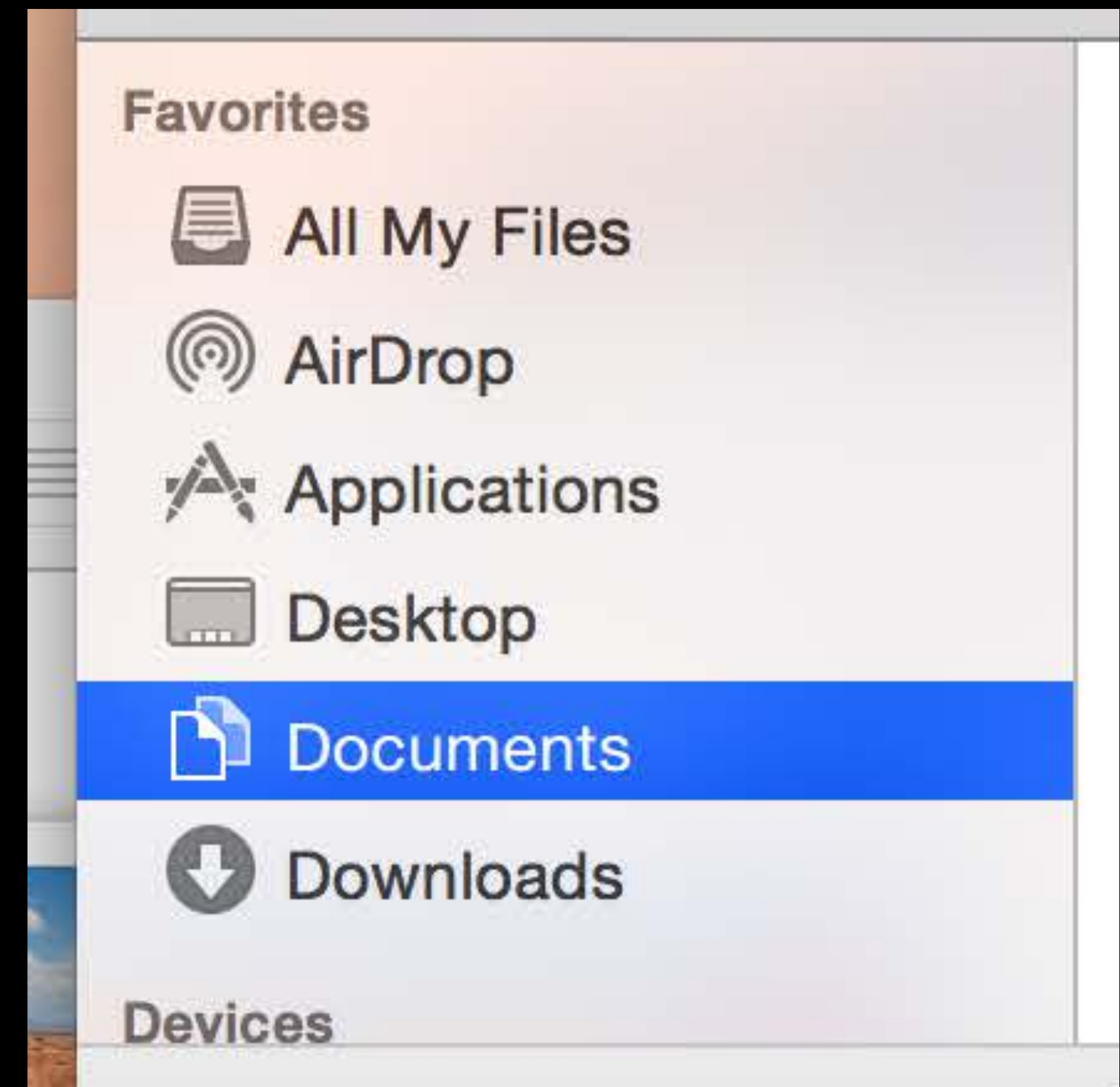
For free, if...



Translucent Sidebars

For free, if...

NSOutlineView or NSTableView

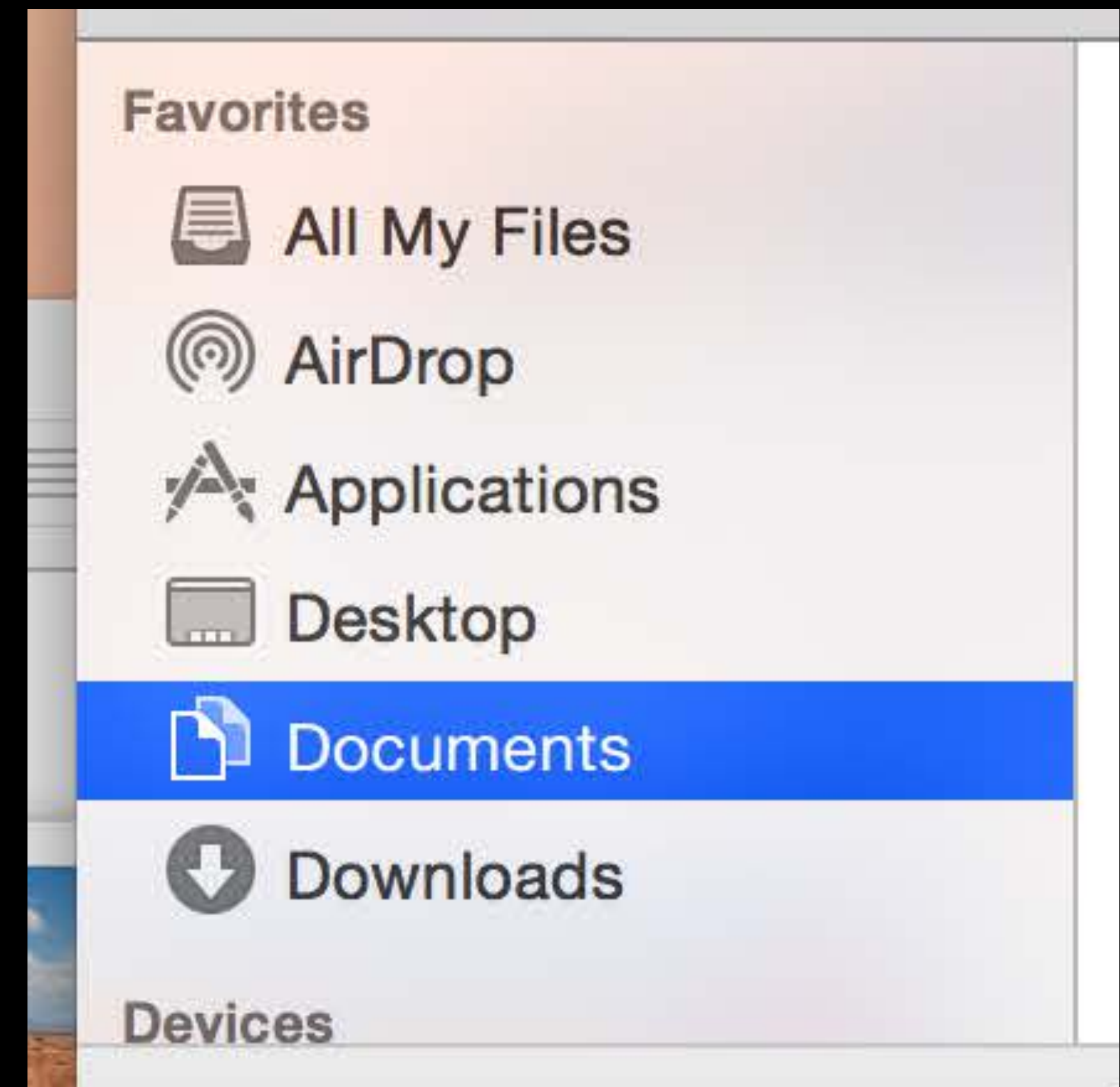


Translucent Sidebars

For free, if...

NSOutlineView or NSTableView

Highlight style set to Source List

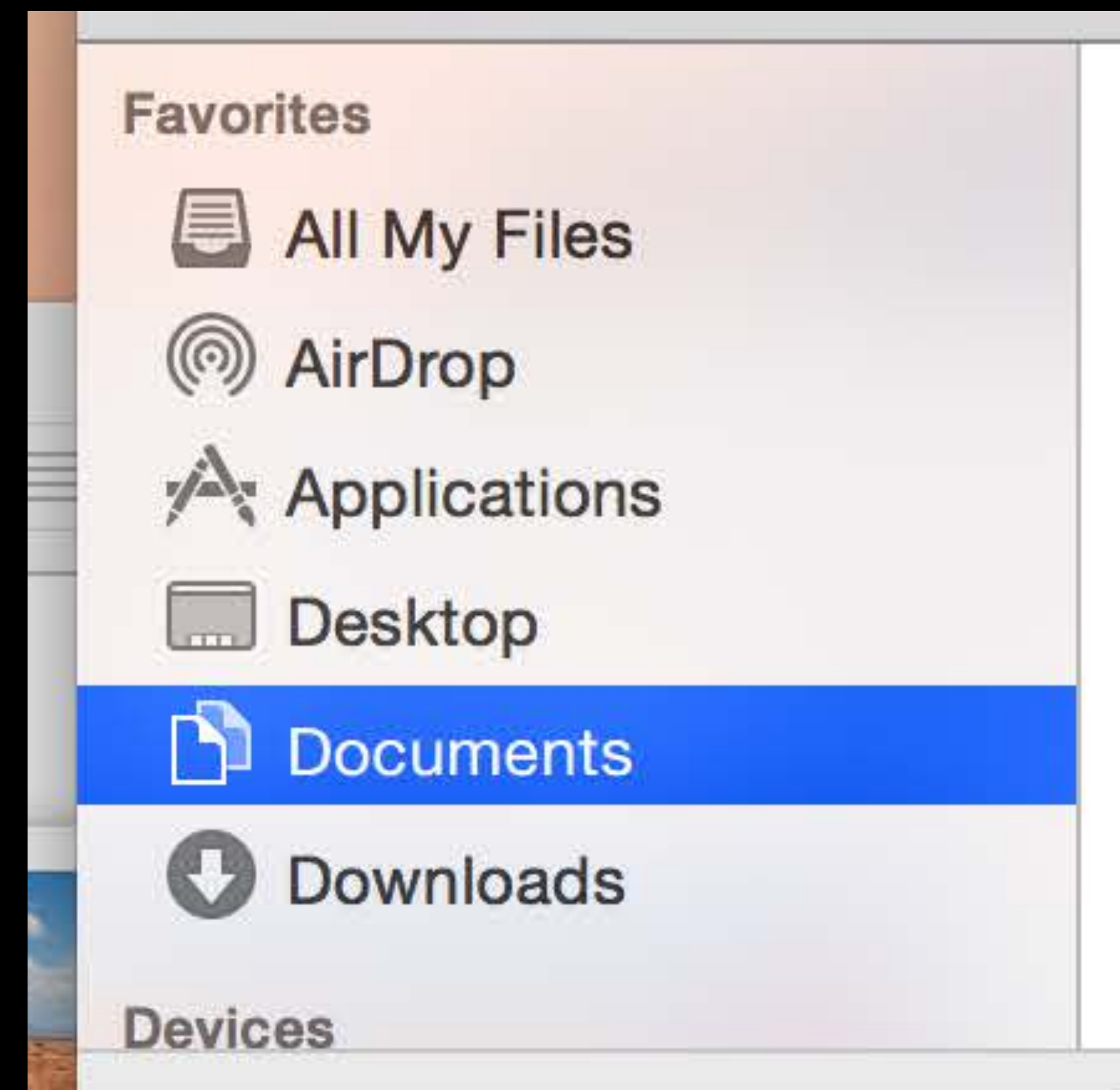
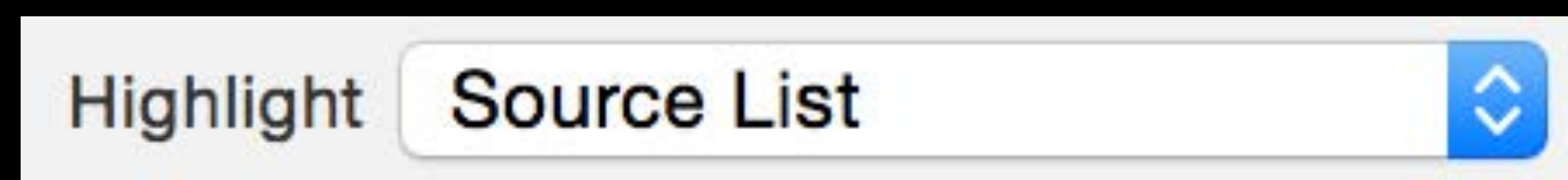


Translucent Sidebars

For free, if...

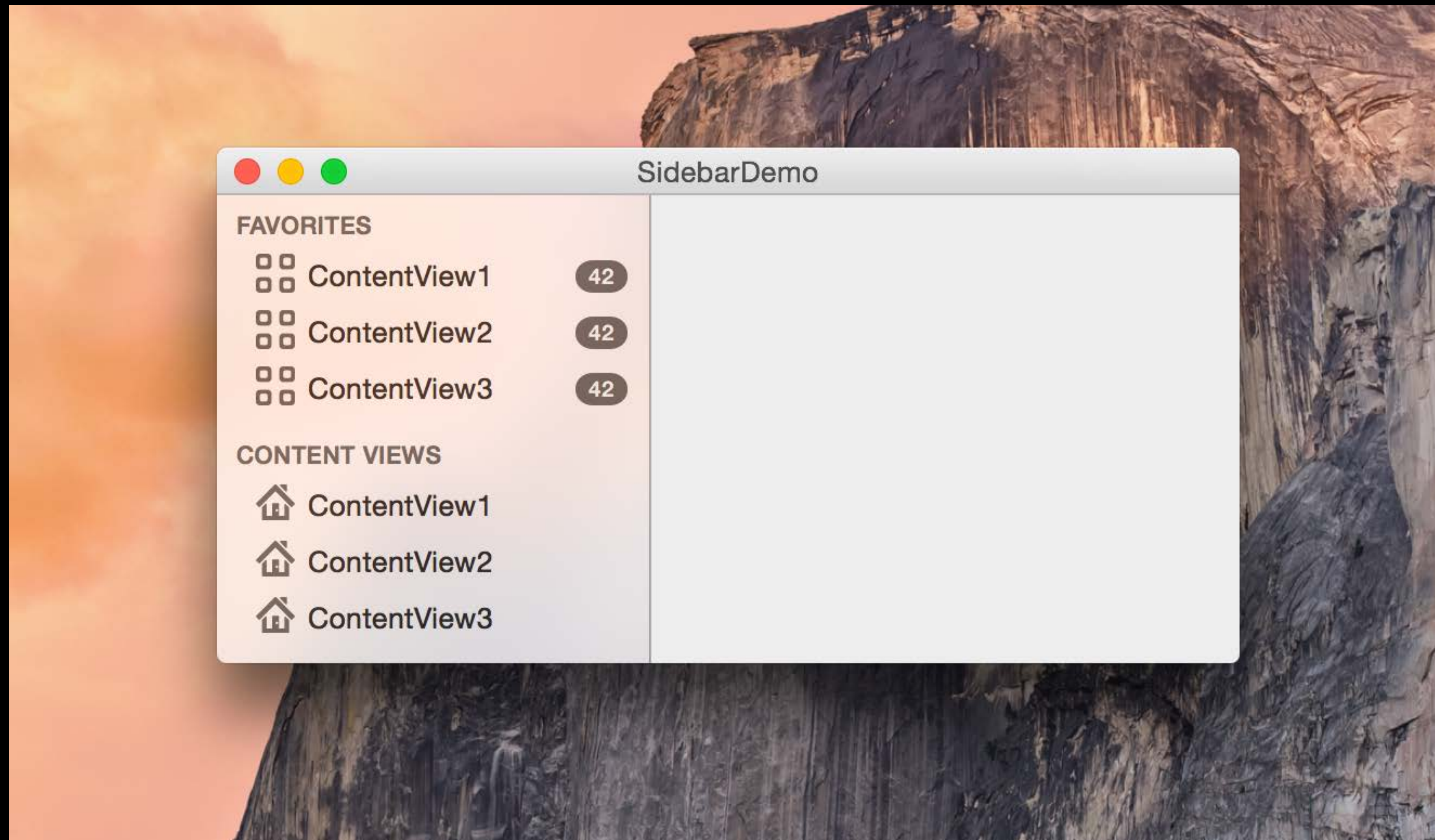
NSOutlineView or NSTableView

Highlight style set to Source List



Example: SidebarDemo

From <http://developer.apple.com>



Apple WWDC2014

News Schedule Sessions Labs Events Tickets More

WWDC14

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



WWDC2014

News Schedule Sessions Labs Events Tickets More

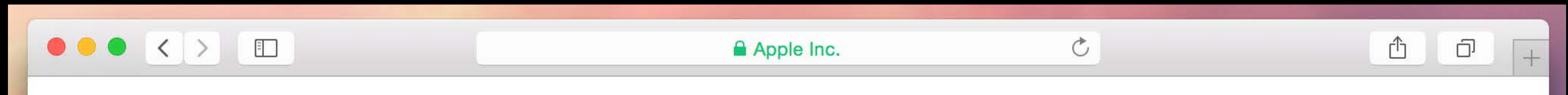


WWDC14

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



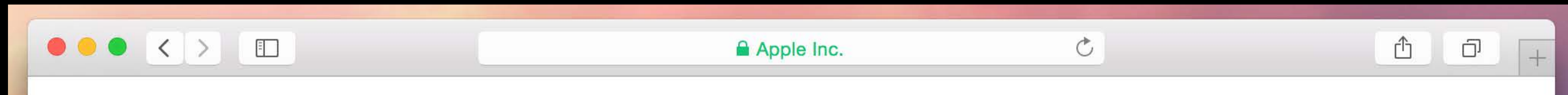
Hidden Window Titles



Hidden Window Titles



New NSWindow property: titleVisibility

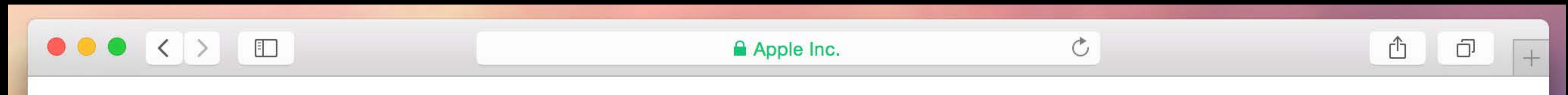


Hidden Window Titles

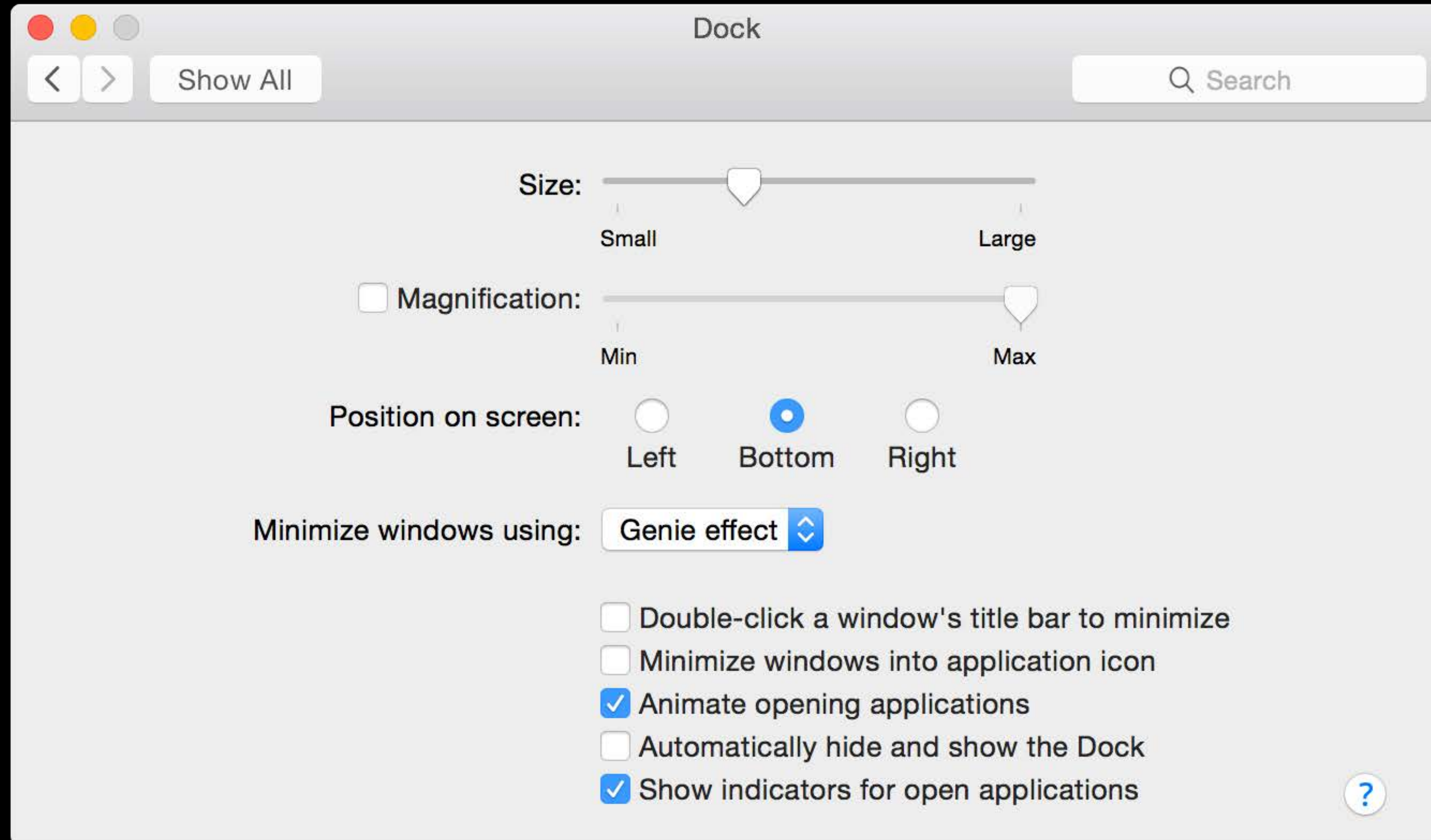


New NSWindow property: `titleVisibility`

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

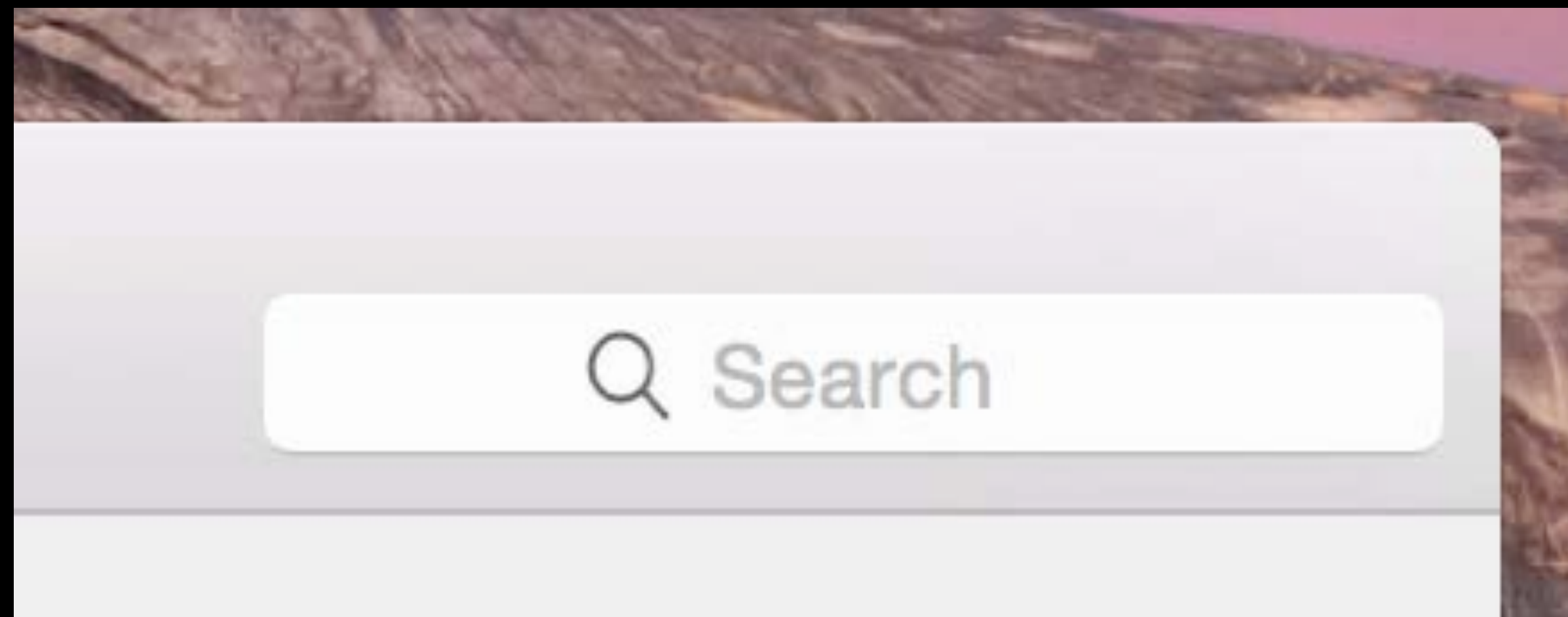


Animated Controls



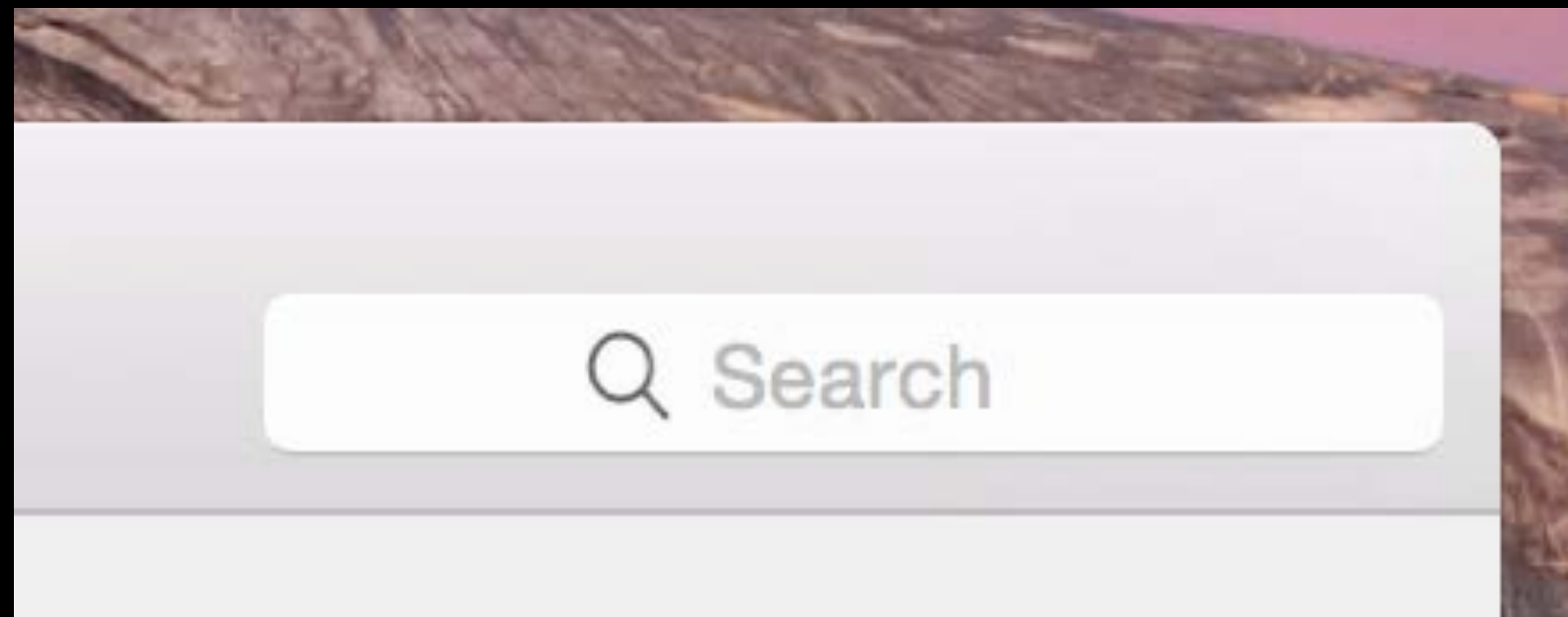
Animated Controls

Search field



Animated Controls

Search field



Animated Controls

Radio buttons

Position on screen:



Left



Bottom



Right

Animated Controls

Radio buttons

Position on screen:



Left



Bottom



Right

Animated Controls

Checkboxes

- 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

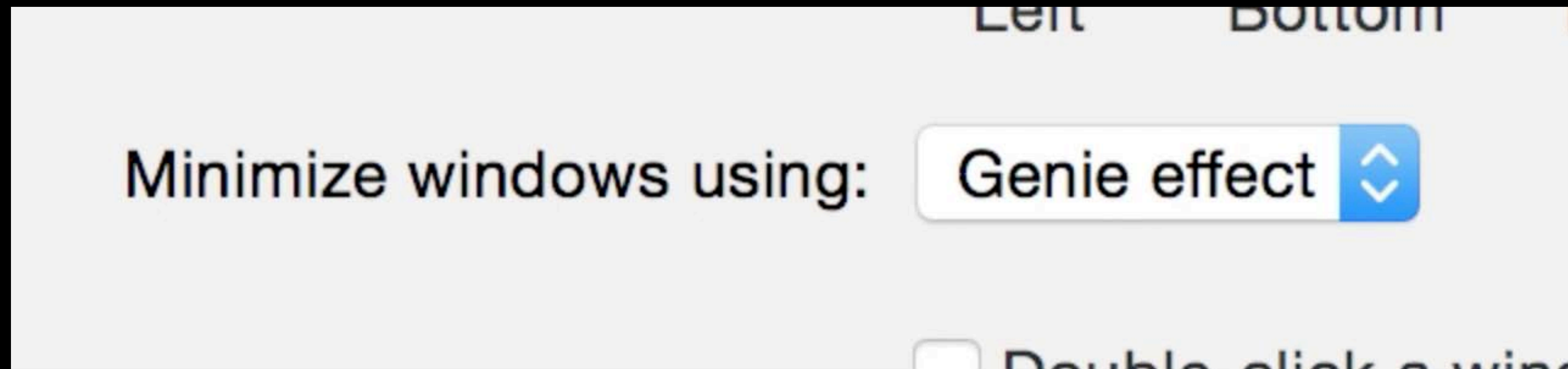
Animated Controls

Checkboxes

- 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

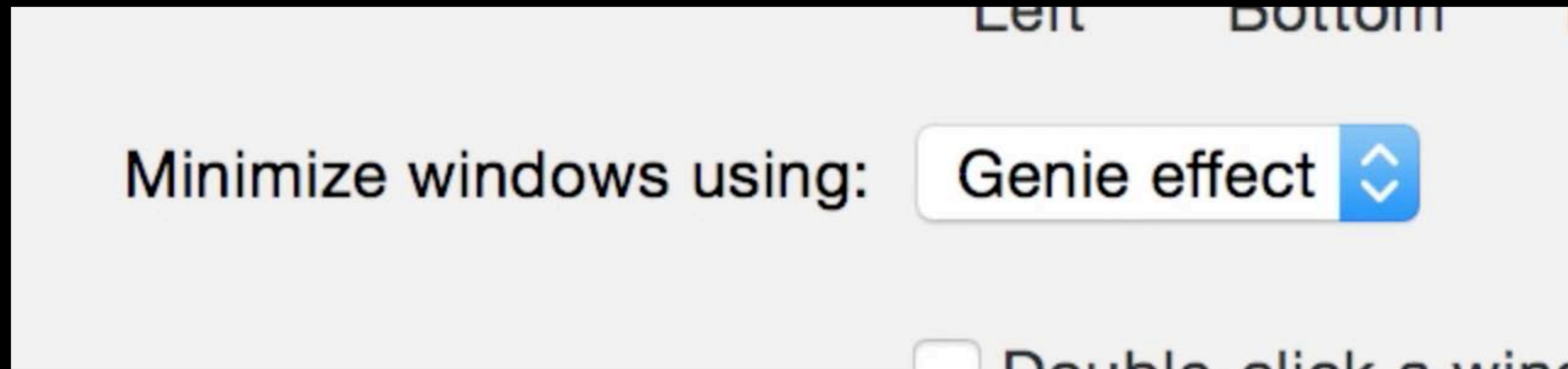
Animated Controls

Popup buttons



Animated Controls

Popup buttons





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%

Show More...

Weather

7:43 PM ↗
Cupertino

☀️ 68°

Tomorrow

2 New





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%

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%

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%



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



Visual Effect View

NSVisualEffectView



Vibrant Dark appearance



Visual Effect View

NSVisualEffectView



Vibrant Dark appearance

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



Visual Effect View

NSVisualEffectView



Vibrant Dark appearance

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



Visual Effect View

NSVisualEffectView



Vibrant Dark appearance

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





Apple Inc.

WWDC 14

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.





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

WWDC 14

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.

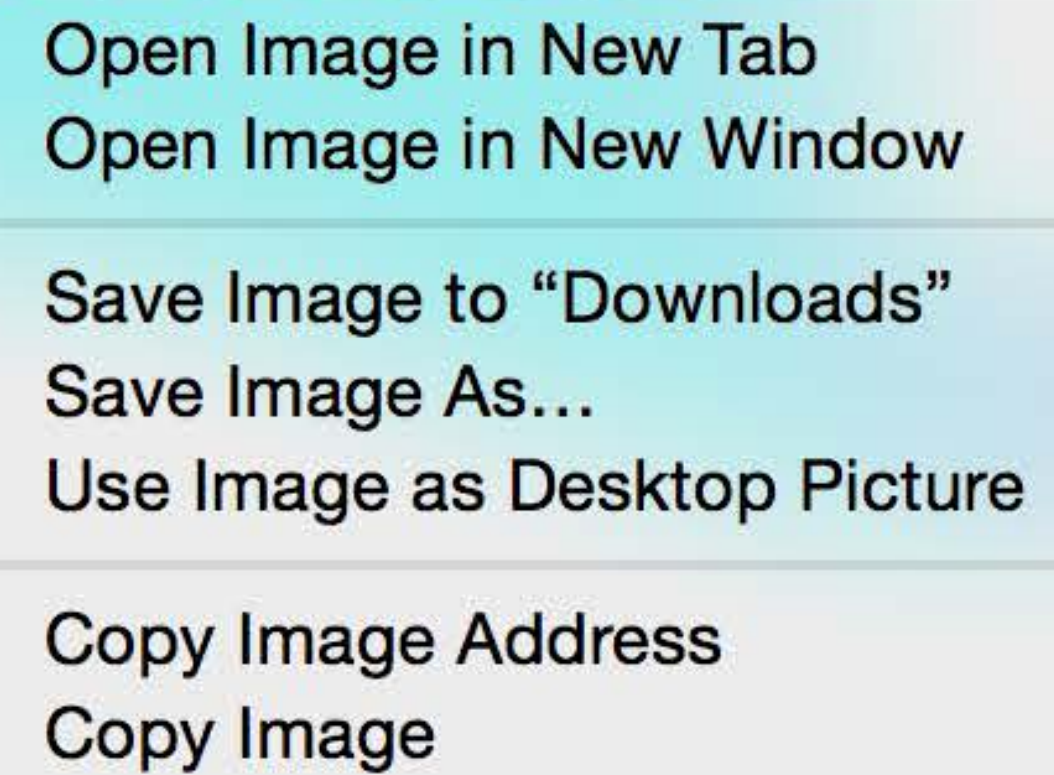




Visual Effect View

NSVisualEffectView

NEW



A screenshot of a context menu for an image, displayed over a background with a blue and white pattern. The menu is light blue with a white border and contains the following options:

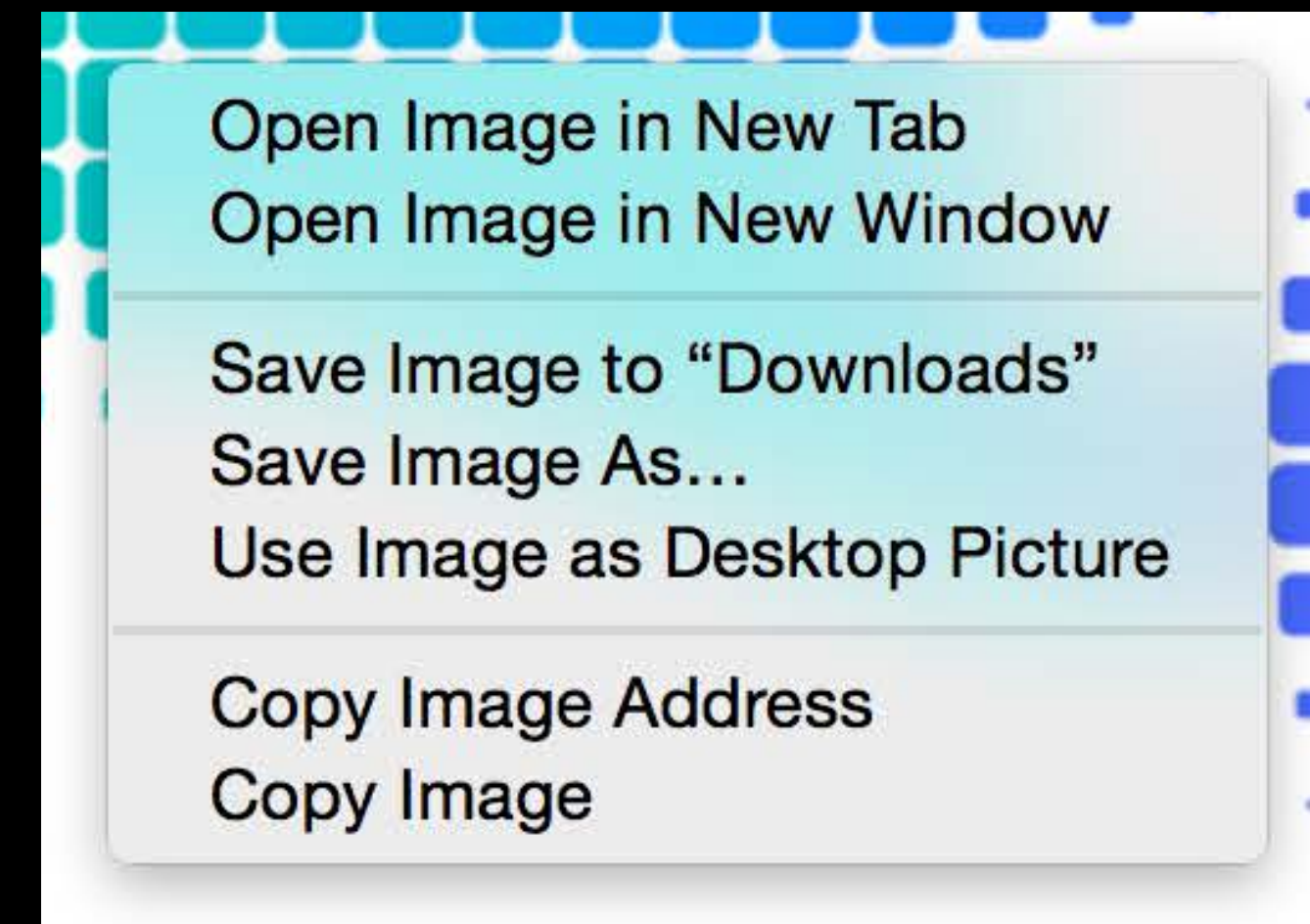
- Open Image in New Tab
- Open Image in New Window
- Save Image to "Downloads"
- Save Image As...
- Use Image as Desktop Picture
- Copy Image Address
- Copy Image

Visual Effect View

NSVisualEffectView



Vibrant Light appearance



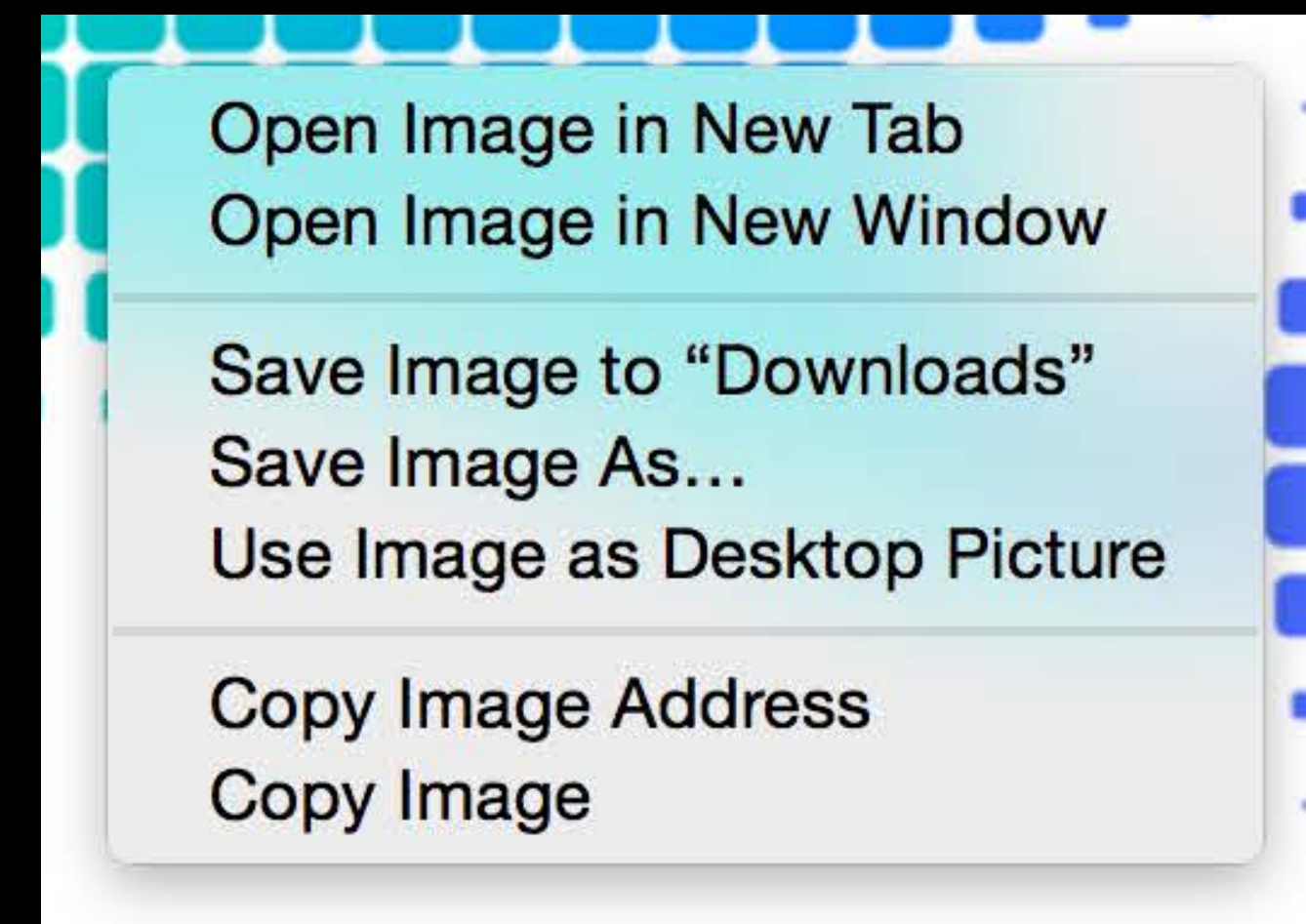
Visual Effect View

NSVisualEffectView



Vibrant Light appearance

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



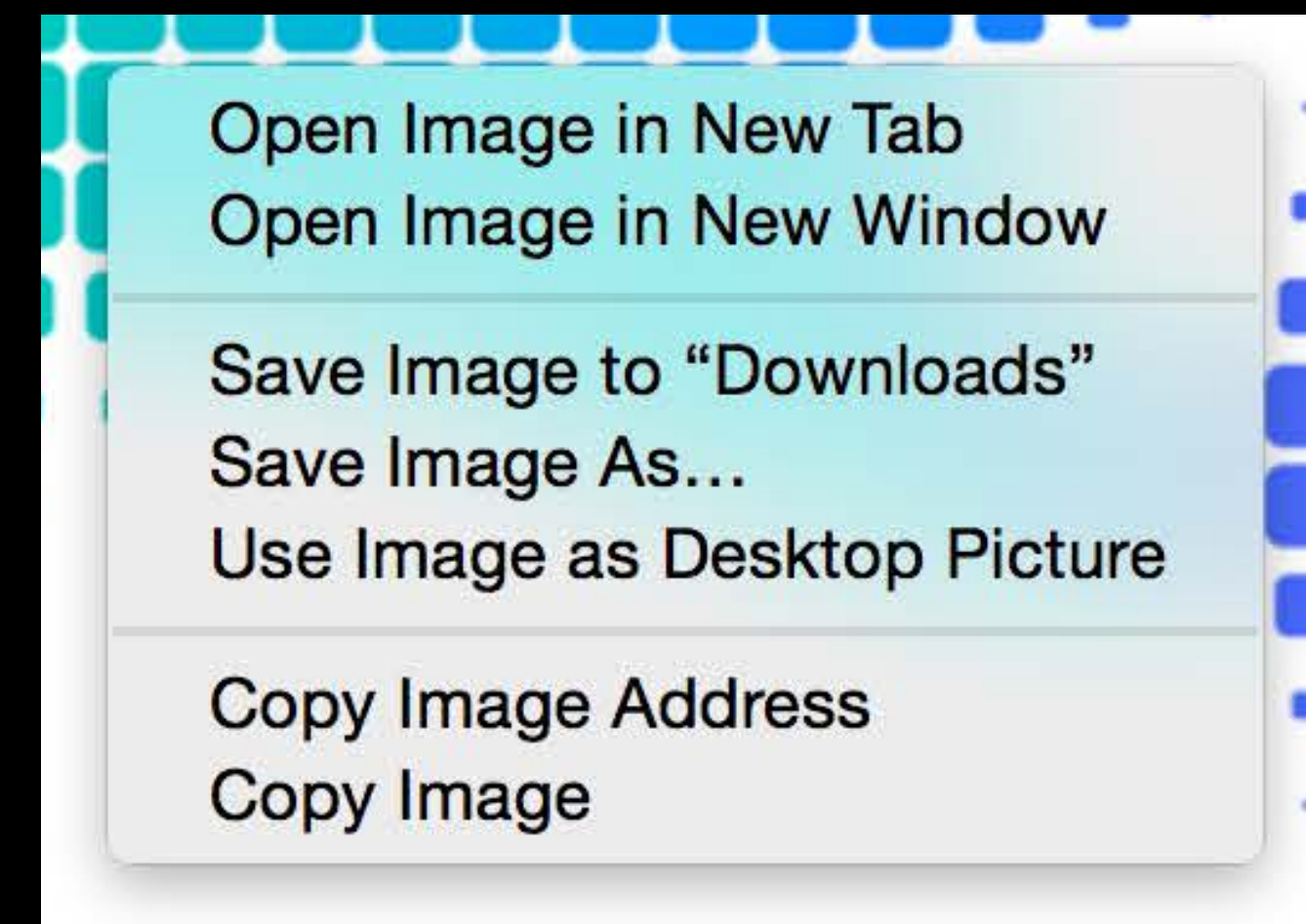
Visual Effect View

NSVisualEffectView



Vibrant Light appearance

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



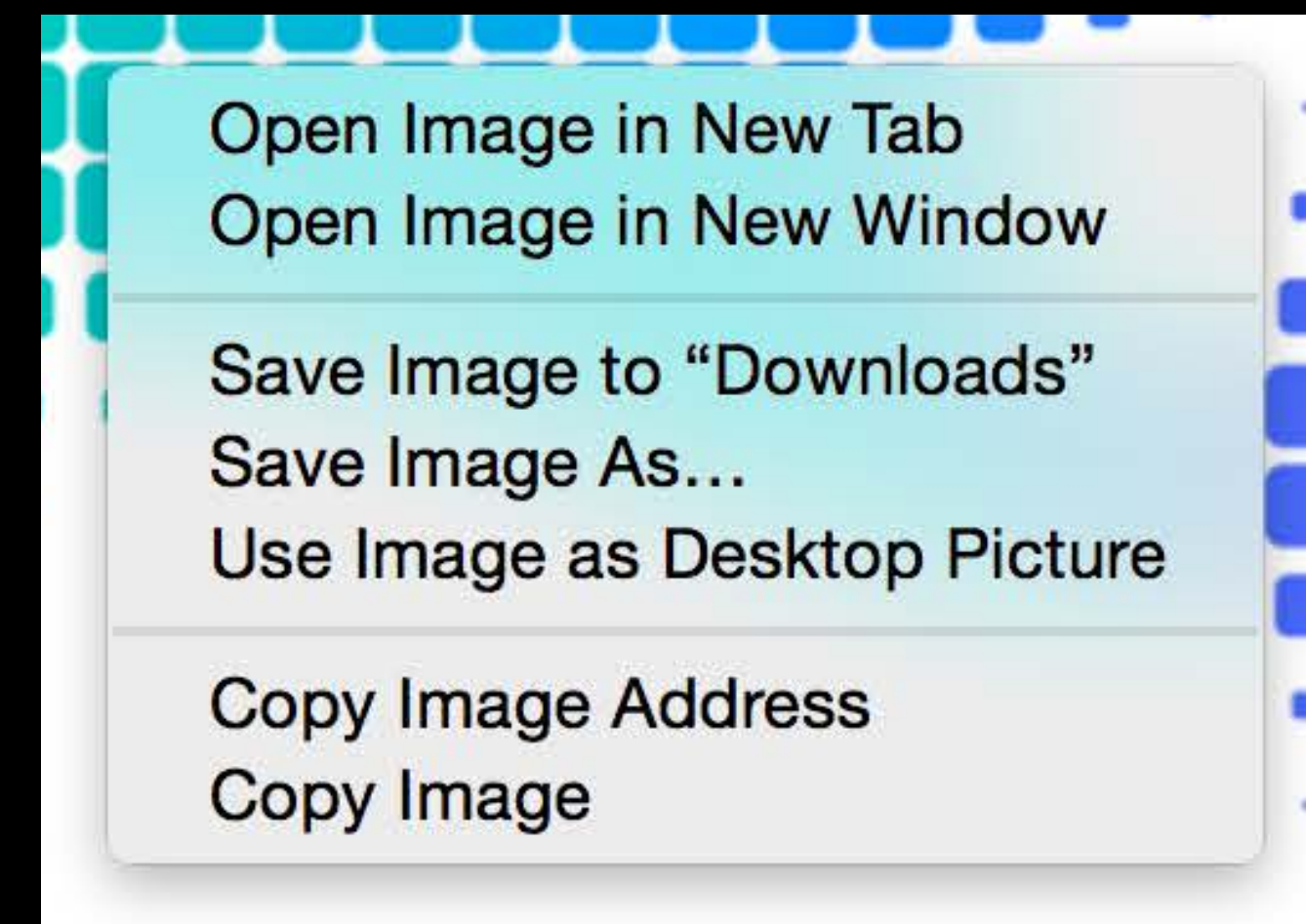
Visual Effect View

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
-

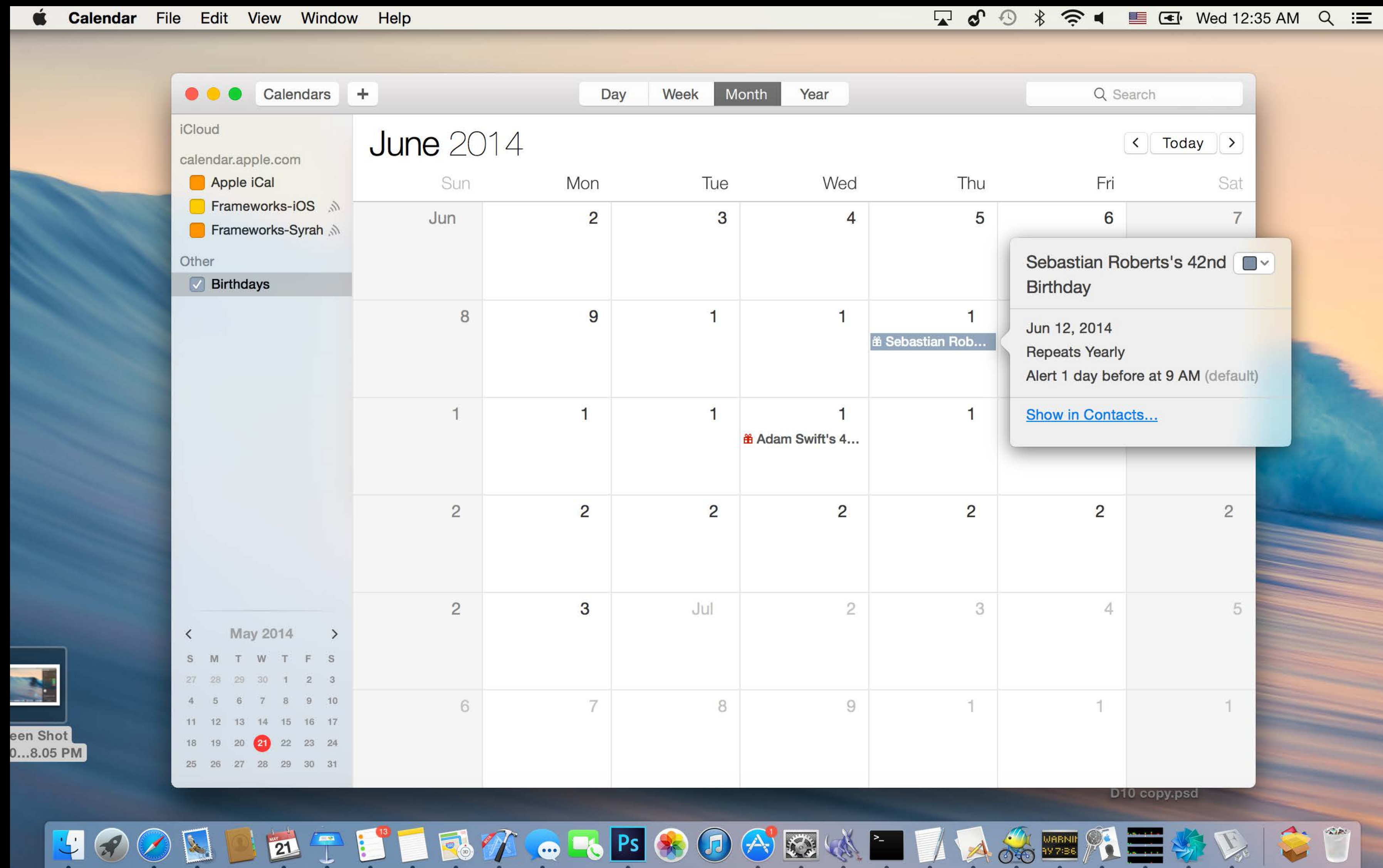
Vibrancy

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



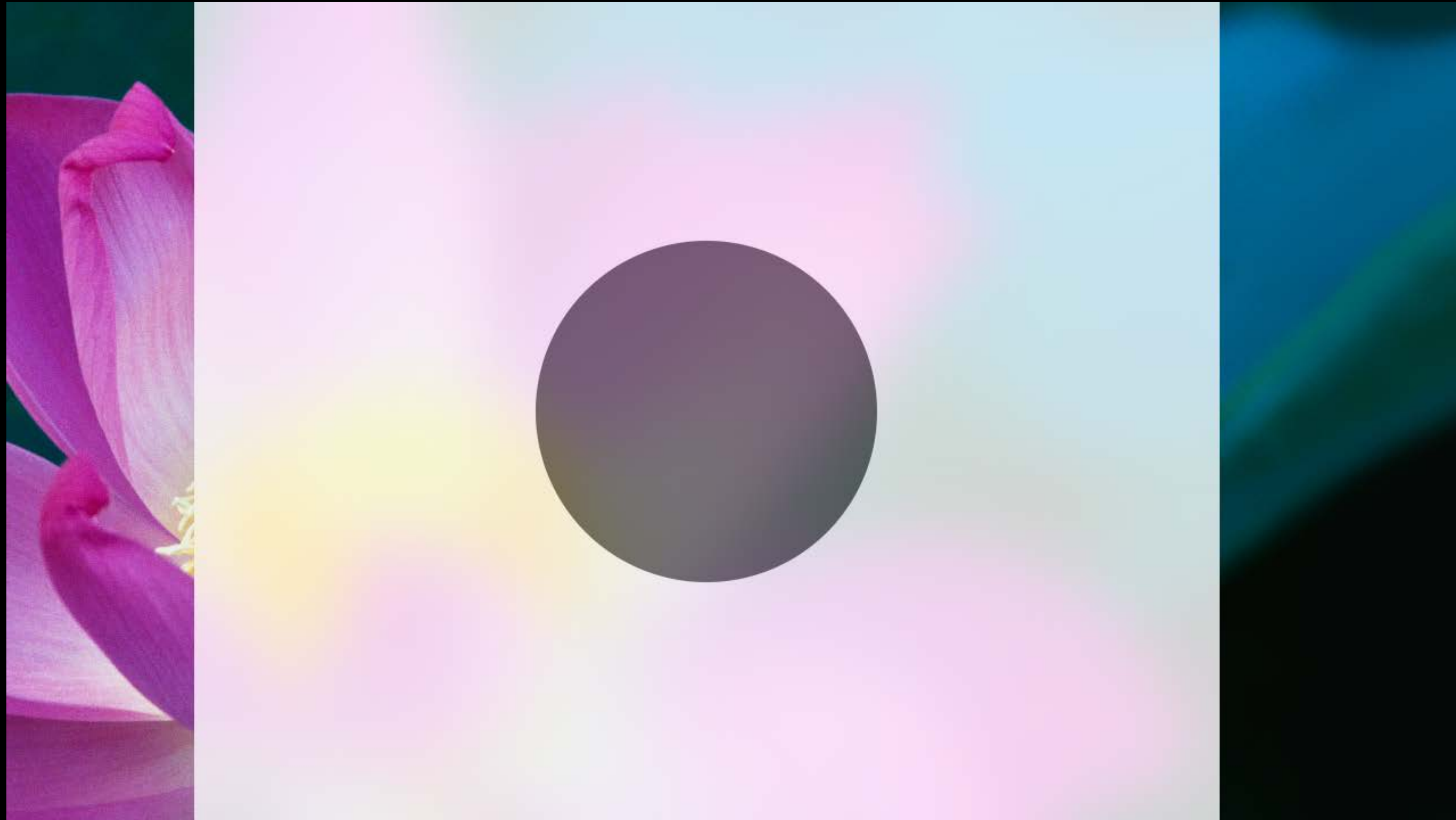
Combining Foreground and Background



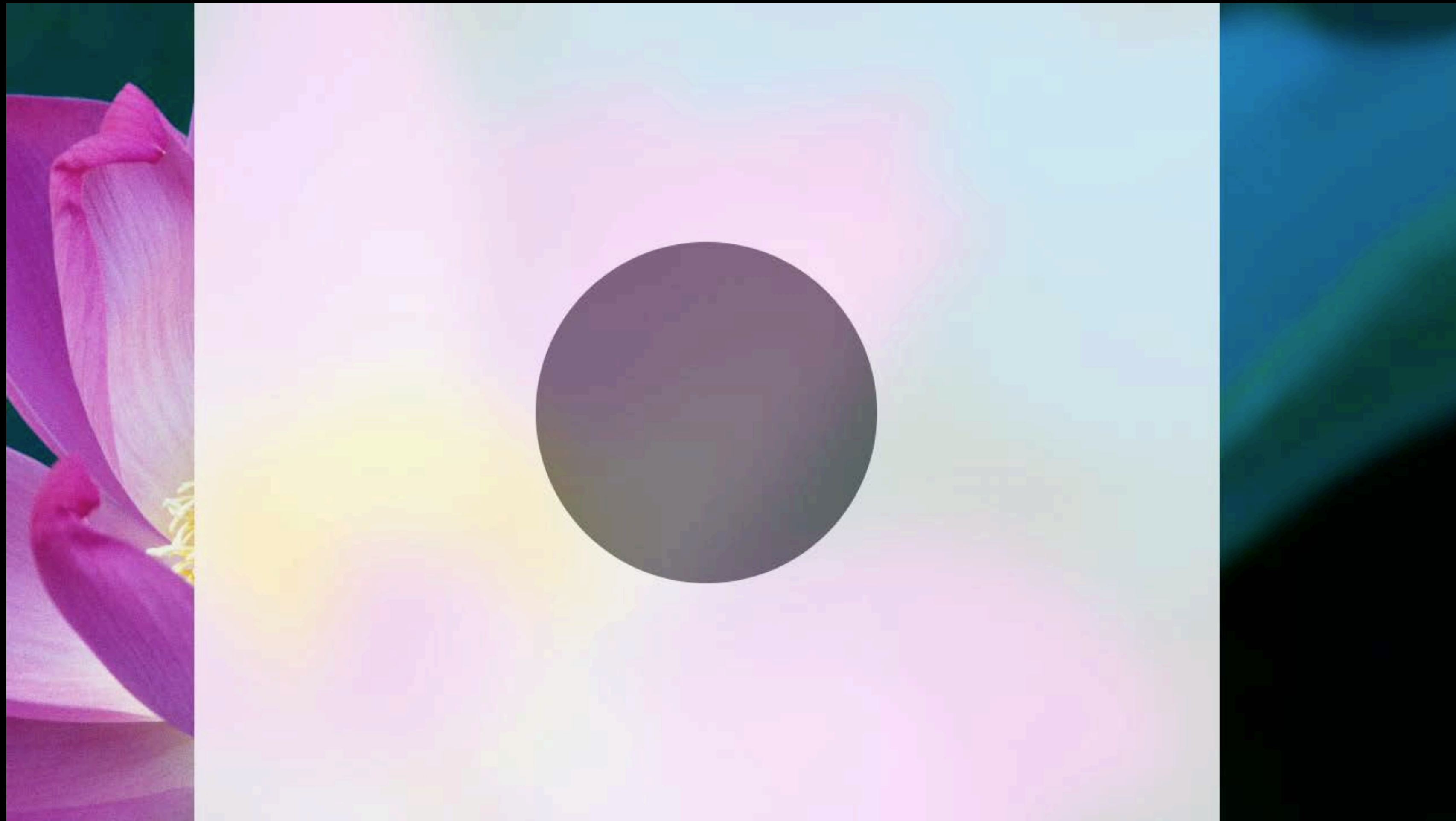
Combining Foreground and Background



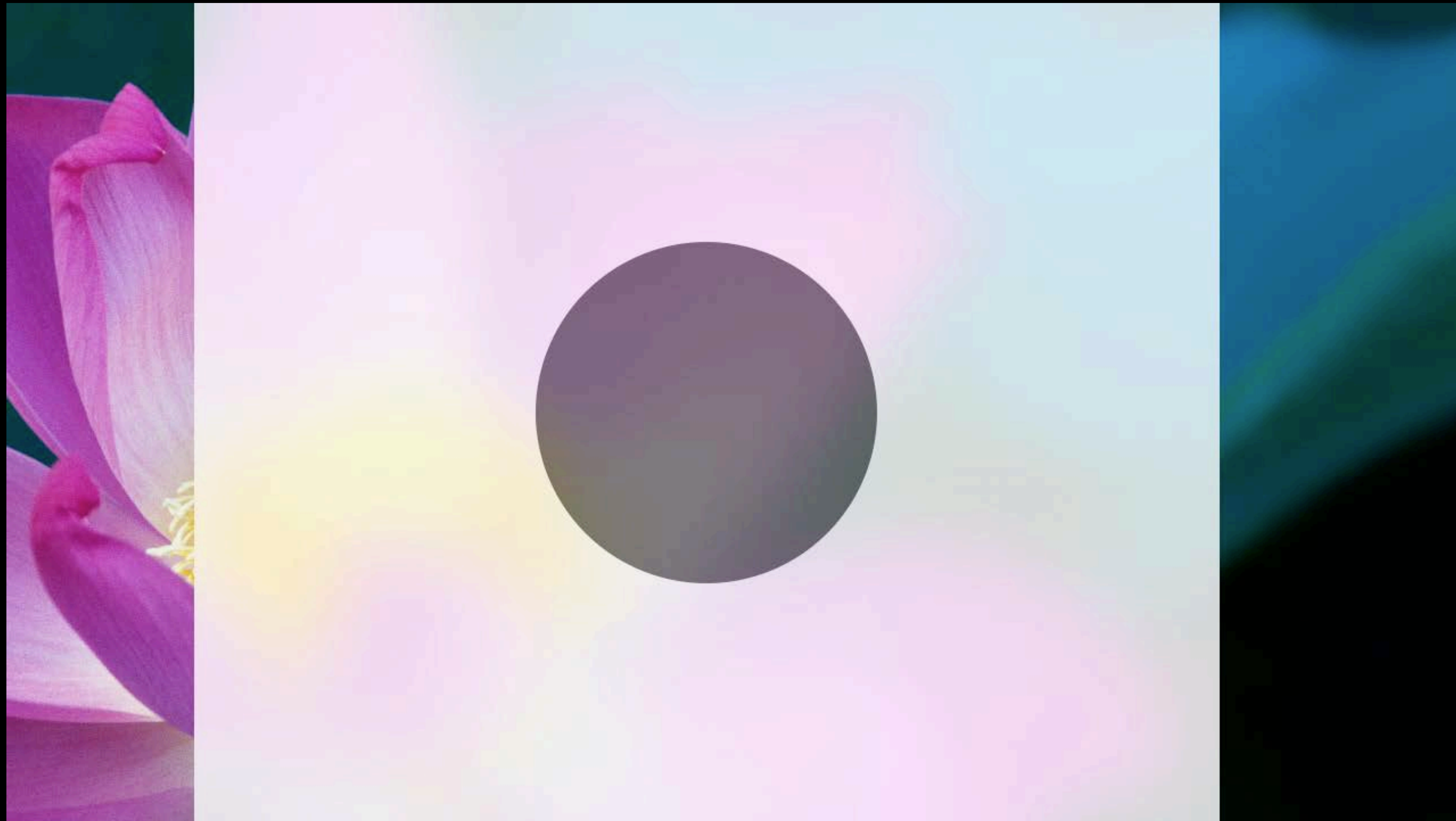
Combining Foreground and Background



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

3.8

1.5

3.6

4.2

4.1

3.2

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

```
+ [UIFont systemFontOfSize:]
```

```
+ [UIFont boldSystemFontOfSize:]
```

```
+ [UIFont 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]

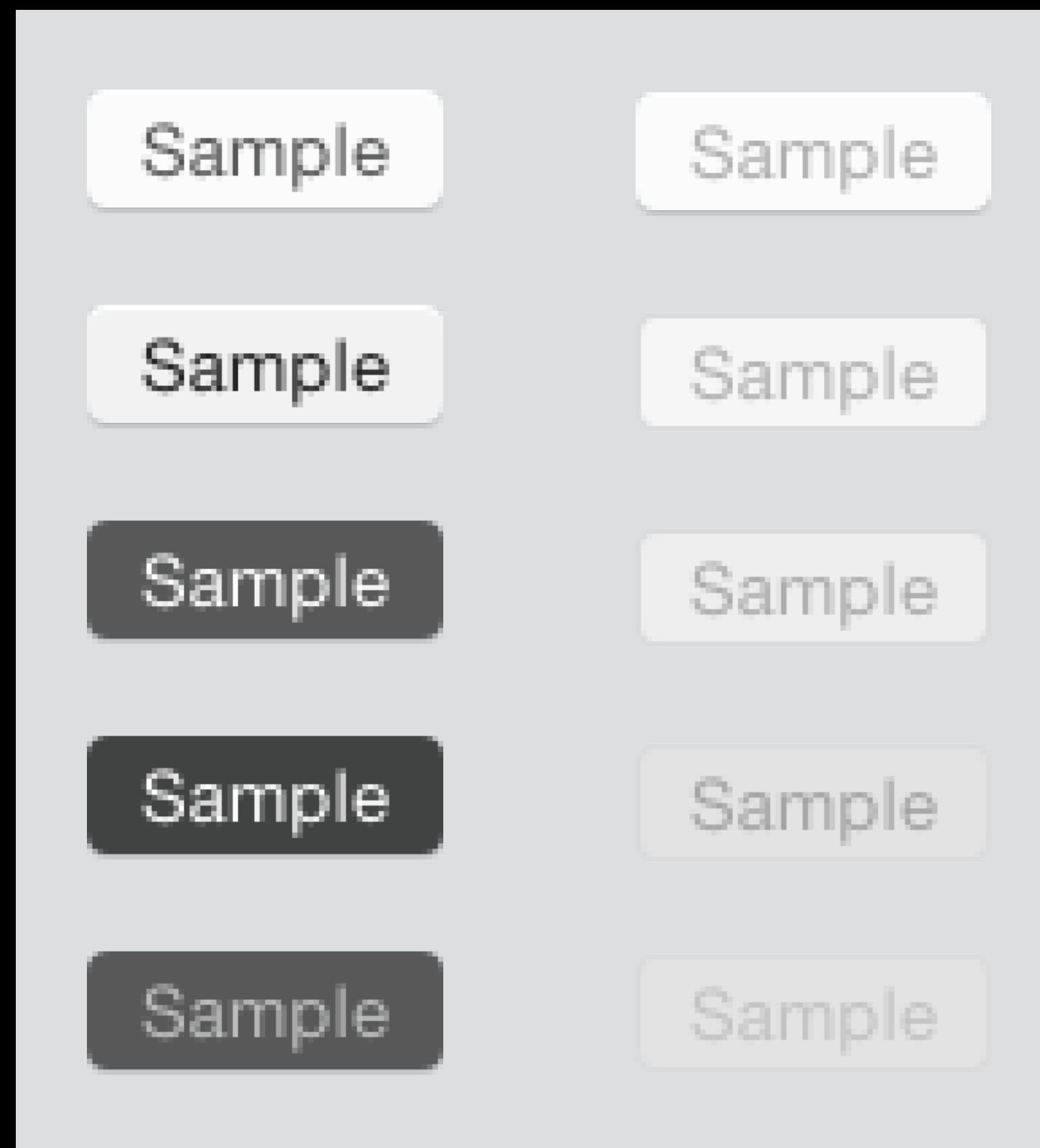
- + [NSColor secondaryLabelColor]

System Colors

Control text adapts to control state

System Colors

Control text adapts to control state



System Colors

Control text adapts to control state

	Active	Inactive
Normal	Sample	Sample
Pressed	Sample	Sample
On	Sample	Sample
On + Pressed	Sample	Sample
On + Disabled	Sample	Sample

System Colors

Adapt to vibrant NSAppearances

Primary Label Color

Secondary Label Color

Primary Label Color

Secondary Label Color

Artwork

Template Images

Maximum flexibility

Template Images

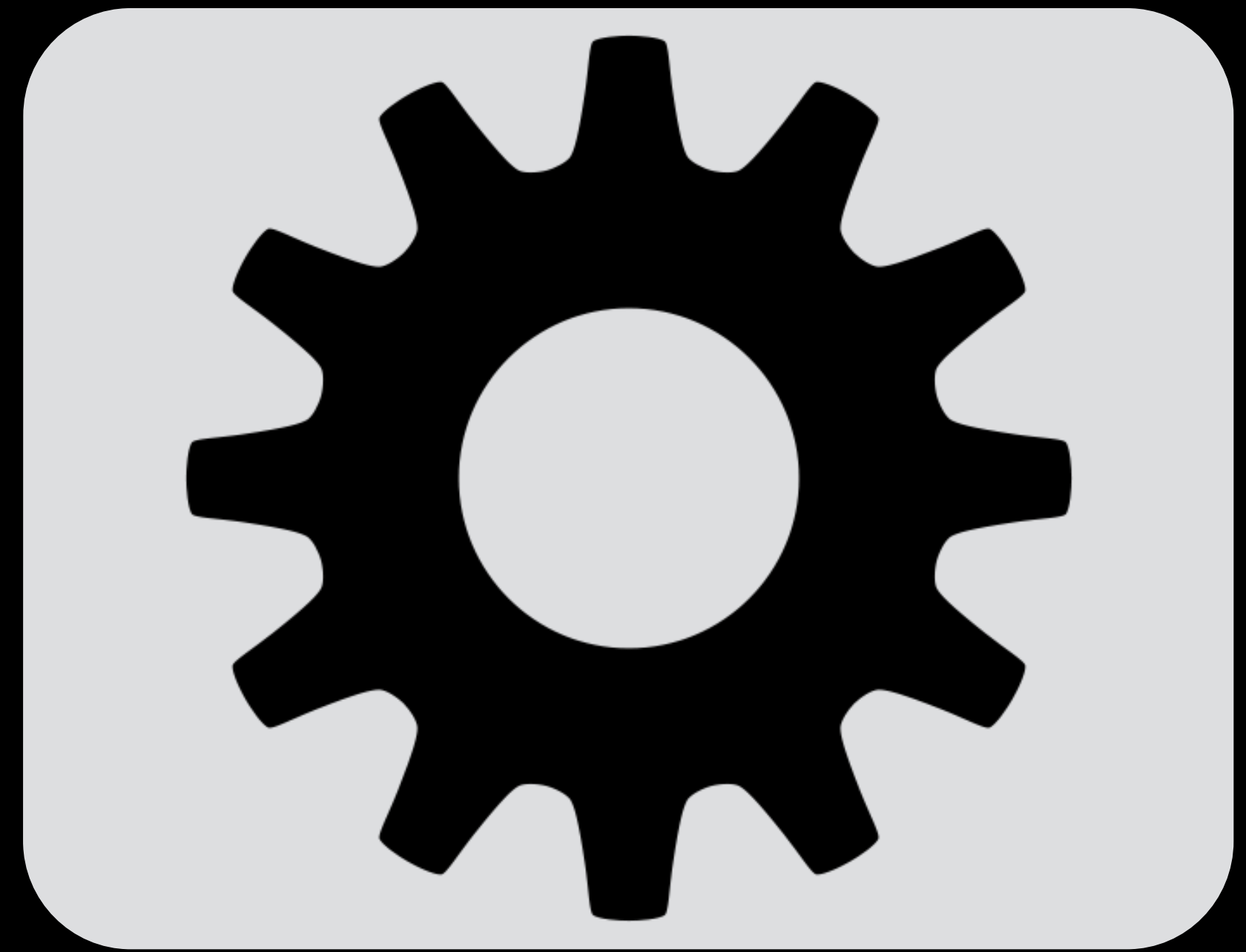
Maximum flexibility

Image provides shape

Template Images

Maximum flexibility

Image provides shape

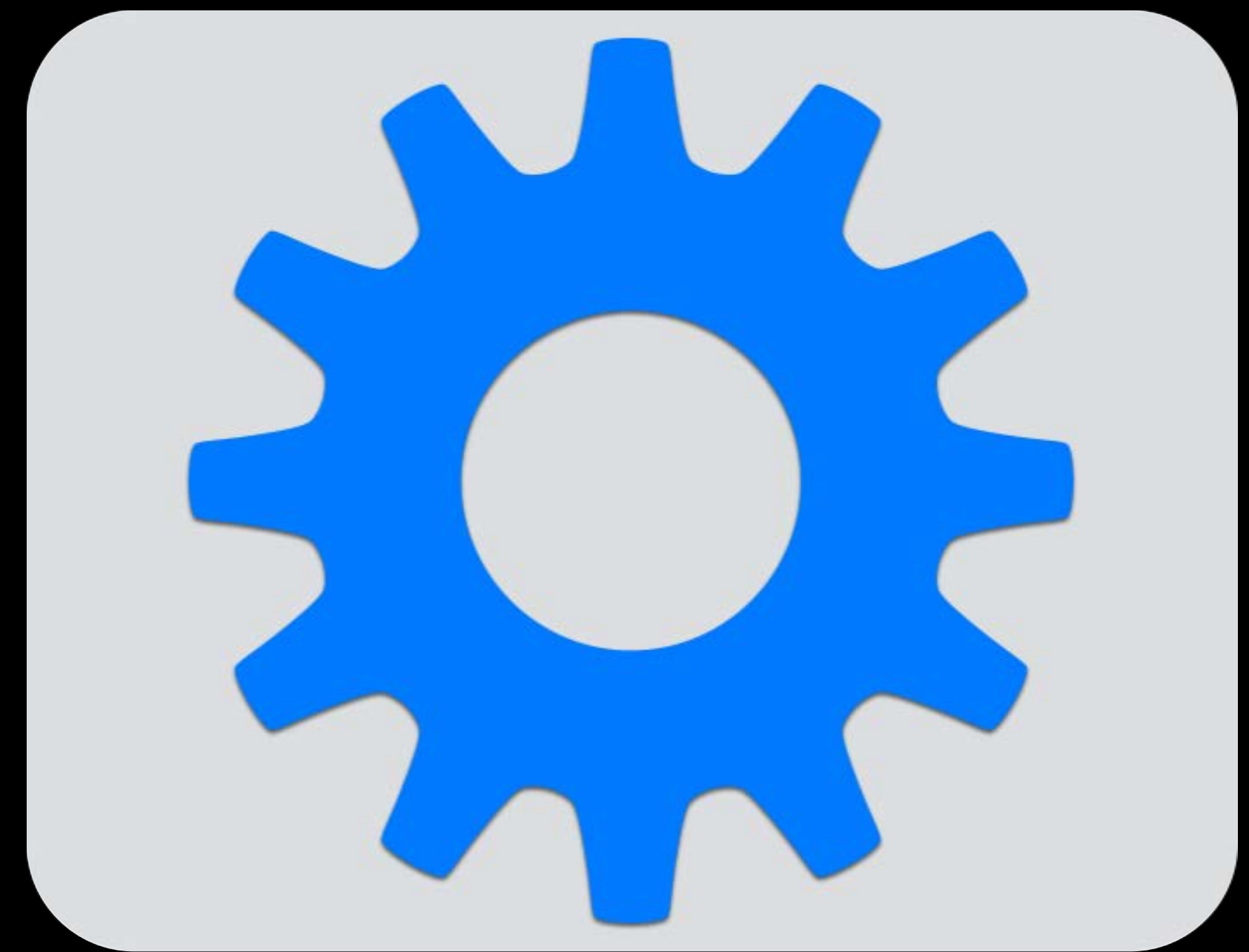


Template Images

Maximum flexibility

Image provides shape

Transformed by AppKit with context
specific appearance



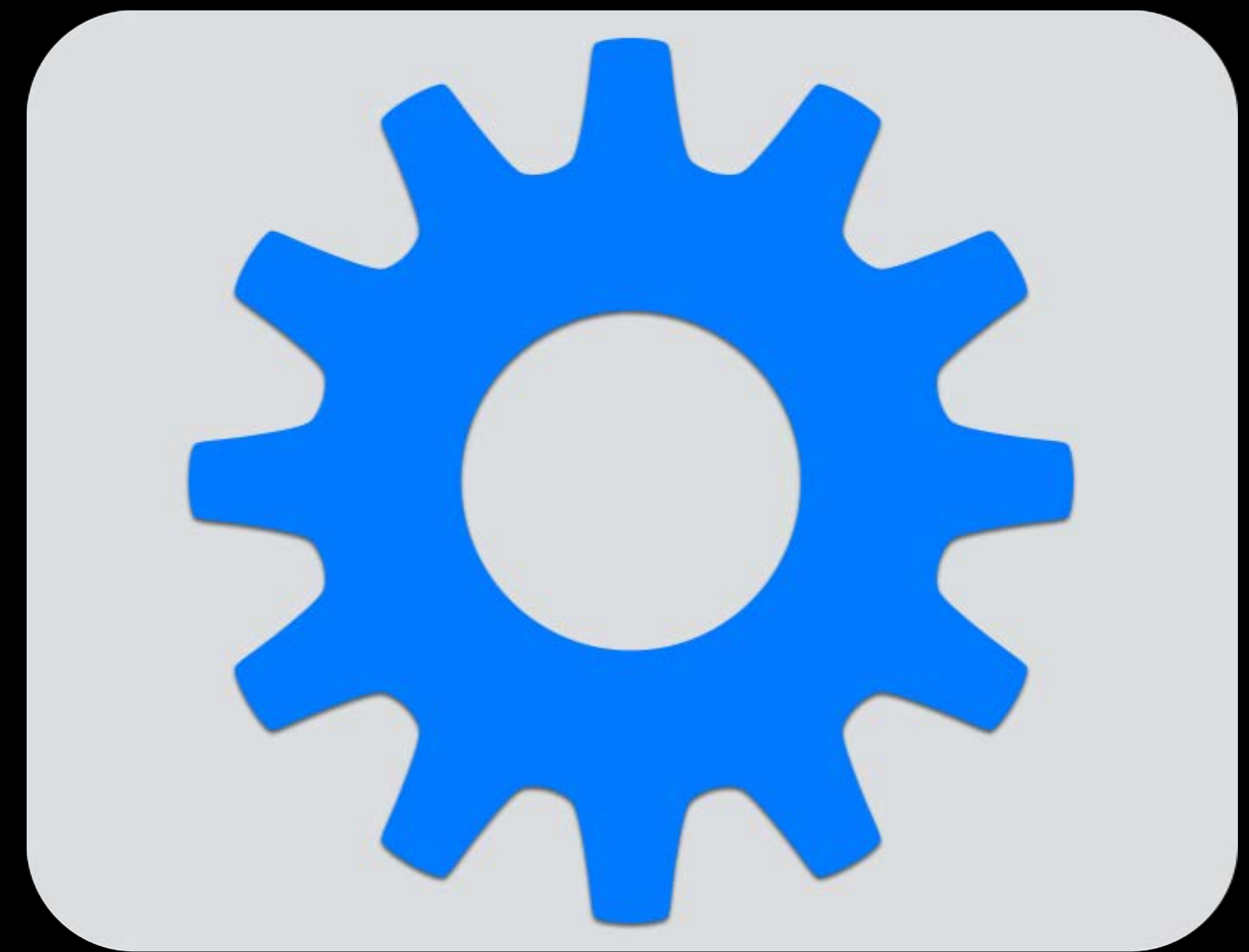
Template Images

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?

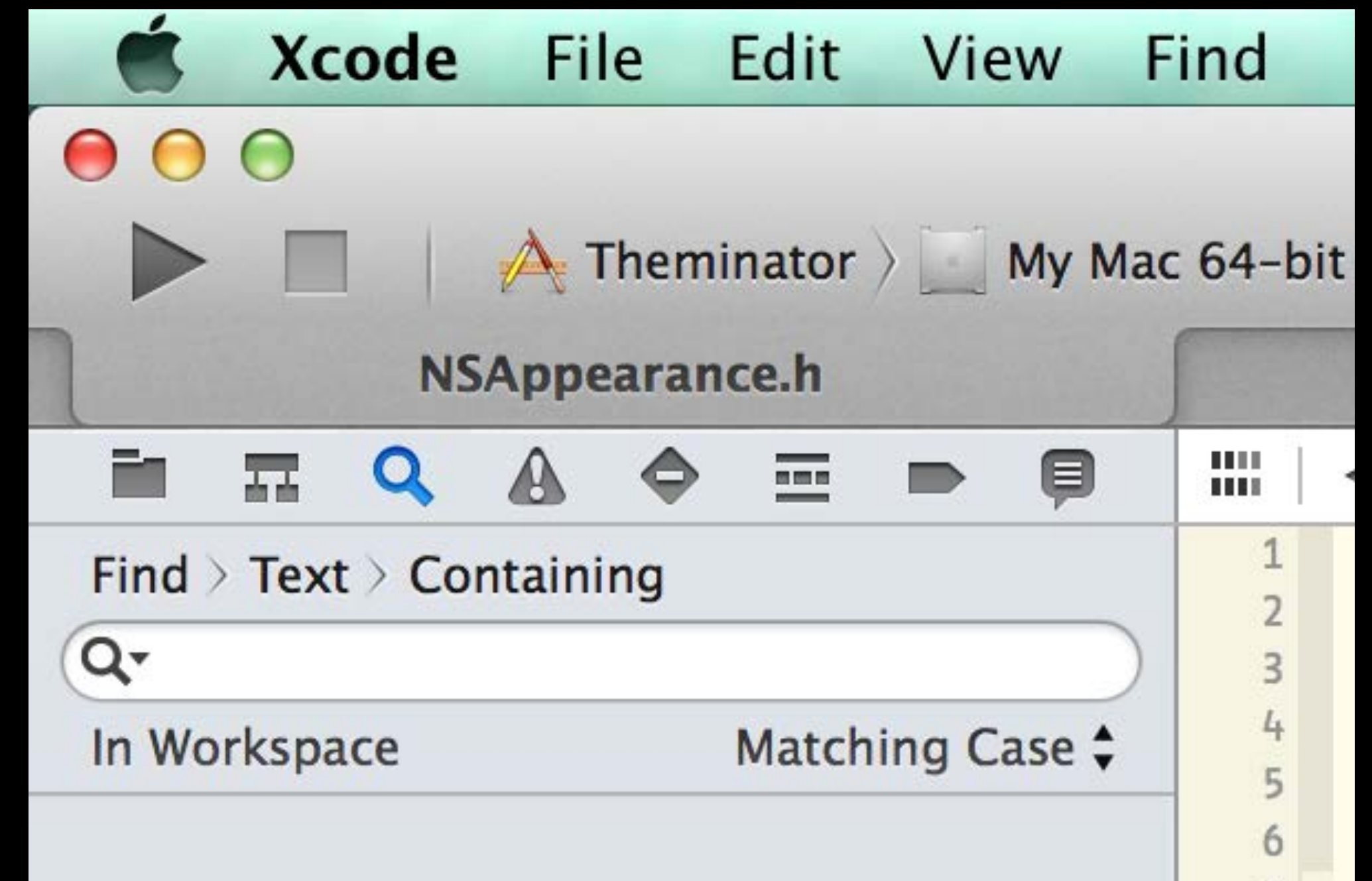
Having it both ways can be hard

App Compatibility

Make it awesome on Yosemite

What about deploying on Mavericks?

Having it both ways can be hard

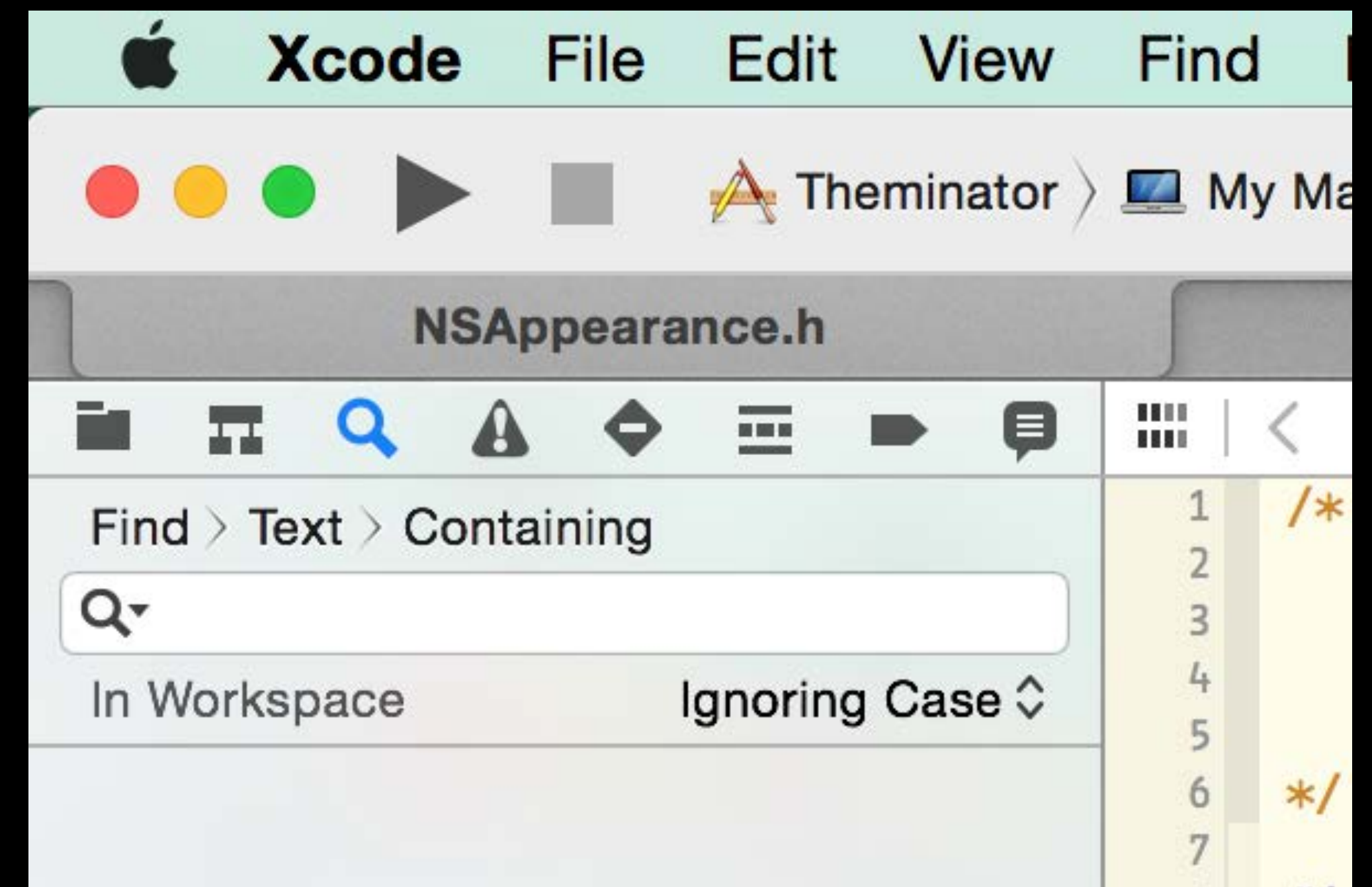


App Compatibility

Make it awesome on Yosemite

What about deploying on Mavericks?

Having it both ways can be hard

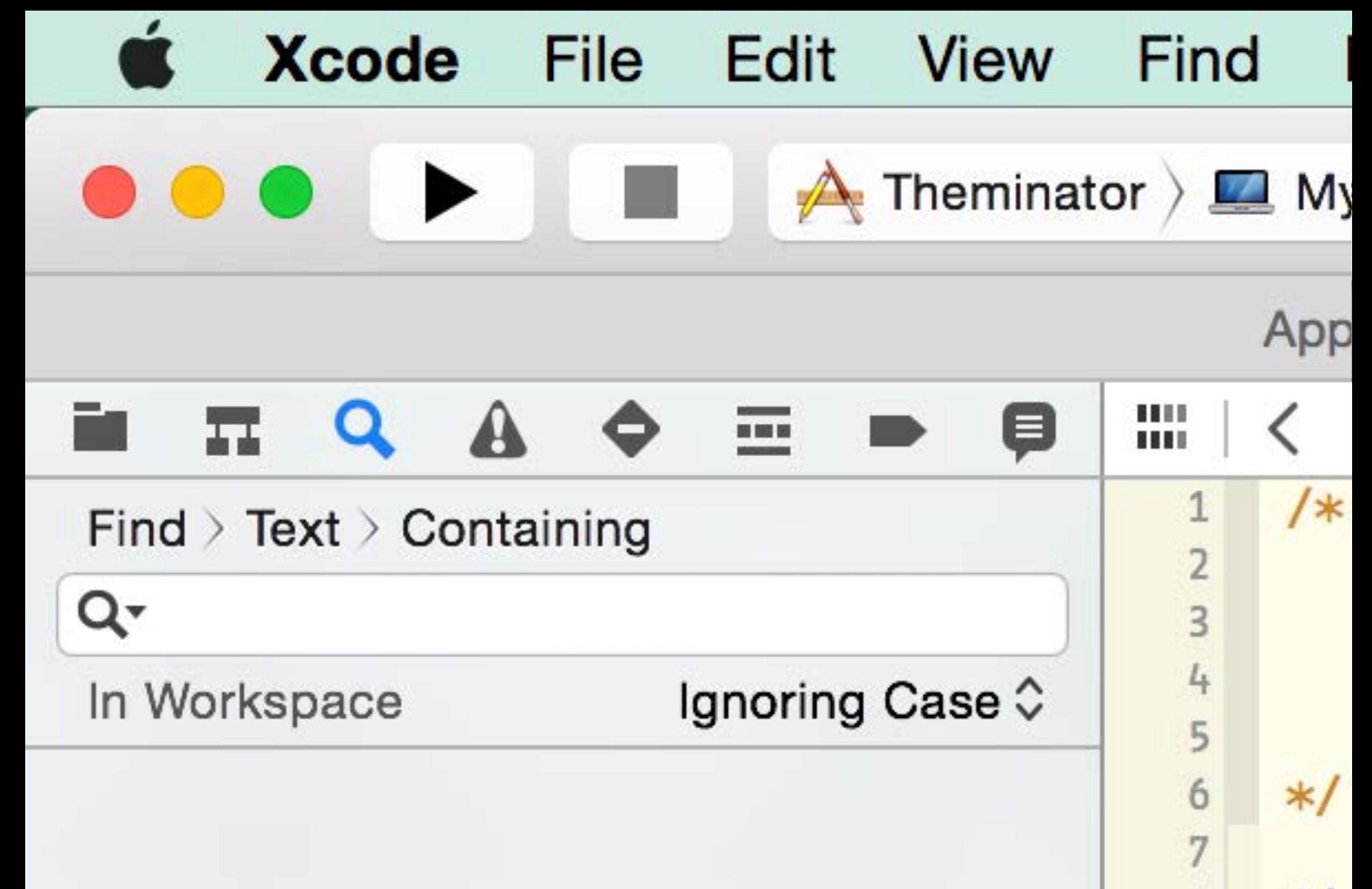


App Compatibility

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 = [UIImage imageNamed:@"InfoImageNew"];  
} else {  
    self.infoView.image = [UIImage imageNamed:@"InfoImageOld"];  
}
```

App Compatibility

Version check

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