Passbook for Developers

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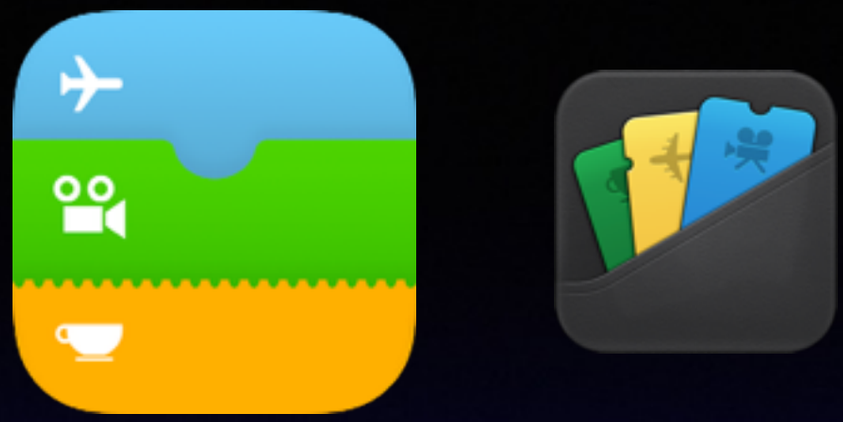
Agenda

- Why should you use Passbook?
- How do you create a Pass?
- How do you update a Pass?
- Hands-on: creating your first Pass

Origin Story

- Lead Developer, LightSpeed Retail Client
- Lead Developer, Transgaming
- Developer, Corel Painter 7—X1
- Conference Organizer, NSNorth.ca
- Cocoaheads Ottawa/Gatineau since 2009

http://mactech-passbook.appspot.com @philippec



What is Passbook?

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Why not $foo?

- Email?
- RSS?
- Custom app with push notifications?
- SMS / iMessage?

Why?

- Lock Screen
- Live Updates
- Location-aware
- No App Store Review

Lock Screen

- On by default
- Relevant to date, time or place
- Can be location-based
- Do not abuse

Location

- Up to 10 points-of-interest in one pass
- iBeacons
  - multiple locations with the same identifier
  - multiple locations with different purposes

Push Notifications

- On by default
- Change messages
- Do not abuse

Pass Design

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Front Layout

- Style determines layout
  - boardingPass, coupon, eventTicket, storeCard, generic
- Barcodes
- Top-level keys
- Images

Figure 3-4 Layout of an event ticket

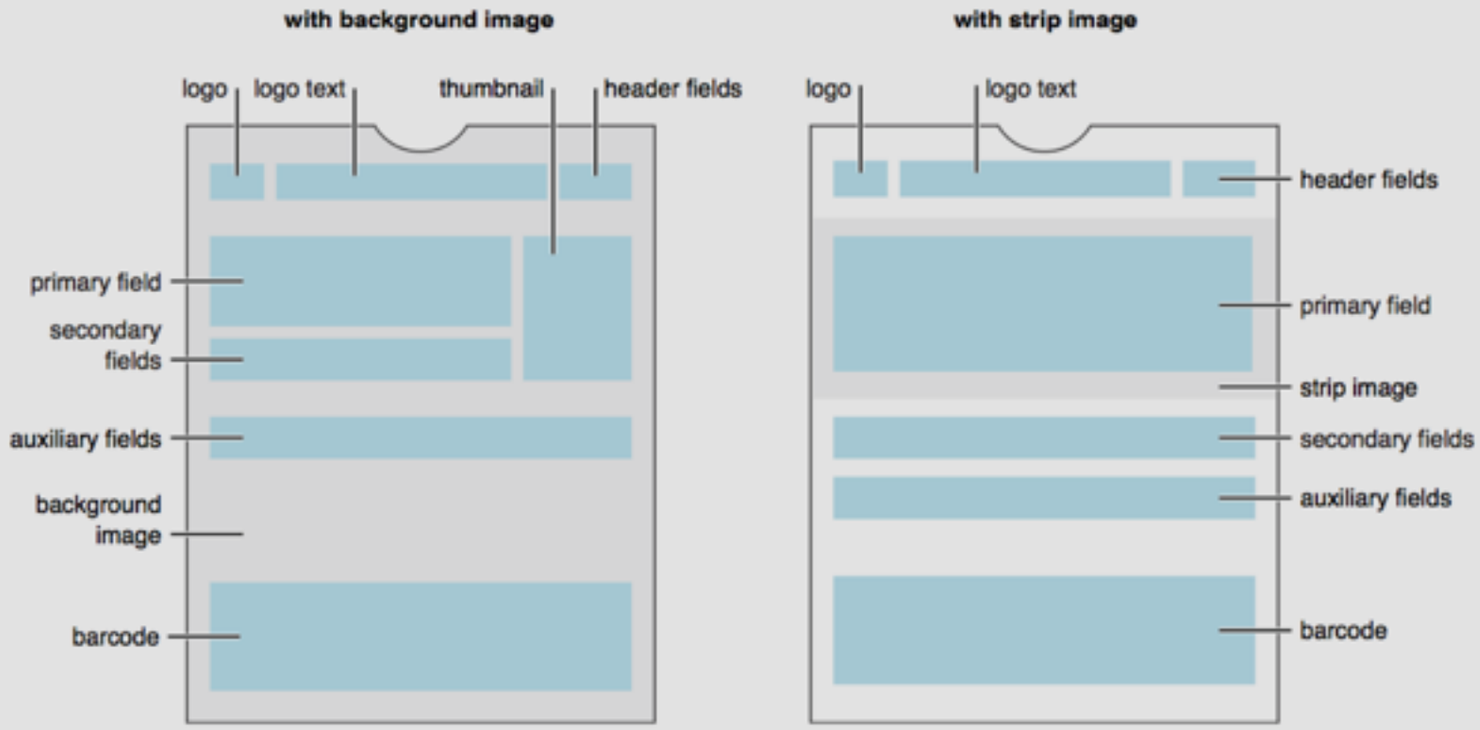
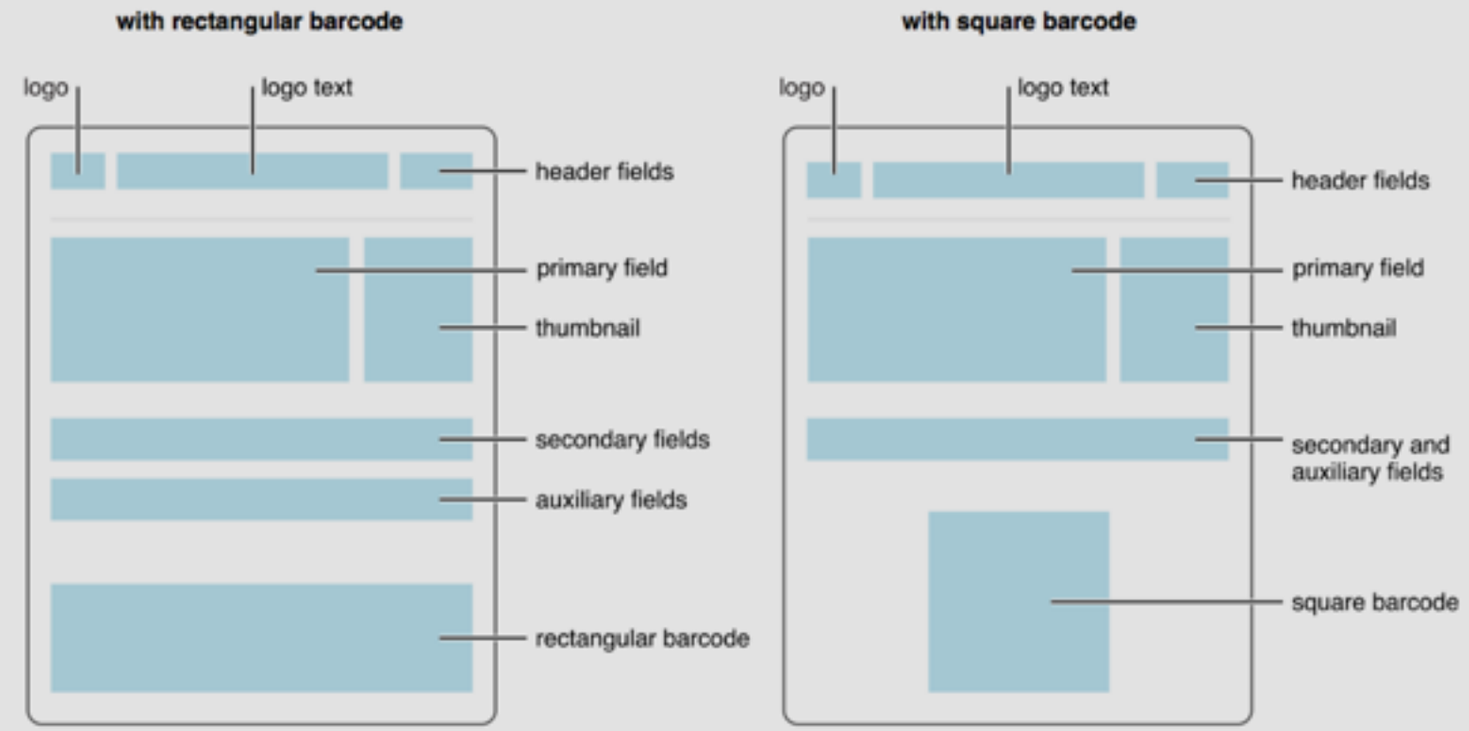


Figure 3-5 Layout of a generic pass



Back Layout

- Still key-value based
- Lots more room (can scroll)
- No pictures
- Data detectors

Pass Anatomy

- pass.json
- manifest.json
- images
  - background.png / footer.png / icon.png / logo.png / strip.png / thumbnail.png
- signature

Before creating a pass

- Create a pass type ID
- Create a signing certificate
  - myRequest.certSigningRequest
- Store it in your keychain or on your server
- Same certificate for push notifications

Creating a pass

- Start from a sample pass
  - Decide what kind of pass you want
  - Play with the layout, add images, logos, etc
  - Add / modify content
  - Test on iOS6 and iOS7

Testing a Pass

- Drag it in the Simulator
- Safari can open from a web service
- Cannot test dynamic passes in the Simulator

Dynamic passes

Update Dance

- User gets pass (email, URL, ...)
- Passbook checks for update
- Server sends update (or 304)
- Passbook displays / silently updates
- (time passes)
- Server sends push notification
- Passbook checks for update…

API Endpoints

- https
- REST: GET—PUT—POST—DELETE

- /log
- /passes
- /devices

GET

/passes/mactech.pkpass

POST

/v1/devices/
b56248df6fd8b722d7dae0feae864fed/
registrations/pass.com.casgrain.mactech.
2013/ABCDEF-12345

Payload

pushToken:
b102dcfe395b2394d9f6ca5a54832f8bc9fffe485c
8330157bfd9436abb03384

GET

/v1/devices/
b56248df6fd8b722d7dae0feae864fed/
registrations/pass.com.casgrain.mactech.
2013

200

GET

/v1/passes/pass.com.casgrain.mactech.2013/
ABCDEF-12345

DELETE

/v1/devices/

b56248df6fd8b722d7dae0feae864fed/

registrations/pass.com.casgrain.mactech.

2013/ABCDEF-12345

DEMO

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Putting it all together

- Design pass
- Sign pass
- Send pass to user
- Modify pass
- Send push notification

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THANK YOU!

Now let’s build some passes