# Source Control Management in Xcode

Session 411 Eric Dudiak Xcode Software Engineer

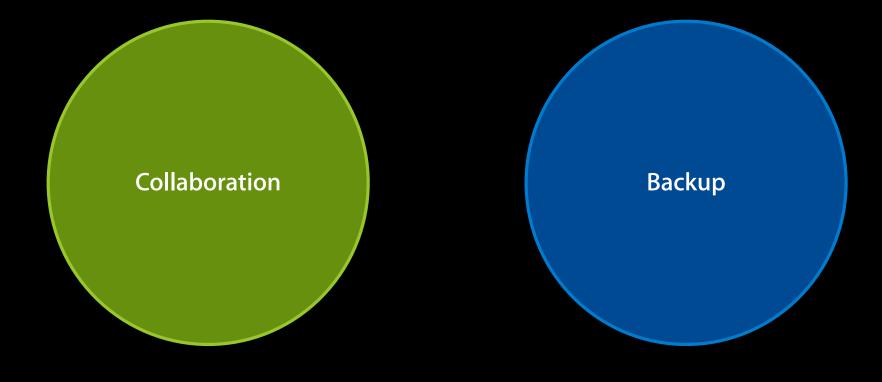
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Introduction

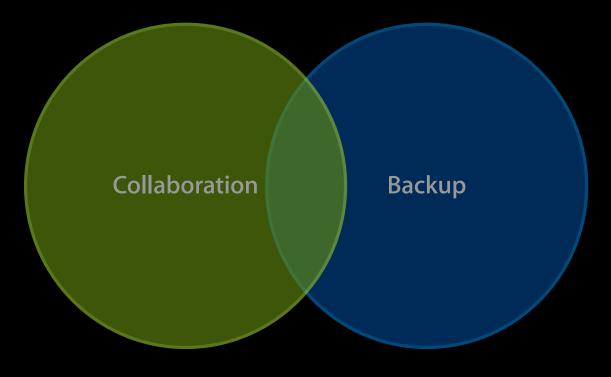
- Introduction
- Committing

- Introduction
- Committing
- Sharing your code

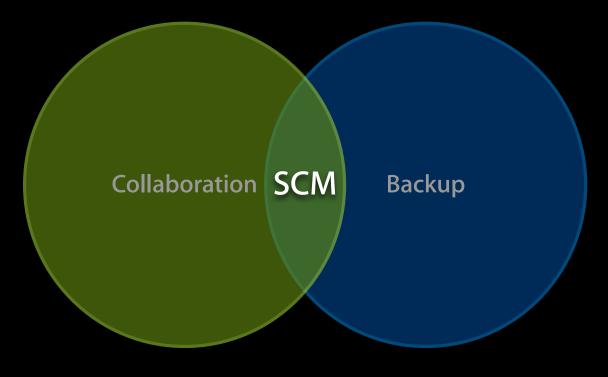
## **Introduction to Source Control**



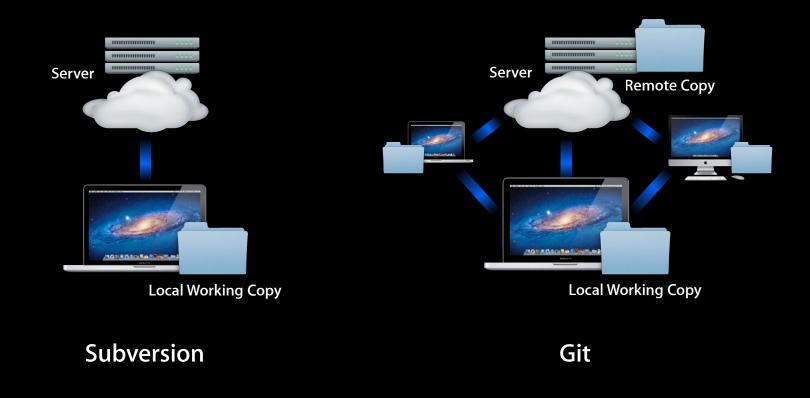
## **Introduction to Source Control**



### **Introduction to Source Control**



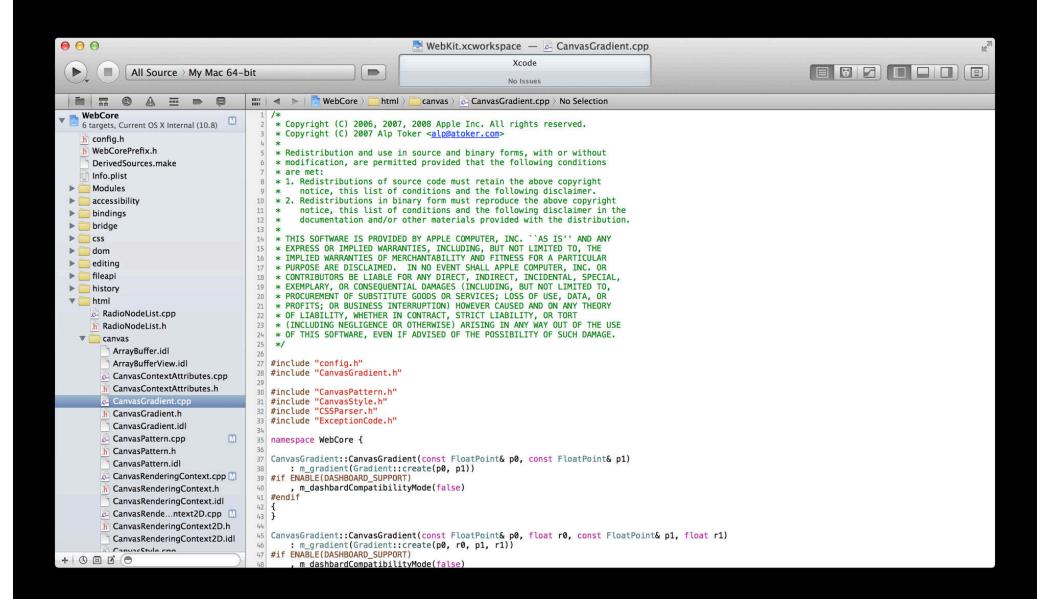
## Subversion and Git



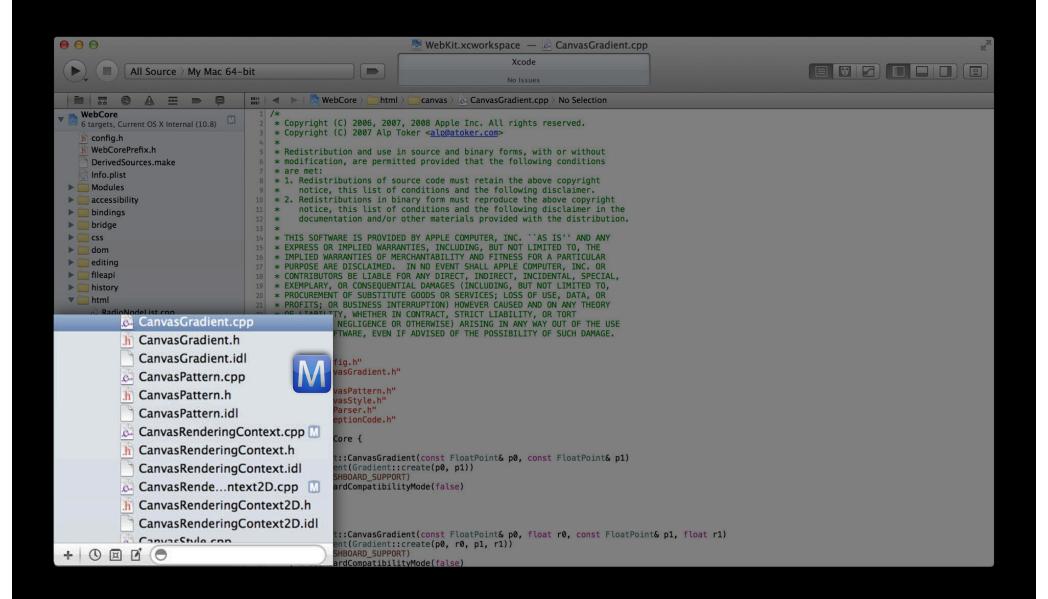
Editing

- Editing
- Viewing history

- Editing
- Viewing history
- Managing repositories



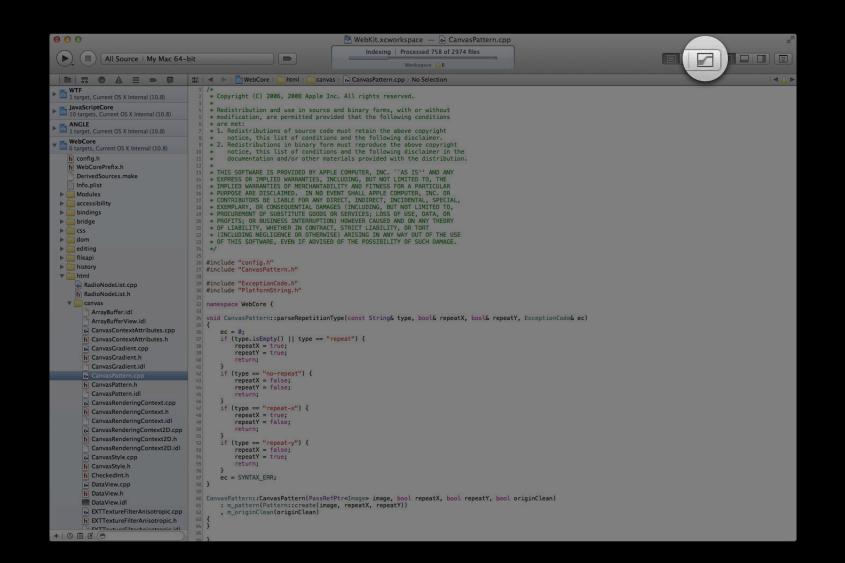
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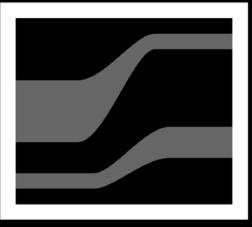






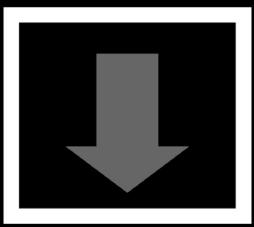
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history	26 #include "config.h"		
v html	27 #include "CanvasPattern.h" 28		
RadioNodeList.cpp	<pre>29 #include "ExceptionCode.h"</pre>		
RadioNodeList.h	<pre>30 #include "PlatformString.h"</pre>		
🔻 🧰 canvas	31 32 namespace WebCore {		
ArrayBuffer.idl	33		
ArrayBufferView.idl	<pre>34 void CanvasPattern::parseRepetit 35 {</pre>	tionType(const String& type, bool& repeatX, bool& repea	atY, ExceptionCode& ec)
CanvasContextAttributes.cpp	36 ec = 0;		
h CanvasContextAttributes.h	<pre>37 if (type.isEmpty()    type = 38 repeatX = true;</pre>	== "repeat") {	
CanvasGradient.cpp	39 repeatY = true;		
h CanvasGradient.h	40 return;		
CanvasGradient.idl	<pre>41 } 42 if (type == "no-repeat") {</pre>		
G CanvasPattern.cpp	43 repeatX = false;		
h CanvasPattern.h CanvasPattern.idl	44 repeatY = false;		
CanvasRenderingContext.cpp	45 return; 46 }		
CanvasRenderingContext.h	<pre>47 if (type == "repeat-x") {</pre>		
CanvasRenderingContext.idl	<pre>48 repeatX = true; 49 repeatY = false;</pre>		
GanvasRenderingContext2D.cpp	50 return;		
h CanvasRenderingContext2D.h	51 }		
CanvasRenderingContext2D.idl	<pre>52 if (type == "repeat-y") { 53 repeatX = false;</pre>		
G CanvasStyle.cpp	54 repeatY = true;		
h CanvasStyle.h	55 return; 56 }		
h CheckedInt.h	57 ec = SYNTAX ERR;		
🛱 DataView.cpp	58 }		
h DataView.h	59 60 CanvasPattern::CanvasPattern(Pas	ssRefPtr <image/> image, bool repeatX, bool repeatY, boo	l origin(lean)
DataView.idl	61 : m_pattern(Pattern::create(		( origine conv
EXTTextureFilterAnisotropic.cpp	62 , m_originClean(originClean)		
EXTTextureFilterAnisotropic.h	63 {		
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#### Comparison

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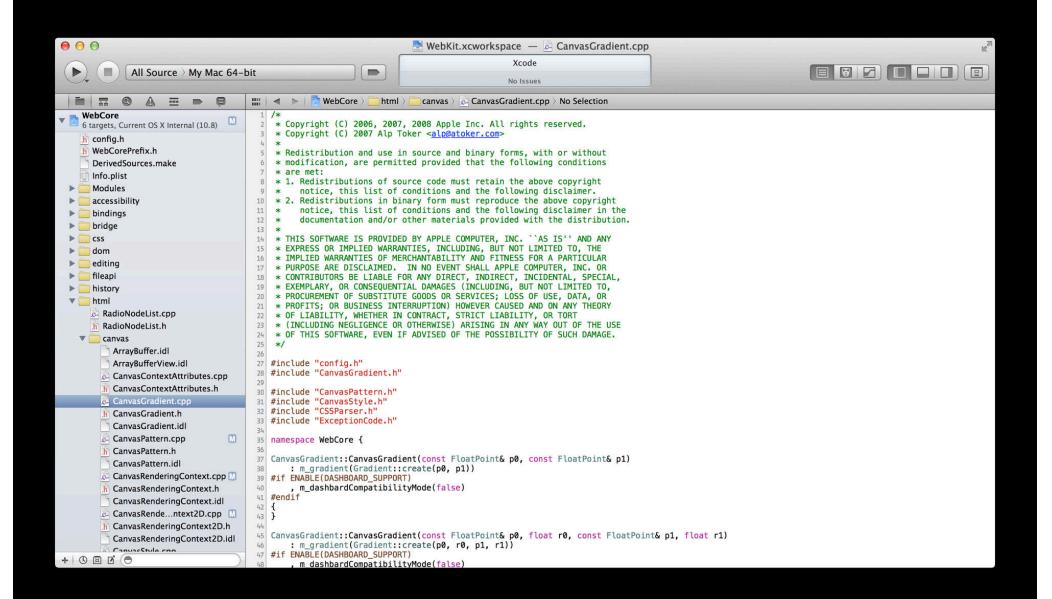
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<pre>iiii c-&gt;strokeRect(rect, lineWidth); didDraw(boundingRect);</pre>		darin commit-queue@webkit.org	Apr 28, 2006 Aug 27, 2010	
<pre>1157 } 1158 1159 void CanvasRenderingContext2D::setShadow(float widt)</pre>	h, float height, float blur)	darin Oops, these files were suppo	Mar 16, 2006 sed to go in.	
<pre>1160 { 1161 setShadow(FloatSize(width, height), blur, Color</pre>	::transparent):	darin@apple.com	May 15, 2012	
<pre>1142 } 1143 1144 1144 1144 1144 1144 1144 114</pre>		darin Oops, these files were suppo	Mar 16, 2006 sed to go in.	
<pre>1100 t RGBA32 rgba; 1100 if (!parseColorOrCurrentColor(rgba, color, canv.)</pre>	as()))	darin@apple.com	May 15, 2012	
<pre>1168 return; 1169 setShadow(FloatSize(width, height), blur, rgba)</pre>		chang.shu@nokia.com darin@apple.com	May 19, 2010 May 15, 2012	
<pre>1170 } 1171 1172 void CanvasRenderingContext2D::setShadow(float widt)</pre>	h, float height, float blur, float grayLevel)	darin Oops, these files were suppo	Mar 16, 2006 sed to go in.	
<pre>1173 { 1174 setShadow(FloatSize(width, height), blur, makeR</pre>	GBA32FromFloats(grayLevel, grayLevel, 1));	darin@apple.com	May 15, 2012	
<pre>1175 } 1176 1177 void CanvasRenderingContext2D::setShadow(float widt)</pre>	h, float height, float blur, const String& color, float alpha)	darin Oops, these files were suppo	Mar 16, 2006 sed to go in.	
1178 ( 1179 RGBA32 rgba;		chang.shu@nokia.com	May 19, 2010	
<pre>1180 if (!parseColorOrCurrentColor(rgba, color, canv.</pre>	as()))	andreas.kling@nokia.com	Oct 14, 2010	
<pre>1181 return; 1182 setShadow(FloatSize(width, height), blur, colori</pre>	HithOuserideAleba(reba aleba)).	chang.shu@nokia.com darin@apple.com	May 19, 2010 May 15, 2012	
1180 }	withoverrideAtpha(rgba, atpha));	darin	Mar 16, 2006	
1185 void CanvasRenderingContext2D::setShadow(float widt) 1186 {	h, float height, float blur, float grayLevel, float alpha)	Cops, these files were suppo	sed to go in.	
	GBA32FromFloats(grayLevel, grayLevel, grayLevel, alpha));	darin@apple.com	May 15, 2012	
1100 } 1189		darin Oops, these files were suppo	Mar 16, 2006 sed to go in.	
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1192 setShadow(FloatSize(width, height), blur, makeR	GBA32FromFloats(r, g, b, a));	darin@apple.com	May 15, 2012	
1191 }		darin	Mar 16, 2006	
<pre>1195 1195 void CanvasRenderingContext2D::setShadow(float widt) 1296 {</pre>	h, float height, float blur, float c, float m, float y, float k, float a)	Oops, these files were suppo	sed to go in.	
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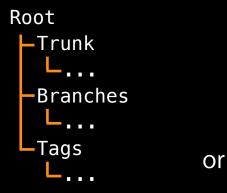
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<pre>54 55 c-&gt;strokeRect(rect, lineWidth);</pre>			June 4, 2012		
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<pre>6 {     RGBA32 rgba;     If (!parseColorOrCurrentColor(rgba, colo         return;         setShadow(FloatSize(width, height), blur;     } }</pre>			Patch by Sheriff Bot < <u>webkit.review.bot@omail.com</u> > on 2012-06-04		
0 }	tur e <del>a</del> utor a di		Source/WebCore:		
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void CanvasRenderingContext2D::setShadow(flow)	at width, float height, float bl	ur, float r, float g, float b, float a)	https://bugs.webkit.org/show_bug.cgi/ id=66574		
<pre>setShadow(FloatSize(width, height), blur, } </pre>	<pre>, makeRGBA32FromFloats(r, g, b,</pre>	a));	Patch by Justin Novosad <junov@chromium.org> on 2012-06-04</junov@chromium.org>		
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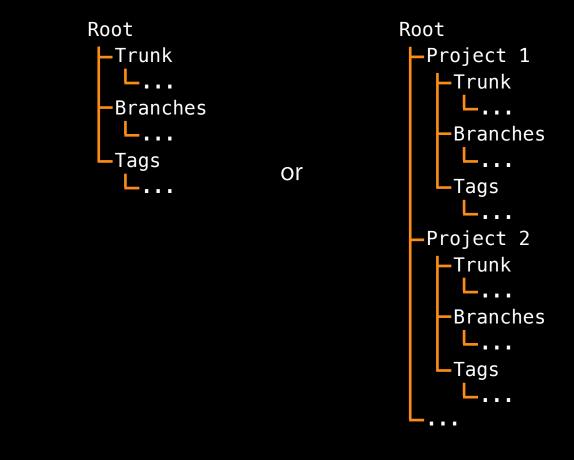


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h CanvasGradient.h	32 #include "CSSParser.h" 33 #include "ExceptionCode.h"	
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CanvasPattern.cpp	35 namespace WebCore {	
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CanvasRenderingContext.cpp 🛄	39 #if ENABLE(DASHBOARD_SUPPORT)	
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# Demo

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<pre>285 286 - (void)layoutSubviews { 287 288 289 289 289 290 UIFont *textFieldFont = [UIFont boldSystemFontOfSize:64]; 291 292 CGRect rect = [self bounds]; 293 rect = CGRectMake(rect.origin.x, rect.origin.y, rect.size.width,         ); 294 rect.origin.y = CGRectGetMidY(rect) - ([textFieldFont lineHeight         _textField = [[UITextField alloc] initWithFrame:rect]; 295 296 [_textField setText:[NSString stringWithFormat:@"%d", _tileIdent 297 [_textField setTextColor:[UIColor colorWithWhite:1.0 alpha:0.65] 299 [_textField setTextColor:[UIColor colorWithWhite:1.0 alpha:0.65] 299 [_textField setTextAlignment:NSTextAlignmentCenter]; 201 [_textField.layer.shadowRadius = 1.0; 202 textField.layer.shadowOffset = CGSizeMake(0, 0); 203 _textField.layer.shadowOpacity = 1.0; 204 _setField.layer.shadowOpacity = 1.0; 205 [self addSubview:_textField]; 206 [self addSubview:_textField]; 207 [self addSubview:_textField]; 208 [self addSubview:_textField]; 209 [self addSubview:_textField]; 200 [self addSubview:_textField]; 200 [self addSubview:_textField]; 201 [self addSubview:_textField]; 202 [self addSubview:_textField]; 203 [self addSubview:_textField]; 204 [self addSubview:_textField]; 205 [self addSubview:_textField]; 205 [self addSubview:_textField]; 206 [self addSubview:_textField]; 207 [self addSubview:_textField]; 208 [self addSubview:_textField]; 209 [self addSubview:_textField]; 200 [self addSubview:_textField]; 200 [self addSubview:_textField]; 201 [self addSubview:_textField]; 202 [self addSubview:_textField]; 203 [self addSubview:_textField]; 204 [self addSubview:_textField]; 205 [se</pre>	t]/2.0);	<pre>); 277 rect.origin.y = CGRectGetMidY 276 _textField = [[UITextField al 279 ] [_textField setText:[NSString 280 [_textField setTextColor:[UIC 282 [_textField setFont:textField 283 [_textField setTextAlignment: 284 [_textField setEnabled:NO]; 285 [_self addSubview:_imageView]; 286 [_self addSubview:_textField]; 288 [_self bringSubviewToFront:_te 289 ]</pre>	<pre>n.x, rect.origin.y, rect.size.width, rect.size.height '(rect) - ([textFieldFont lineHeight]); loc] initWithFrame:rect]; olor lightTextColor]]; Font]; UITextAlignmentCenter];</pre>
<pre>309 [self bringSubviewToFront:_textField]; 310</pre>		<pre>291 - (void)drawRect:(CGRect)rect {</pre>	

#### • Edit

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<pre>285 286 - (void)layoutSubviews { 287 288 [super layoutSubviews]; 289 UIFont *textFieldFont = [UIFont boldSystemFontOfSize:64];</pre>		267 } 268 - (void)layoutSubvie 270 [super layoutSub	anna anna 第一员员
<pre>CGRect rect = [self bounds]; CGRect rect = [self bounds]; rect = CGRectMake(rect.origin.x, rect.origin.y, rect.size.widt ); 294 rect.origin.y = CGRectGetMidY(rect) - ([textFieldFont lineHeig _textField = [[UITextField alloc] initWithFrame:rect]; 296 [_textField setText:[NSString stringWithFormat:@"%d", _tileIde</pre>	ht]/2.0);	<pre>273 UIFont *textFiel 274 275 CGRect rect = [s rect = CGRectMak ); 277 rect.origin.y =</pre>	<pre>dFont = [UIFont systemFontOfSize:36]; elf bounds]; e(rect.origin.x, rect.origin.y, rect.size.width, rect.size.height CGRectGetMidY(rect) - ([textFieldFont lineHeight]); ITextField alloc] initWithFrame:rect];</pre>
<pre>298 [_textField setTextColor: [JIJColor colorWithWhite:1.0 alpha:0.6 299 [_textField setFont:textFieldFont]; 300 [_textField setTextAlignment:NSTextAlignmentCenter]; 301 [_textField setEnabled:NO]; 302</pre>	5)];	280[_textField set]281[_textField set]282[_textField set]	<pre>iext:[NSString stringWithFormat:@"%ld", _tileIdentifier]]; extColor:[UIColor lightTextColor]]; iont:textFieldFont]; extAlignment:UITextAlignmentCenter]; inabled:N0];</pre>
<pre>303 _textField.layer.shadowRadius = 1.0; 304 _textField.layer.shadowOffset = CGSizeMake(0, 0); 305 _textField.layer.shadowOpacity = 1.0; 306 307 [self addSubview: imageView];</pre>		285 286 [self addSubview 287 [self addSubview 288 [self bringSubvi 289 }	
<pre>308 [self addSubview:_textField]; 309 [self bringSubviewToFront:_textField];</pre>		290 291 - (void)drawRect:(CG	Rect)rect {

#### • Edit

• View history

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► ■ My > iPad 6.0 Simulator (overrides Base SDK) ■	Build Succeeded   5/30,	12 at 1:08 PM	
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<pre>285 286 - (void)layoutSubviews { 287 288 289 290 UIFont *textFieldFont = [UIFont boldSystemFontOfSize:64]; 291 292 CGRect rect = [self bounds];</pre>		274	<pre>[UIFont systemFontOfSize:36];</pre>
<pre>293 rect = CGRectMake(rect.origin.x, rect.origin.y, rect.size.w: ); 294 rect.origin.y = CGRectGetMidY(rect) - ([textFieldFont lineHe _textField = [[UITextField alloc] initWithFrame:rect]; 296</pre>	sight]/2.0);	); 277 rect.origin.y = CGRect 278 _textField = [[UITextF	unds]; .origin.x, rect.origin.y, rect.size.width, rect.size.height GetMidY(rect) – ([textFieldFont lineHeight]); ield alloc] initWithFrame:rect];
<pre>297 [_textField setText:[NSString stringWithFormat:@"%d", _tile) 298 [_textField setTextColor:[UIColor colorWithWhite:1.0 alpha;( 299 [_textField setFont:textFieldFont]; 300 [_textField setTextAlignment:NSTextAlignmentCenter]; 301 [_textField setEnabled:NO]; 302</pre>	dentifier];	281 [_textField setTextCol 282 [_textField setFont:te	<pre>gnment:UITextAlignmentCenter];</pre>
<pre>303 _textField.layer.shadowRadius = 1.0; 304 _textField.layer.shadowOffset = CGSizeMake(0, 0); 305 _textField.layer.shadowOpacity = 1.0; 306 [self addSubview:_imageView]; 308 [self addSubview:_textField]; 309 [self bringSubviewToFront:_textField];</pre>		<pre>286 [self addSubview:_imag 287 [self addSubview:_text 288 [self bringSubviewToFr 289 } 290 290 - (void)drawRect:(CGRect)r</pre>	Field]; ont:_textField];

#### • Edit

- View history
- Manage repositories

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My ) iPad 6.0 Simulator (overrides Base SDK)	Build Succeeded   5/	30/12 at 1:08 PM	
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<pre>285 286 - (void)layoutSubviews { 287 288 [super layoutSubviews]; 289 290 UIFont *textFieldFont = [UIFont boldSystemFontOfSize:64];</pre>		267 } 268 269 - (void)layoutSu 270 271 [super layou 272	
<pre>291 292 293 293 294 294 rect.origin.y = CGRectGetMidY(rect) - ([textFieldFont lineHei 295 _textField = [[UITextField alloc] initWithFrame:rect];</pre>		273 UIFont *text 274 275 CGRect rect 276 rect = CGRec ); 277 rect.origin.	<pre>FieldFont = [UIFont systemFontOfSize:36]; = [self bounds]; :tMake(rect.origin.x, rect.origin.y, rect.size.width, rect.size.height y = CGRectGetMidY(rect) - ([textFieldFont lineHeight]);</pre>
<pre>296 297 [_textField setText:[NSString stringWithFormat:@"%d", _tileId 298 [_textField setTextColor:[UIColor colorWithWhite:1.0 alpha:0. 299 [_textField setFont:textFieldFont]; 300 [_textField setTextAlignment:NSTextAlignmentCenter]; 301 [_textField setEnabled:N0]; 302</pre>		279 280 [_textField 281 [_textField 282 [_textField 283 [_textField	<pre>[[UITextField alloc] initWithFrame:rect]; setText:[NSString stringWithFormat:@"%ld", _tileIdentifier]]; setTextColor:[UIColor lightTextColor]]; setTextAlignment:UITextAlignmentCenter]; setEnabled:NO];</pre>
<pre>303 _textField.layer.shadowRadius = 1.0; 104 _textField.layer.shadowOffset = CGSizeMake(0, 0); 305 _textField.layer.shadowOpacity = 1.0; 306 307 [self addSubview:_imageView]; 308 [self addSubview:_textField]; 309 [self bringSubviewToFont:_textField]; 309 [self bringSubviewToFont:_textField]; 309 [self bringSubviewToFont:_textField]; 309 [self bringSubviewToFont:_textField]; 309 [self bringSubviewToFont:_textField]; 300 [self bringSubvi</pre>		285 286 [self addSub 287 [self addSub	<pre>view:_imageView; view:_textField]; subviewToFront:_textField];</pre>

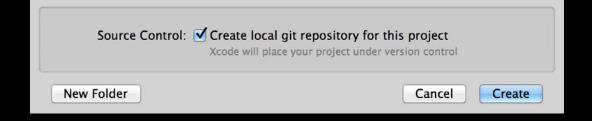
Kevin Lindeman Xcode Software Engineer

• Source control for new projects

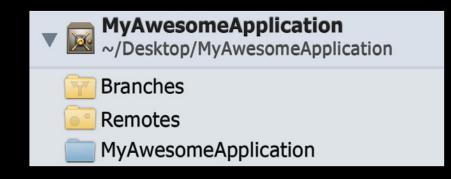
- Source control for new projects
- What is new while committing

- Source control for new projects
- What is new while committing
- Ignoring files

• Managing your project with source control



- Managing your project with source control
- Configuring remotes



- Managing your project with source control
- Configuring remotes
- Pushing changes

	<b>Choose the remote to which to push changes.</b> The remote must be online and reachable for the push operation to succeed.			
	Remote: 📔 origi	te: 📴 origin/master		
Repositor	y is online	Cancel	Push	

# Demo

• Placing your project under source control

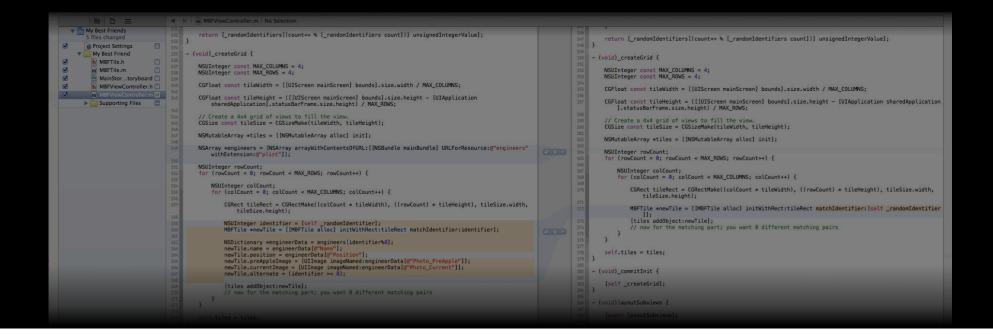
- Placing your project under source control
- Configuring remotes

- Placing your project under source control
- Configuring remotes
- Pushing changes

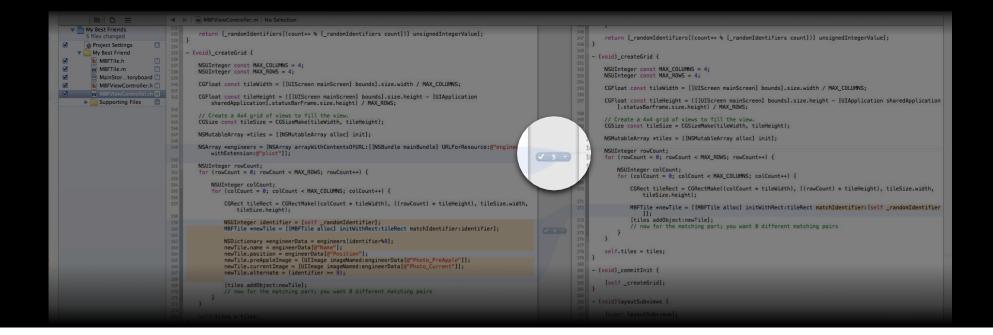
#### • Better change detection

	MBFViewController.m ) No Selection			
Wy Best Friends 5 files changed	<pre>131 132 return [_randomIdentifiers[(count++ % [_randomIdentifiers count])] unsignedIntegerValue]; 133 133 134 135 135 135 135 135 135 135 135 135 135</pre>		146 147 148	return [_randomIdentifiers[(count++ % [_randomIdentifiers count])] unsignedIntegerValue];
S files changed	<pre>interverse = (interverse = [interverse] to contryly unsignedunced interverse interverse = (interverse);</pre>		1464 1469 1501 1512 1523 1535 1555 1556 1556 1557 1556 1557 1556 1600 1601 1602 1603 1604 1604 1605 1605 1605 1607 1707 1775 1767 1777 1778 1800 1777 1777 1778 1800 1802 1777 1778 1802 1777 1778 1803 1803 1803 1805 1805 1805 1805 1805 1805 1805 1805	<pre>} - {void]_createGrid { NSUInteger const MAX_COLUMNS = 4; NSUInteger const MAX_ROWS = 4; CGFloat const tileWidth = [[UIScreen mainScreen] bounds].size.width / MAX_COLUMNS; CGFloat const tileWidth = [[UIScreen mainScreen] bounds].size.height - [UIApplication sharedApplication ].statusBarframe.size.height) / MAX_MONS; CGFloat const tileWidth, tileWeight, tileWeight); NSMutableArray +tiles = [[NSMutableArray alloc] init]; NSUInteger conCount; for (rowCount = 8; rowCount &lt; MAX_ROWS; rowCount++) {     NSUInteger colCount;     for (colCount = 9; colCount &lt; MAX_COLUMNS; colCount++) {         CGRect tileRect = CGRectMake((colCount + tileWidth), ((rowCount) + tileHeight), tileSize.width,         tileSize.height);     MBFTile +newTile = [[MBFTIle alloc] initWithRect;tileRect matchIdentifier;[self _randomIdentifier         ];         files addbject:newTile];         f/ row for the matching part; you want 8 different matching pairs         }         self.tiles = tiles;     }         condition         (void)_commitInit {             [self _createGrid];         }         }     } } </pre>
	<pre>275 376 self.tiles = tiles; 375 </pre>			[super layoutSubviews];

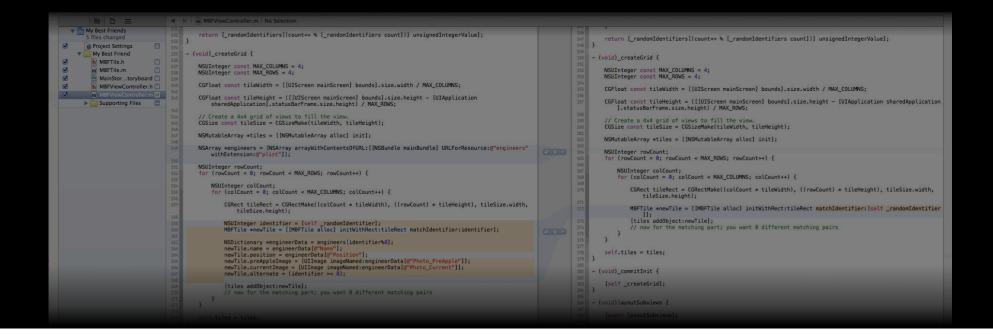
- Better change detection
- Skip or discard individual changes



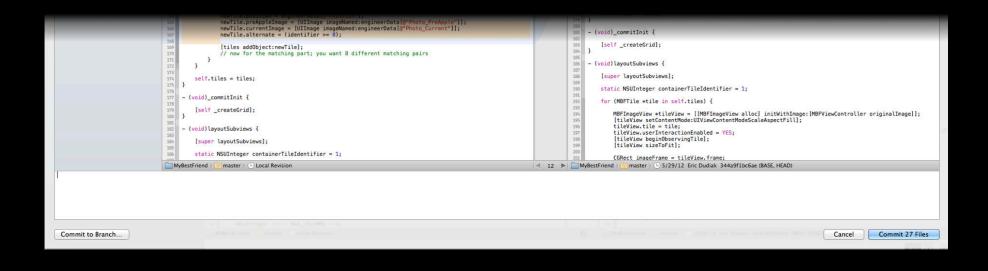
- Better change detection
- Skip or discard individual changes



- Better change detection
- Skip or discard individual changes



- Better change detection
- Skip or discard individual changes



- Better change detection
- Skip or discard individual changes
- Commit to a new branch

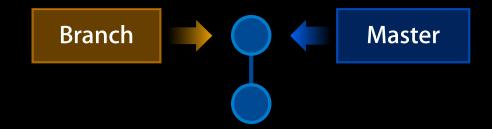
	<pre>newTite:perchaleTage = [UITage ingeNamed:engineerData[@"Photo_PreApple"]]; newTite.currentTage = [UITage ingeNamed:engineerData[@"Photo_Current"]]; newTite.currentTage = [UITage ingeNamed:engineerData[@"Photo_Current"]]; newTite.atternate = (identifier &gt;= 8); [tites addObject:newTite]; // now for the matching part; you want 8 different matching pairs }; self.tites = tites; self.tites = tites; self.currentTage = [UITage ingeNamed:engineerData[@"Photo_PreApple"]]; self.tites = tites; self.tites = tites; self.tites = tites; self.currentTage = [UITage ingeNamed:engineerData[@"Photo_PreApple"]]; self_createGrid]; self_createGrid]; static MSUInteger containerTiteIdentifier = 1;</pre>	<pre>/ (void)_commitInit {     [self _createGrid];     ///     [super layoutSubviews {     [super layoutSubviews];     static NSUInteger containerTileIdentifier = 1;     for (MBFTile +tile in self.tiles) {         MBFTmageView +tileView = [MBFImageView alloc] initWithImage: [MBFViewController originalImage]];         [tileView_setContentHodeScaleAspectFill;         tileView.userIntersionEnabled = YE;         tileView_userIntersionEnabled = YE;         tileView_sizeToFitl;         tileView_sizeToFitl;         tileView_sizeToFitl;         tileView_sizeToFitl;         tileView = tileView.frame;     } }</pre>
Commit to Branch	MyBestFriend ) 🖓 master ) 🕒 Local Revision	I2 Description (Cancel) Commit 27 Files

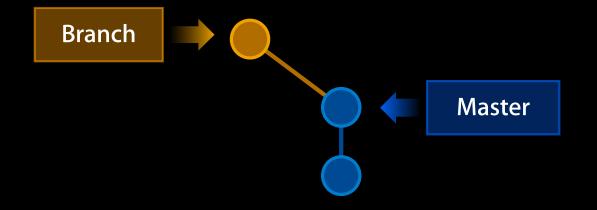
- Better change detection
- Skip or discard individual changes
- Commit to a new branch

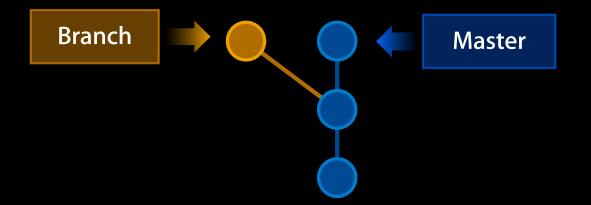
1	<pre>newTite.predpicting = [UIIngg imgeNamedrengineerData[@"Photo_PreApple"]; newTite.currentImage = [UIIngg imgeNamedrengineerData[@"Photo_Current"]; newTite.currentImage = [UIIngg imgeNamedrengineerData[@"Photo_Current"]; newTite.alternate = (identifier &gt;= 0); [tites addObject:newTite]; } } is elf.tites = tites; } is elf.tites = tites; } is elf.tites = tites; if [self_createGrid]; if [self_createGrid]; if [super layoutSubviews { [super layoutSubviews]; is static NSUInteger containerTiteIdentifier = 1; /// MyBestFriend &gt; O Local Revision</pre>	<pre></pre>
Commit to Branch		Cancel Commit 27 Files

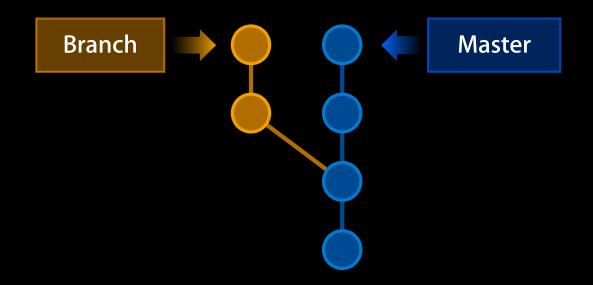
	MBFViewController.m ) No Selection		
🔻 📉 My Best Friends		1	146
5 files changed	<pre>132 return [_randomIdentifiers[(count++ % [_randomIdentifiers count])] unsignedIntegerValue]; 133 }</pre>		<pre>147 return [_randomIdentifiers[(count++ % [_randomIdentifiers count])] unsignedIntegerValue];</pre>
Project Settings	134 135 - (void)_createGrid {		148 }
Wy Best Friend	135 - (VOLO)_CreateGrid ( 136		150 - (void)_createGrid {
MBFTile.m	<pre>137 NSUInteger const MAX_COLUMNS = 4; 138 NSUInteger const MAX_ROWS = 4;</pre>		151 152 NSUInteger const MAX_COLUMNS = 4;
MainStortoryboard	139		153 NSUInteger const MAX_ROWS = 4;
MBFViewController.h	<pre>140 CGFloat const tileWidth = [[UIScreen mainScreen] bounds].size.width / MAX_COLUMNS; 141</pre>		<pre>154 155 CGFloat const tileWidth = [[UIScreen mainScreen] bounds].size.width / MAX_COLUMNS;</pre>
MBFViewController.m 🕅	142 CGFloat const tileHeight = ([[UIScreen mainScreen] bounds].size.height - [UIApplication		156
Supporting Files	sharedApplication].statusBarFrame.size.height) / MAX_ROWS;		157 CGFloat const tileHeight = ([[UIScreen mainScreen] bounds].size.height - [UIApplication sharedApplication ].statusBarFrame.size.height) / MAX_ROWS;
	144 // Create a 4x4 grid of views to fill the view.		158
	<pre>145 CGSize const tileSize = CGSizeMake(tileWidth, tileHeight); 146</pre>		<pre>159 // Create a 4x4 grid of views to fill the view. 160 CGSize const tileSize = CGSizeMake(tileWidth, tileHeight);</pre>
	<pre>147 NSMutableArray *tiles = [[NSMutableArray alloc] init];</pre>		<pre>161 162 NSMutableArray *tiles = [[NSMutableArray alloc] init];</pre>
	148 149 NSArray *engineers = [NSArray arrayWithContentsOfURL:[[NSBundle mainBundle] URLForResource:@"engineers"	-	163
	withExtension:@"plist"]];	V 5 ··	<pre>10% NSUInteger rowCount; 105 for (rowCount = 0; rowCount &lt; MAX_ROWS; rowCount++) {</pre>
	150 151 NSUInteger rowCount;		166
	<pre>152 for (rowCount = 0; rowCount &lt; MAX_ROWS; rowCount++) {</pre>		<pre>167 NSUInteger colCount; 168 for (colCount = 0; colCount &lt; MAX_COLUMNS; colCount++) {</pre>
	153 154 NSUInteger colCount;		169
	<pre>155 for (colCount = 0; colCount &lt; MAX_COLUMNS; colCount++) {</pre>		170 CGRect tileRect = CGRectMake((colCount * tileWidth), ((rowCount) * tileHeight), tileSize.width, tileSize.height);
	<pre>156 157 CGRect tileRect = CGRectMake((colCount * tileWidth), ((rowCount) * tileHeight), tileSize.width,</pre>		171
	tileSize.height);	1	<pre>172 MBFTile *newTile = [[MBFTile alloc] initWithRect:tileRect matchIdentifier:[self _randomIdentifier ]];</pre>
	<pre>159 NSUInteger identifier = [self _randomIdentifier];</pre>	1 1	173 [tiles addObject:newTile];
	<pre>160 MBFTile *newTile = [[MBFTile alloc] initWithRect:tileRect matchIdentifier:identifier]; 101</pre>	000	<pre>174 // now for the matching part; you want 8 different matching pairs 175 }</pre>
	<pre>162 NSDictionary *engineerData = engineers[identifier%8];</pre>		176 }
	<pre>163 newTile.name = engineerData[@"Name"]; 184 newTile.position = engineerData[@"Position"];</pre>		178 self.tiles = tiles;
	<pre>105 newTile.preAppleImage = [UIImage imageNamed:engineerData[@"Photo_PreApple"]];</pre>		179 } 180
	<pre>106 newTile.currentImage = [UIImage imageNamed:engineerData[@"Photo_Current"]]; 107 newTile.alternate = (identifier &gt;= 8);</pre>		<pre>181 - (void)_commitInit {</pre>
	168		<pre>182 183 [self_createGrid];</pre>
	<pre>169 [tiles addObject:newTile]; 170 // now for the matching part; you want 8 different matching pairs</pre>		184 }
	171 } 172 }		185 186 - (void)layoutSubviews {
	173		
	17% self.tiles = tiles; 175 }		<pre>188 [super layoutSubviews]; 189</pre>
	176		<pre>190 static NSUInteger containerTileIdentifier = 1; 191</pre>
	177 - (void)_commitInit {		<pre>192 for (MBFTile *tile in self.tiles) {</pre>
	179 [self _createGrid];		<pre>193 194 MBFImageView *tileView = [[MBFImageView alloc] initWithImage:[MBFViewController originalImage]];</pre>
	180 } 181		<pre>195 [tileView setContentMode:UIViewContentModeScaleAspectFill];</pre>
	192 - (void)layoutSubviews {		<pre>106 tileView.tile = tile; 197 tileView.userInteractionEnabled = YES;</pre>
	<pre>183 184 [super layoutSubviews];</pre>		<pre>198 [tileView beginObservingTile];</pre>
	<pre>185 186 static NSUInteger containerTileIdentifier = 1;</pre>		199 [tileView sizeToFit]; 200
			201 CGRect imageFrame = tileView.frame;
1	MyBestFriend ) Charles Control	⊲ 12 ▶	MyBestFriend / 🚰 master / 🕒 5/29/12 Eric Dudiak 344a9f1bc6ae (BASE, HEAD)
	ter Well-tames much Mid ThioMA a A		
Commit to Branch			Cancel Commit 27 Files
Commit to Branch			Cancel Commit 27 Piles

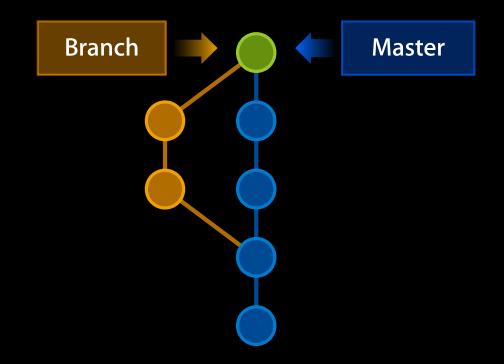












# Demo

• Better change detection

- Better change detection
- Skip or discard individual changes

- Better change detection
- Skip or discard individual changes
- Commit to a new branch

# **Ignoring Files**

## **Ignoring Files**

• Why?

## **Ignoring Files**

- Why?
- What to ignore?

## **Ignoring Files**

- Why?
- What to ignore?
- What if I committed those already?

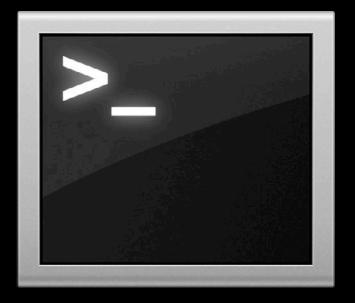
- Finder settings
  - .DS\_Store

- Finder settings
  - .DS\_Store
- Window geometry
  - UserInterface.xcuserstate

- Finder settings
  - .DS\_Store
- Window geometry
  - UserInterface.xcuserstate
- Private schemes and breakpoints
  - \*.xcuserdatad

#### **XCrun** Used to run Xcode command line tools

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Used to run Xcode command line tools

# lgnoring Files git

## Ignoring Files git

Per-repository

Place a .gitignore file at the root of your git working copy

.DS\_Store UserInterface.xcuserstate

## Ignoring Files git

Per-repository

Place a .gitignore file at the root of your git working copy

.DS\_Store
UserInterface.xcuserstate

• Globally

Create ~/.gitignore\_global

xcrun git config --global core.excludesfile ~/.gitignore\_global

• Globally

- Globally
  - Edit ~/.subversion/config

- Globally
  - Edit ~/.subversion/config
  - Add or modify the global-ignores setting

- Globally
  - Edit ~/.subversion/config
  - Add or modify the global-ignores setting

global-ignores = .DS\_Store UserInterface.xcuserstate

• In Terminal

In Terminal

cd <path to working copy>

• In Terminal

cd <path to working copy>
xcrun [git|svn] rm <relative path to file>

#### • In Terminal

cd <path to working copy>
xcrun [git|svn] rm <relative path to file>
xcrun [git|svn] commit -m "Removing unneeded files"

#### In Terminal

cd <path to working copy>
xcrun [git|svn] rm <relative path to file>
xcrun [git|svn] commit -m "Removing unneeded files"

• Setup ignore files

• Source control for new projects

- Source control for new projects
- What is new when committing

- Source control for new projects
- What is new when committing
- Ignore files

# **Sharing Your Code**

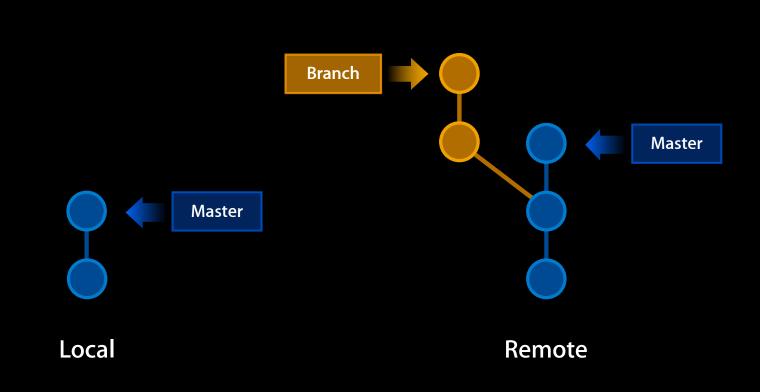
**Eric Dudiak** Xcode Software Engineer

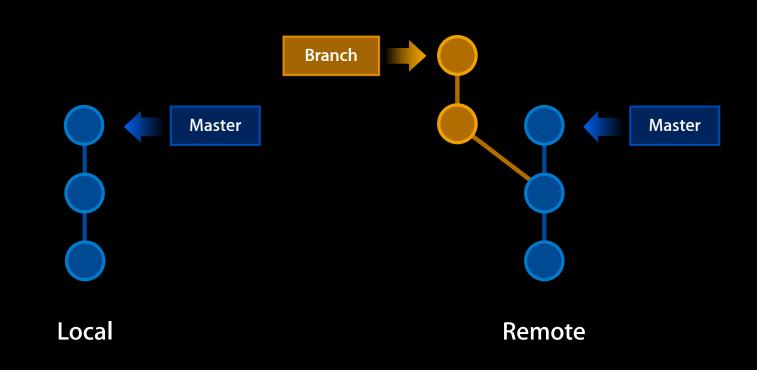
• Pull and update

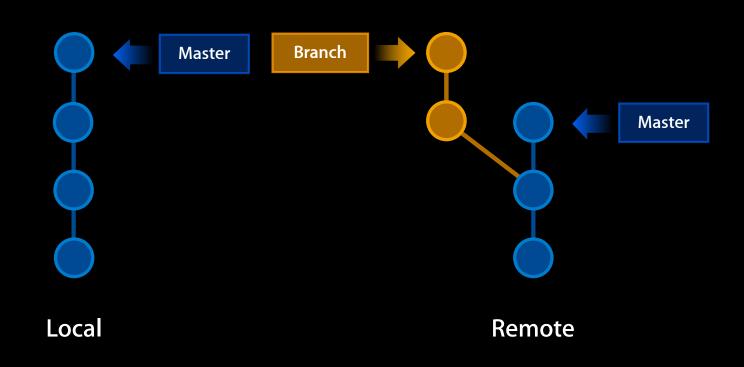
- Pull and update
- Merging branches

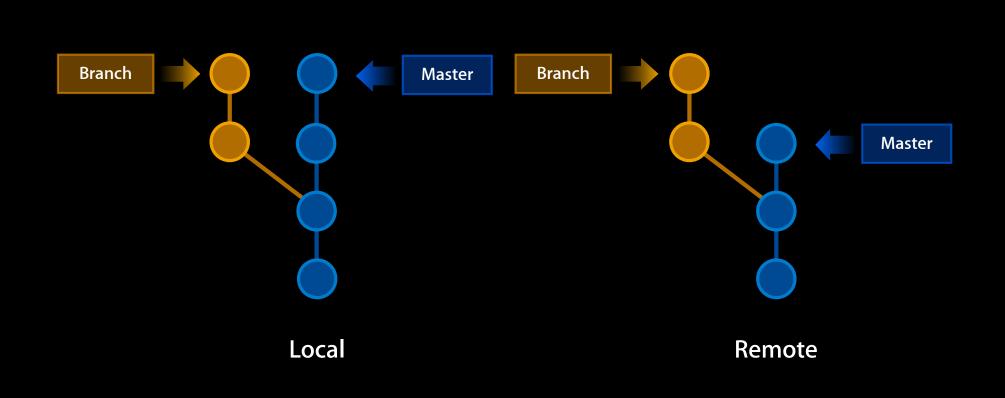
- Pull and update
- Merging branches
  - Resolving conflicts

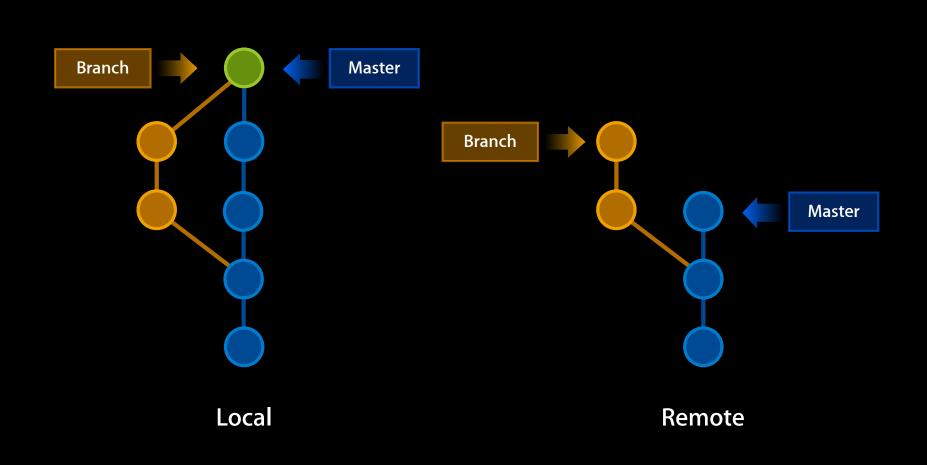
- Pull and update
- Merging branches
  - Resolving conflicts
- Push

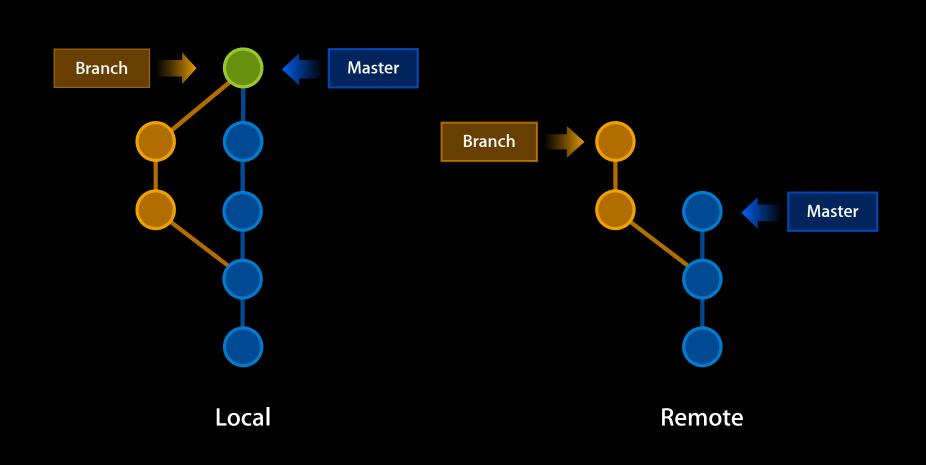


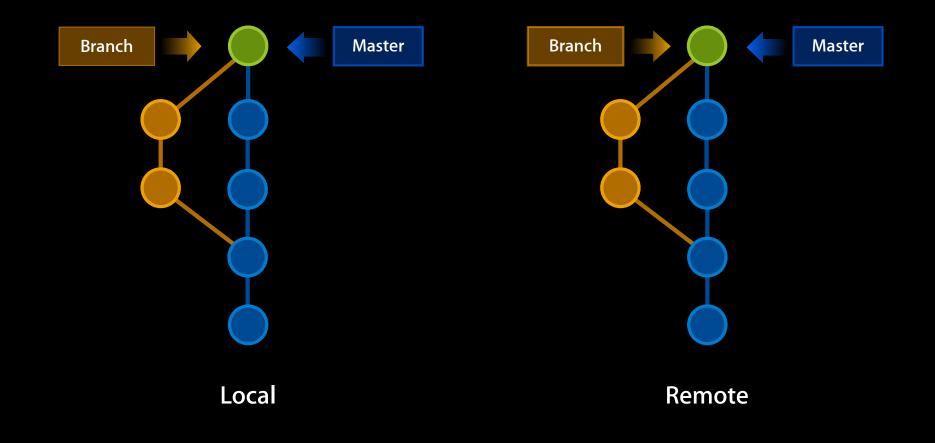












# Demo

• Work with multiple repositories

- Work with multiple repositories
- Resolve conflicts

- Work with multiple repositories
- Resolve conflicts
  - Update

- Work with multiple repositories
- Resolve conflicts
  - Update
  - Merge

- Work with multiple repositories
- Resolve conflicts
  - Update
  - Merge
- Push

#### **More Information**

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#### Labs

Xcode Lab

Developer Tools Lab Ongoing

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