BEHAVIOURS IN IOS APPS

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WHAT IS BEHAVIOUR?

WHAT IS BEHAVIOUR?

- focuses on user interaction
 - implements specific role

WHAT BENEFITS DOES USING BEHAVIOURS BRING?

QUALITY & EFFECTIVNESS

QUALITY

- Cleaner code
- ► Easier to maintain
 - Tested
- Shared codebases

QUALITY

Avoiding Massive View Controllers by off-loading functionality into separate small classes.

Small classes are easier to maintain and modify.

QUALITY

Those classes tend not to have dependency on application logic, which means they can be re-used across different applications.

They are also easy to test.

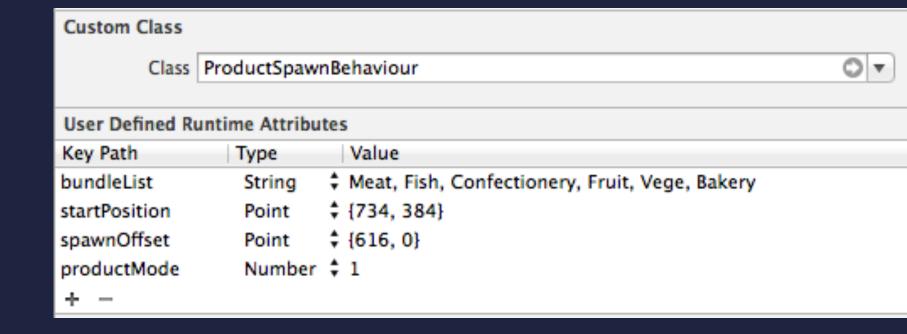
EFFECTIVENESS

- Non-Developers can modify application behaviour
 - Designers can tweak variables

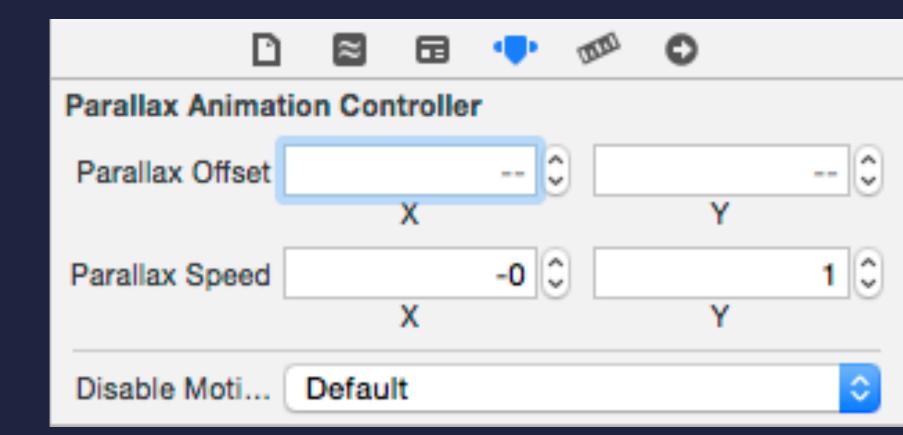
You can focus on new features instead of wasting your time tweaking parameters.

BUILDING BEHAVIOURS

RUNTIME ATTRIBUTES



INSPECTABLES WITH XCODE 6



BEHAVIOUR LIFETIME

- Objects created from interface builder are immediately released if there is no strong reference to them
 - This usually requires adding properties to view controllers

Not ideal because then removing a behaviour also requires removing that property

BEHAVIOUR LIFETIME

- We can leverage associated objects to reverse lifetime binding:
 - Behaviour will decide how long to keep itself alive
- Removing behaviour or adding new ones will NOT require modifying controller code.

```
- (void)bindLifetimeToObject:(id)object
{
  objc_setAssociatedObject(object, (__bridge void *)self, self, OBJC_ASSOCIATION_RETAIN_NONATOMIC);
}
- (void)releaseLifetimeFromObject:(id)object
{
  objc_setAssociatedObject(object, (__bridge void *)self, nil, OBJC_ASSOCIATION_RETAIN_NONATOMIC);
}
```

BEHAVIOUR EVENTS

BEHAVIOUR EVENTS

It's useful to be able inform controller that an event has occurred: eg. let view controller know that user selected an image

By making a Behaviour subclass of UlControl we are able to leverage iOS target-action pattern.

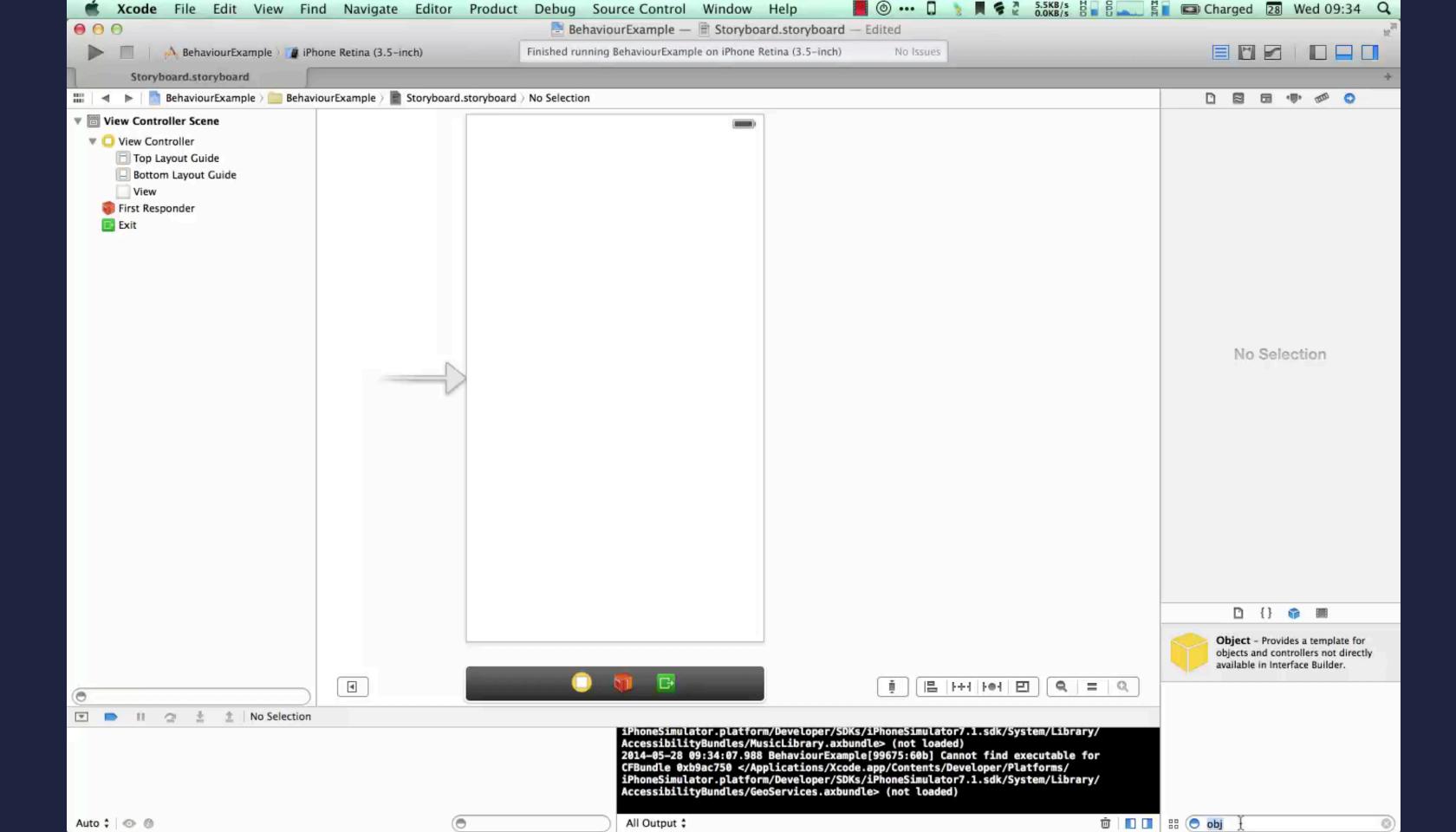
[self sendActionsForControlEvents:UIControlEventValueChanged];

SAMPLE BEHAVIOURS

- Animations
- Image picking
 - Drag & Drop
- Character limiter (think twitter)

Placeholders File's Owner i First Responder View

No Selection



CONCLUSION

- Cleaner code
- Reusability
- **Ease of changes**
- non-coders can help out

THANK YOU

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