Development Jump Start

	9:42 AM 🛛 😤 🧫		
<pre>(id)initWithFrame:(CGRect)frame { if (self = [super initWithFrame:frame]) {</pre>			
	<pre>// Initialization code UIImageView* img1 = [[UIImageView alloc] UIImageView* img2 = [[UIImageView alloc]</pre>		
	<pre>[self addSubview:img1]; [self addSubview:img2];</pre>		
,	[img1 release]; [img2 release];		
return self;			
void)	<pre>touchesBegan:(NSSet *)touches withEvent:</pre>		
[UT)	[UTView beginAnimations:nil_context:UTGraph:		

[UIView beginAnimations:nil context:UIGraph: [UIView setAnimationTransition:UIViewAnimat:

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When the second second

been in a professional developer for the last 18 years

- mostly windows
- c++, c#, Java, Python etc
- then, Aug 2008, decided to write and iPhone app -> Obj-C
- three weeks later was finishing my first app...





- ... in the app store since Sept 2008
- still maintaining coming up to v2
- no subliminal advertising
- not here to talk about that/
- here to talk about iPhone dev so what do we need?





iPhone API stack

[object method1]

XCode

Objective-C

Mac – great machines. Well built, durable, sleek, well integrated. XCode

iPhone APIs

Objective-C: Monotouch

- getting very good
- limitations esp. debugging
- not all bindings
- docs, tutorials, samples
- expensive (\$400 \$1000)



Opinion polarised

- ? learning hump,
 - modern features early
 - lacking some features we've got used to
- or is it? ...

C#	S Objective-C
Linq	Key-Value Coding/ Path
Extension methods	Categories
Delegates	Selectors
Dynamic keyword	Message-passing





Java









- closer look at the syntax...

[object method1]

Without the sq. brackets = Smalltalk in Smalltalk: everything an object (even primitives) - all operations are messages Obj-C is fusion of Smalltalk and C - type systems must co-exist -----return a value pass message to returned object pass arguments

pass returned object as argument

[object method1]

int i =[object method1]

[[object method1] method2]

[object method1:7]

[object method1:[object method2]]

Without the sq. brackets = Smalltalk in Smalltalk: everything an object (even primitives) - all operations are messages In Obj-C objects & primitives are different - C operators are retained -----return a value

pass message to returned object pass arguments pass returned object as argument

[object method1:7]

[circle setCenter:100 :100]

[circle setCenterAtX:100 y:100]

circle setCenterAtX:y:



closer look at arguments how to pass more than one? need colon - never see this in real code label to left of colon all labels (with colons) = method name - how do we declare? ...

-(void) setCenterAtX:(float)x y:(float)y;

-(void) setCenterAtX:(float) x y:(float) y
{
 // some code
}

what about memory management? ...

Memory

Circle* circle;

circle = [Circle alloc];

circle = [circle init];

Circle* circle = [[Circle alloc] init];

alloc, like malloc init, returns object (may differ) one line factory method? ... what about parameters?

Circle* circle = [[Circle alloc] initAtCenterX: 200 y:200];

Circle* circle = [[Circle alloc] initAtCenterX:200

y:200

withRadius:100];

[circle dealloc];

[circle release];

radius split over lines dealloc - implement, don't call release - ref counting ... retain counts - go over a little more...



- how do we create new classes? ...





- define class with @interface
- not the same as interface
- derived from NSObject
- code block
- "blow your mind" @end



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Now onto the meat of the presentation...