

# Intro to Extensions & Making the most of WWDC

Liviu Romascanu - iOS Team Leader - **applicaster**



# So Today...

- We are going to talk WWDC , What's that all about and why should I care?
- Intro and a quick presentation on Extensions.
- A few live demos to see how easy it actually is to create an extension.





# WWDC , Whats that?

Apple's World Wide Developer Convention



# So What goes on there?

- 5000 Developers from all over the world.
- 200 students through projects (some of them with us today)
- 1000 Apple developers answering your every question (almost)
- 100+ tech lectures
- Long lines to enter the event (Hey - It's Apple after all :) )
- Cool Keynote





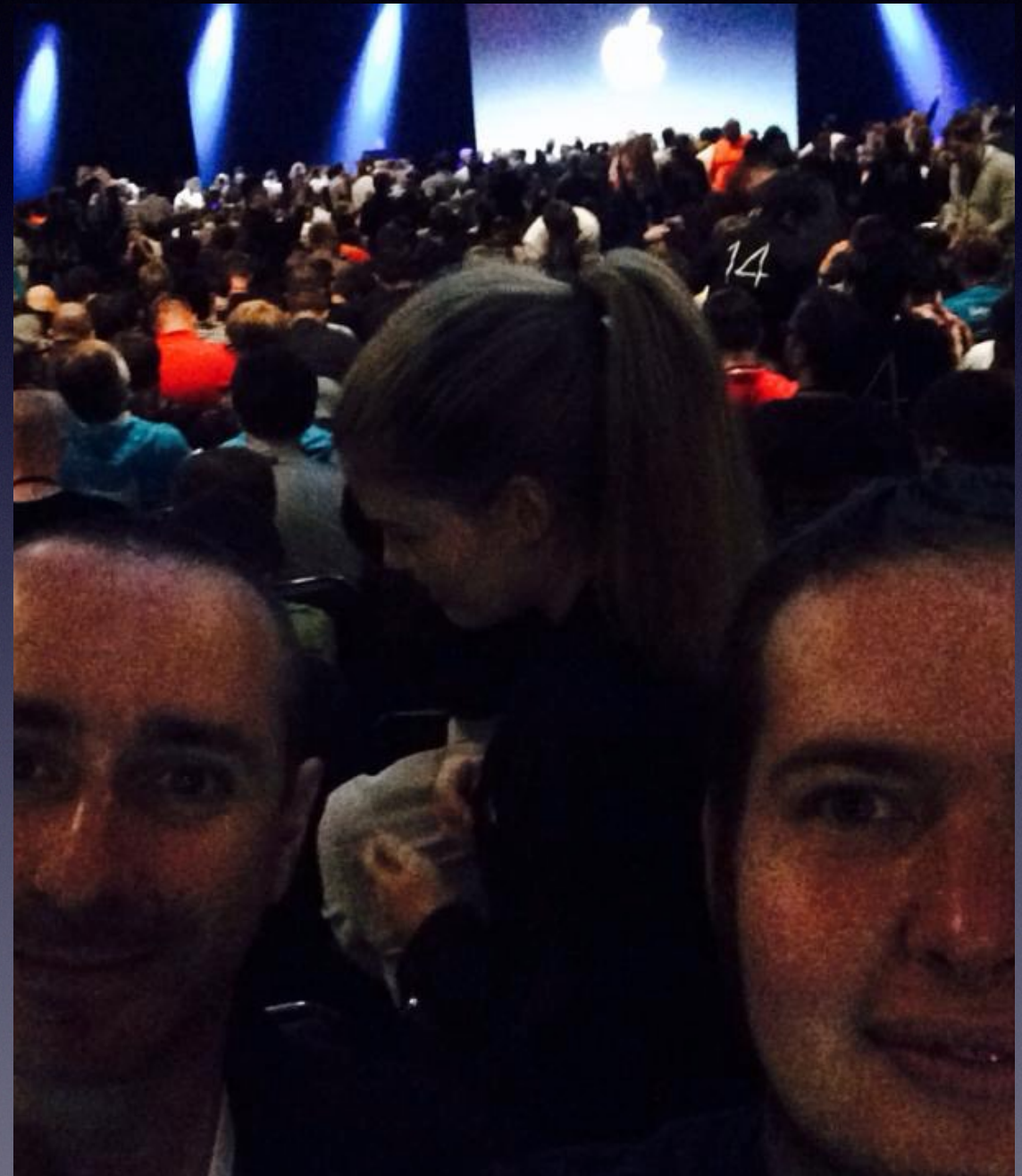
# Keynote anyone?

- Each year the keynote lays the future in iOS and OSX development for the upcoming year.
- New beta versions are revealed with full feature lists, development tools and so.
- A week full of tech lectures about almost every aspect of iOS and OS X application delivery - From Native iOS and OS X through web for Safari on different platforms and some design and UX lectures.
- It's a must to see at least: Keynote , State of union lectures and what's new lectures every year!



# Why go when the lecture videos are online?

- Lectures are sometimes edited.
- Labs, Labs, Labs, Labs, get all your answers from the best.
- UI/UX Lab with Apple's own team.





# Wait, There's more?

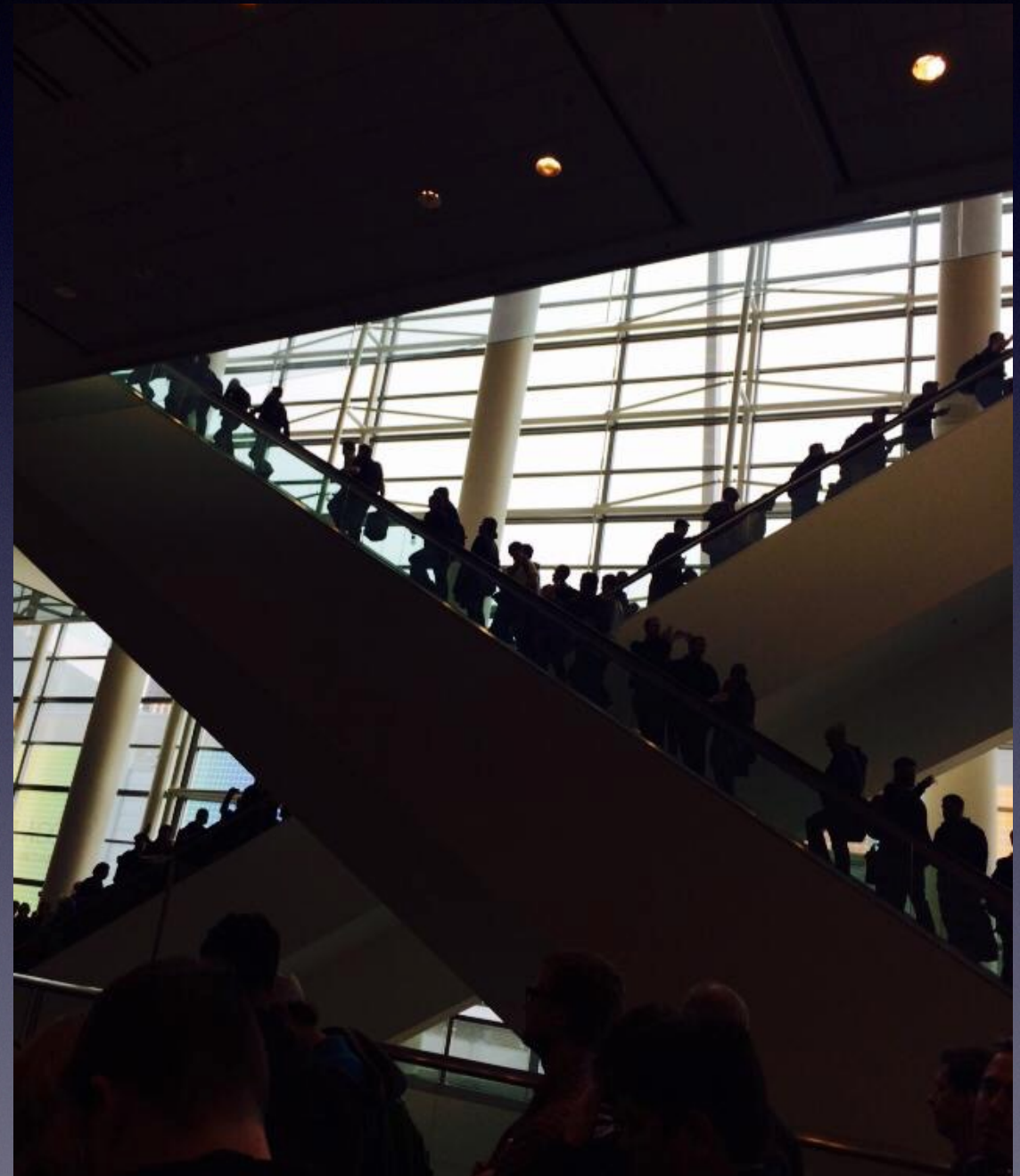
- Socialize and bounce ideas with fellow dev
- Altconf and other community events (Cocoapods meetup, NSHipster Pubquiz...)
- Parties (Drinks , food , company , what more can a geek ask for)





# So you want to go?

- Tickets are running out fast - this year was a lottery but past years it's been first come first serve - monitor websites.
- Order hotel ASAP - it's usually cancellable. Check out negotiated rates at the WWDC site.
- Order flights ASAP.
- Get Genady's party app and start enrolling to parties.
- Bring questions for labs and demo projects for issues from home.
- Enrol early for UI Labs.





# This year was...

- Amazing!
- Very intense in terms of content.
- The year for developers to go , feels like a change on Apple's side





Some questions before  
we move to the tech part  
of this talk?



# Extensions 101

- Extensions are a way to extend your current app beyond the boundaries of the current paradigm of a main running application.
- It's done in a safe and secure method.
- In terms of the app itself - it's a separate target inside the application project containing its own code and view controllers.



# A bit deeper tech stuff

- Extension points - bind extensions to various part - for example notifications for widgets. They are accessed from Apple's frameworks - not launched by themselves.
- Extensions are a purpose built binary - it's own code signature , entitlements and container.
- Each time an extension is ran - it's a new instance.
- Mainly discuss Share & today extensions but let's run through them all.



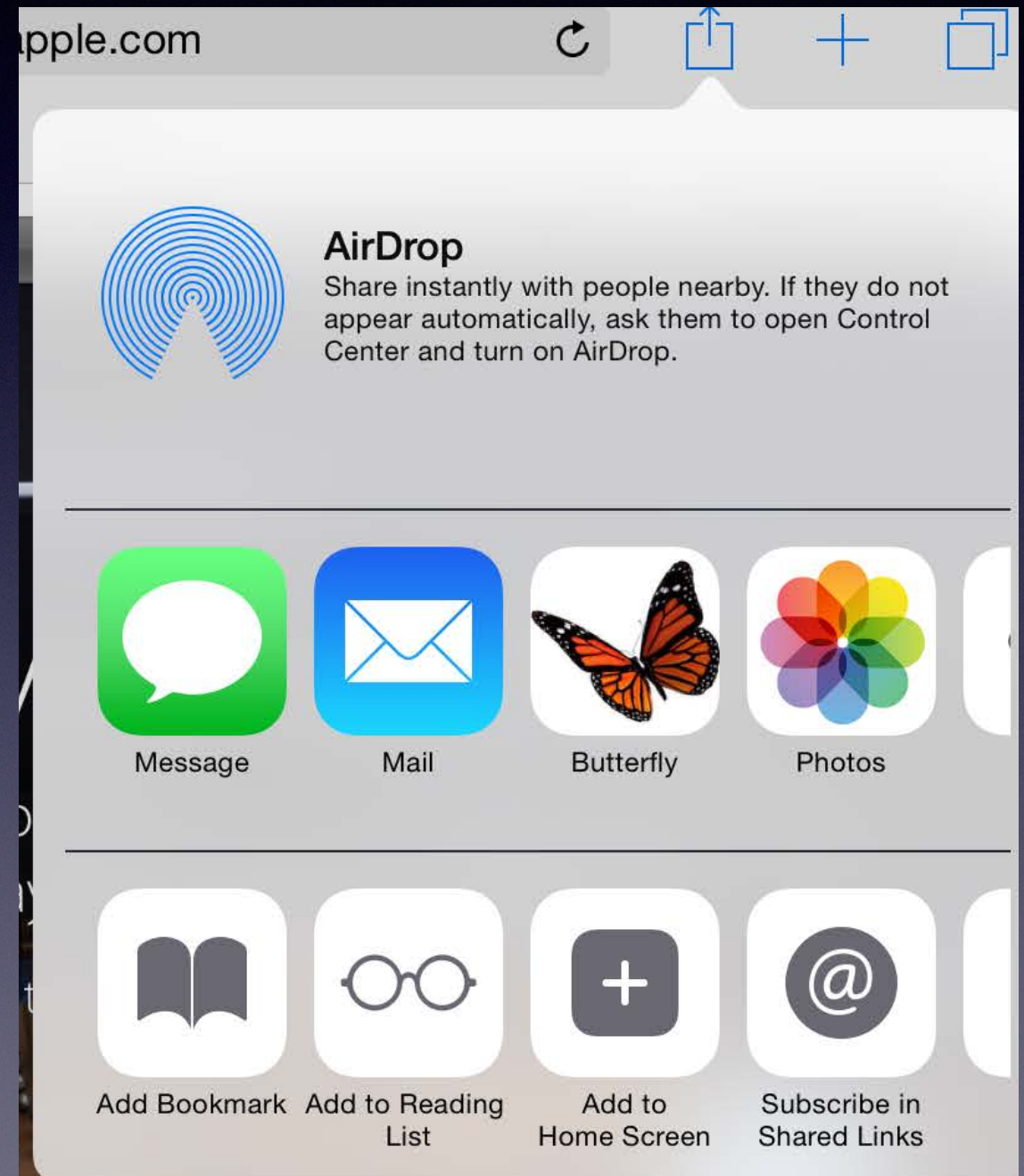
# The types we won't talk about today ...

- Actions without UI (for example translation)
- Image Filters
- Document providers
- Custom keyboards shared throughout the system



# Types - Share extensions

- Add new sharing options to whatever Apple gives (like Facebook , mail , message and Twitter nowadays for example)
- You can subclass `SLComposeServiceViewController` for an easy out of the box controller or build your own.
- Must have Name and Activation rules (What can you share , how many etc)
- Upload - should use a background `NSURLSession`





# Types - Today Extensions

- AKA Widgets
- Exists in the notification centre
- User had to Approve them manually.
- Has it's own lifecycle around the view controller.
- Can share information with the app with a few standard ways (user defaults , keychain, shared directory space).
- To set size - set preferred height. Notification center will be the one setting it. Animate using `viewWillTransitionToSize:`
- Must load fast!





Hammer time!.....

Eh , Demo Time!



# Passing Information

- You can easily pass information using various tools - let's show how it's done with User defaults
- Don't forget to use App Groups!



# Pulling information

- Second thing we all like to do is pull information from our nice remote servers
- In this case let's show how we get an information from a remote server and display it in the widget.



# Share with Batman?

- Creating share options is as easy as 1 2 3
- Custom UI Can be done by replacing the default sharing view controller with a regular UIView controller and using the [UIViewController extensionContext] to control the lifecycle of the view controller. Still lot's of bugs there.
- To do that - don't forget to add to your view controller `<NSExtensionRequestHandling>` and be aware of the extensionContext - as you will call it to finish the action.



# Questions?

Come on , Don't be shy - you in the back?



# Short Recap

- WWDC - Come there , but don't take my ticket space :). Watch the important videos - they are priceless.
- Extensions - Really cool feature that changes a lot of our eco system this year.
- Share extension - create new share methods
- Widgets - Notification center visible components



# Thanks & Good night.

Feel Free to catch me for more technical questions,  
Lecture recommendations, Bar Mitzvas and food  
bribes.

Liviu Romascanu

[l.romasca@applicaster.com](mailto:l.romasca@applicaster.com)

@livius16

[facebook.com/liviur](https://facebook.com/liviur)

[github.com/liviur](https://github.com/liviur)

Relevant video material:

WWDC 2014 Videos - Creating Extensions Part 1 / 2