Continuous Integration with Xcode 5

Session 412

Andrew Nesbitt
Software Engineering Manager, OS X Server

These are confidential sessions—please refrain from streaming, blogging, or taking pictures

Building Better Apps

Building Better Apps

Using continuous integration

Introduction

- Why continuous integration?
  - Terminology refresher
- Explore the Xcode service
  - Configuring OS X Server
  - Bots in Xcode 5
  - Web App and Scoreboard
- Best practices

Why Continuous Integration?

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- Testing on multiple OS versions and hardware models

Why Continuous Integration?

- Testing on multiple OS versions and hardware models
- Build, analyze, and test your project often

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- Gather build and test history for your project

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- Testing on multiple OS versions and hardware models
- Build, analyze, and test your project often
- Catch problems quickly and automatically
- Let a server do the heavy-lifting
- Gather build and test history for your project
- Easily distribute builds to your team

Terminology

Terminology

Scheme

Recipe for building your project

Terminology

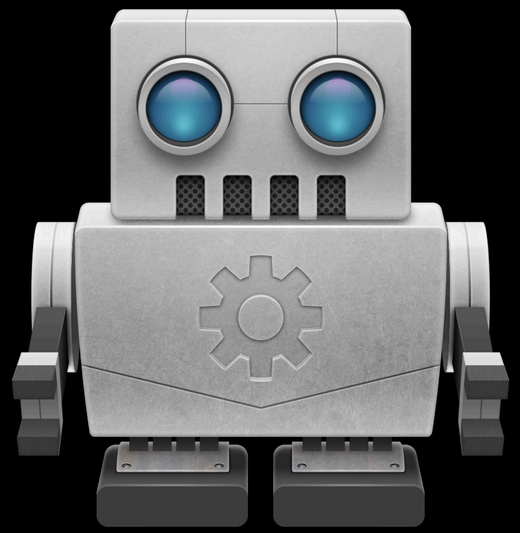
Scheme

Recipe for building your project

Terminology

Scheme

Recipe for building your project



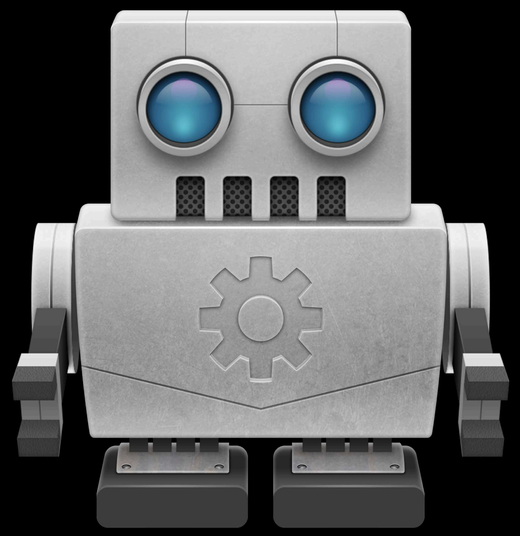
Bot

Analyze, build, test, and archive on a schedule

Terminology

Scheme

Recipe for building your project



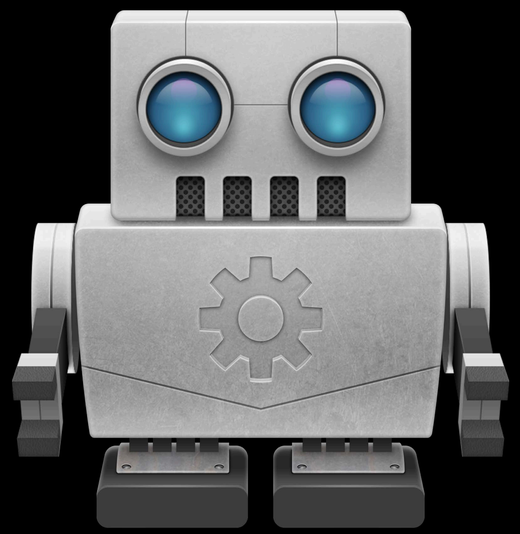
Bot

Analyze, build, test, and archive on a schedule

Integration

A single run of a bot

Bot



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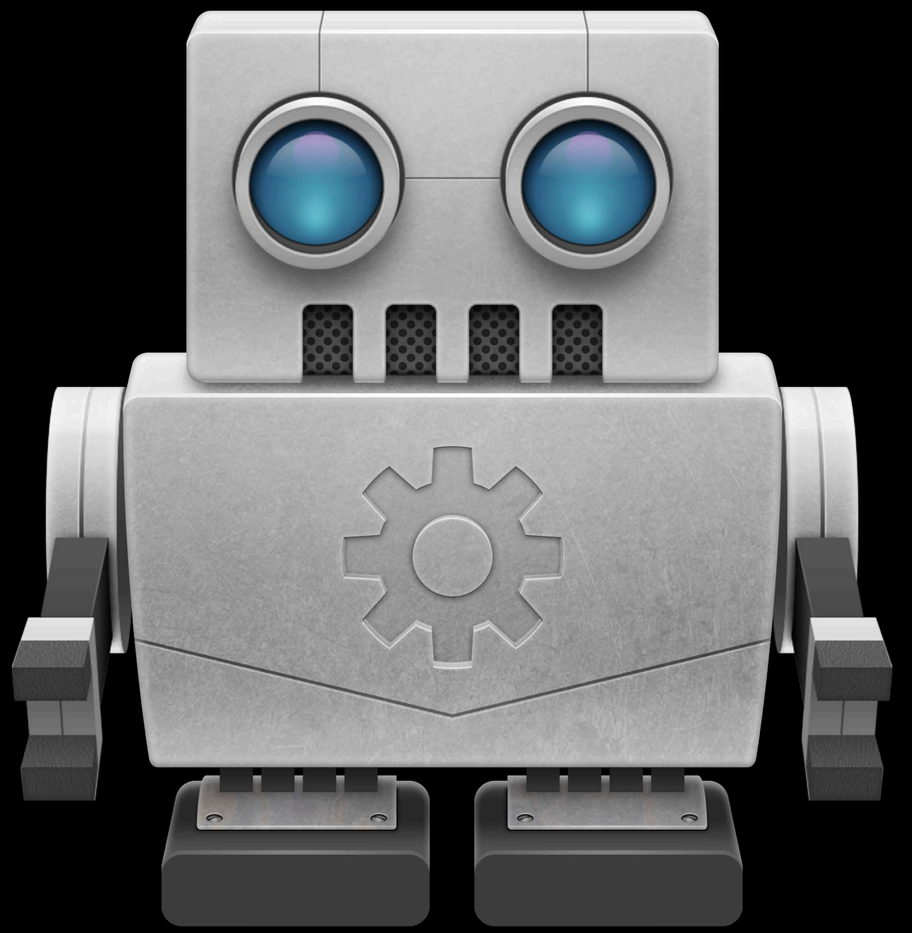

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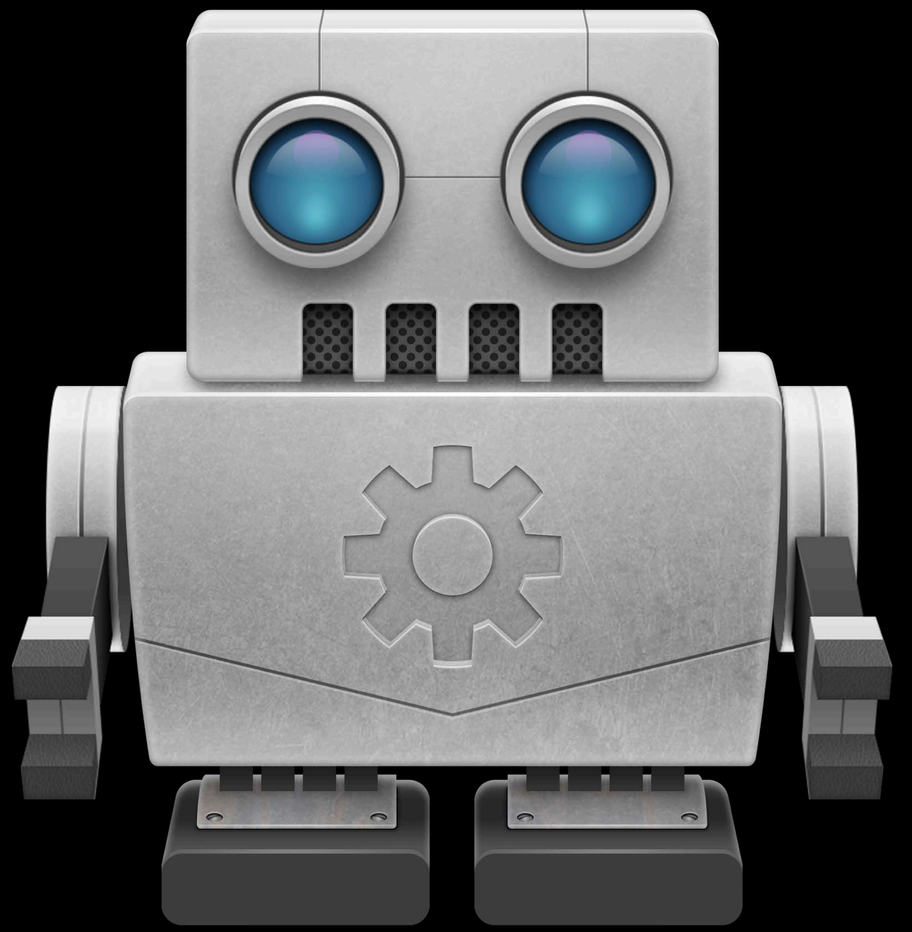
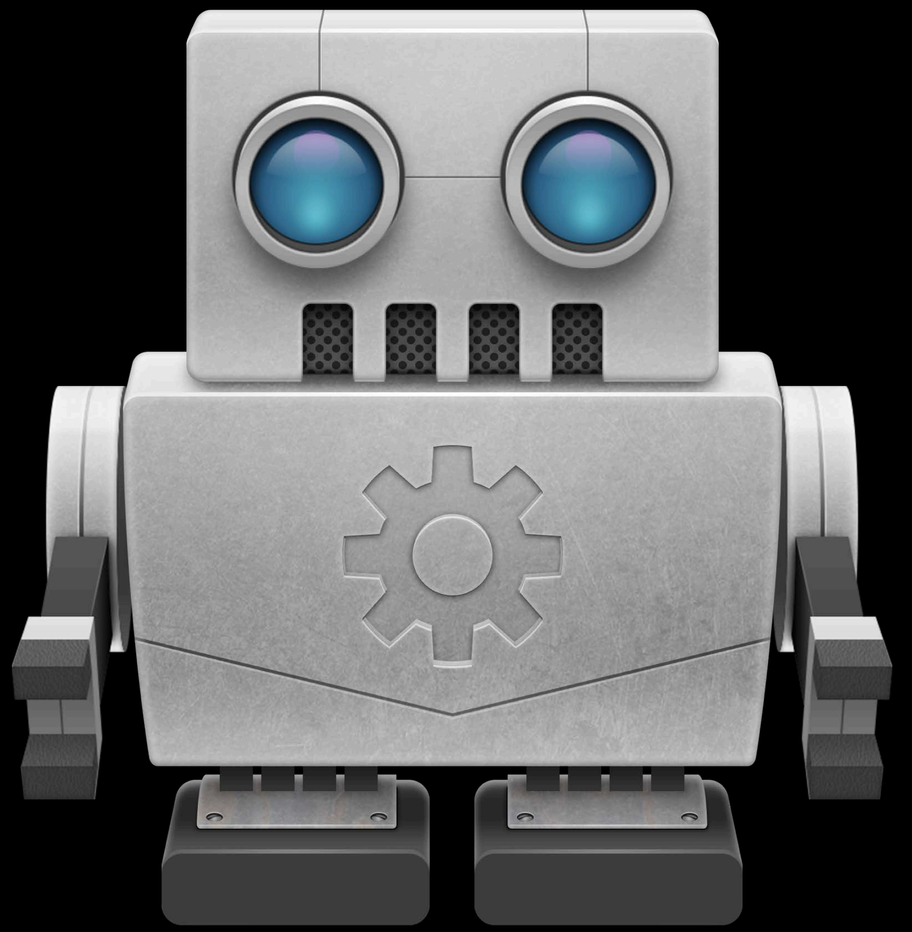


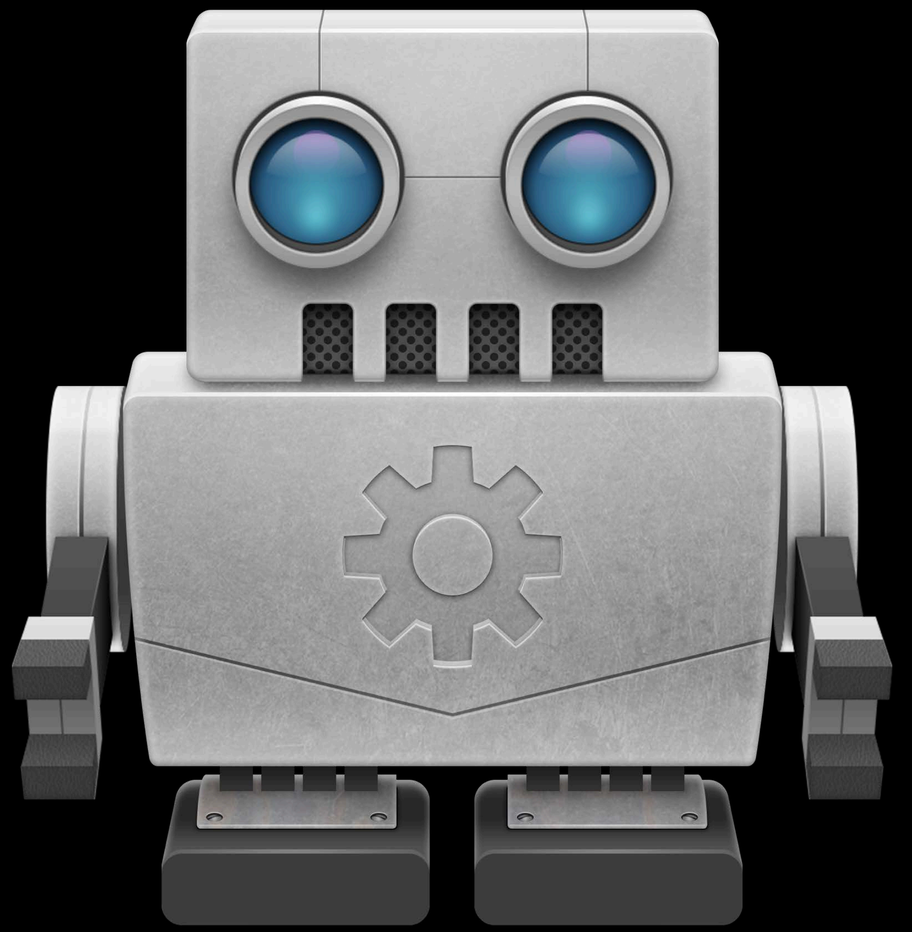
Bot

- Defines what to build



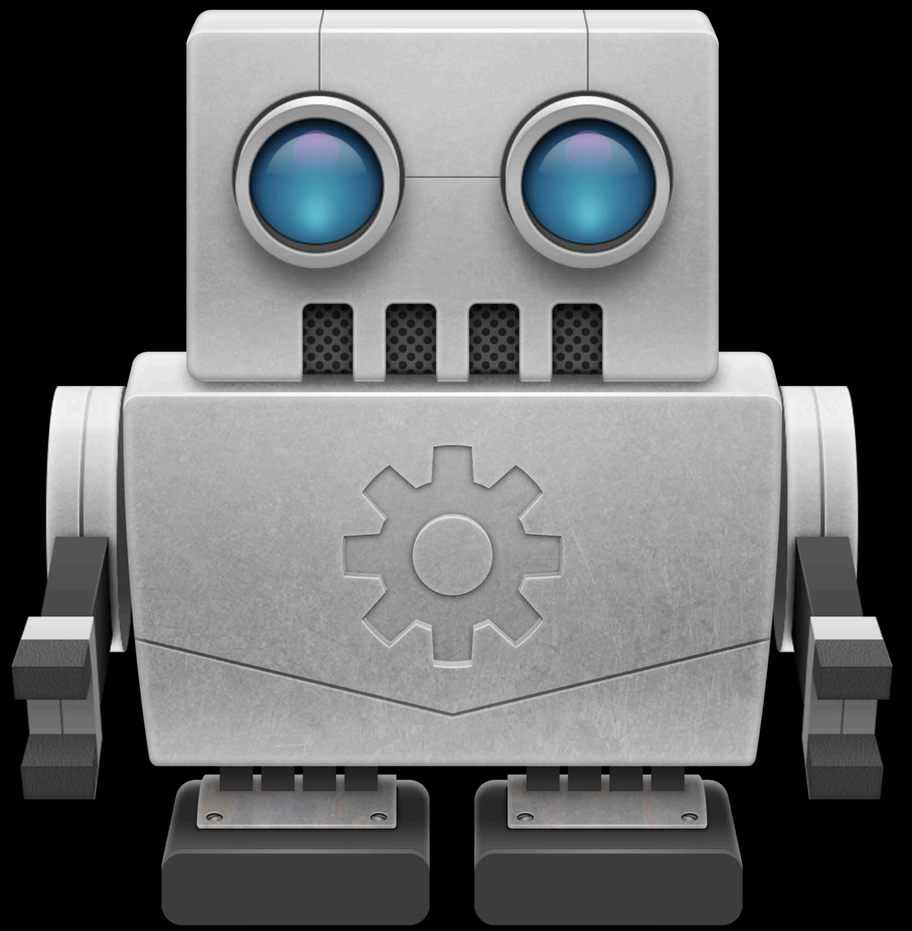
Bot

- Defines what to build
  - Project and SCM information



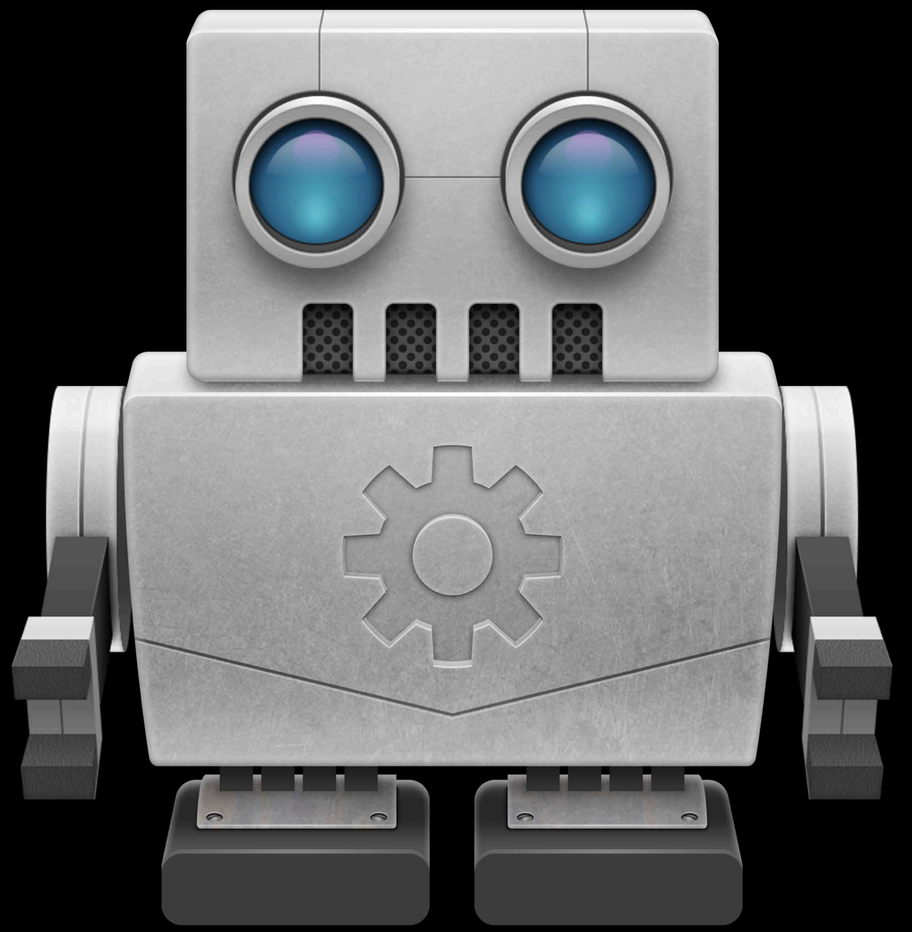
Bot

- Defines what to build
  - Project and SCM information
- When to build it



Bot

- Defines what to build
  - Project and SCM information
- When to build it
  - Periodic, on-commit, or manual



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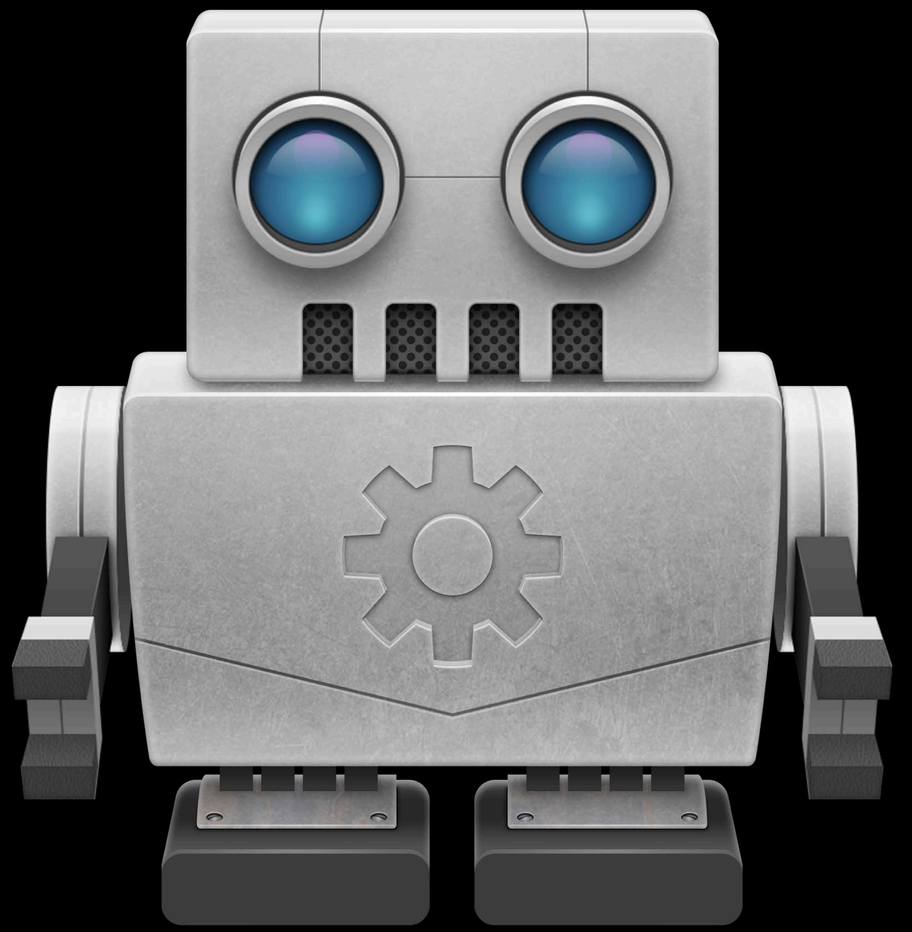
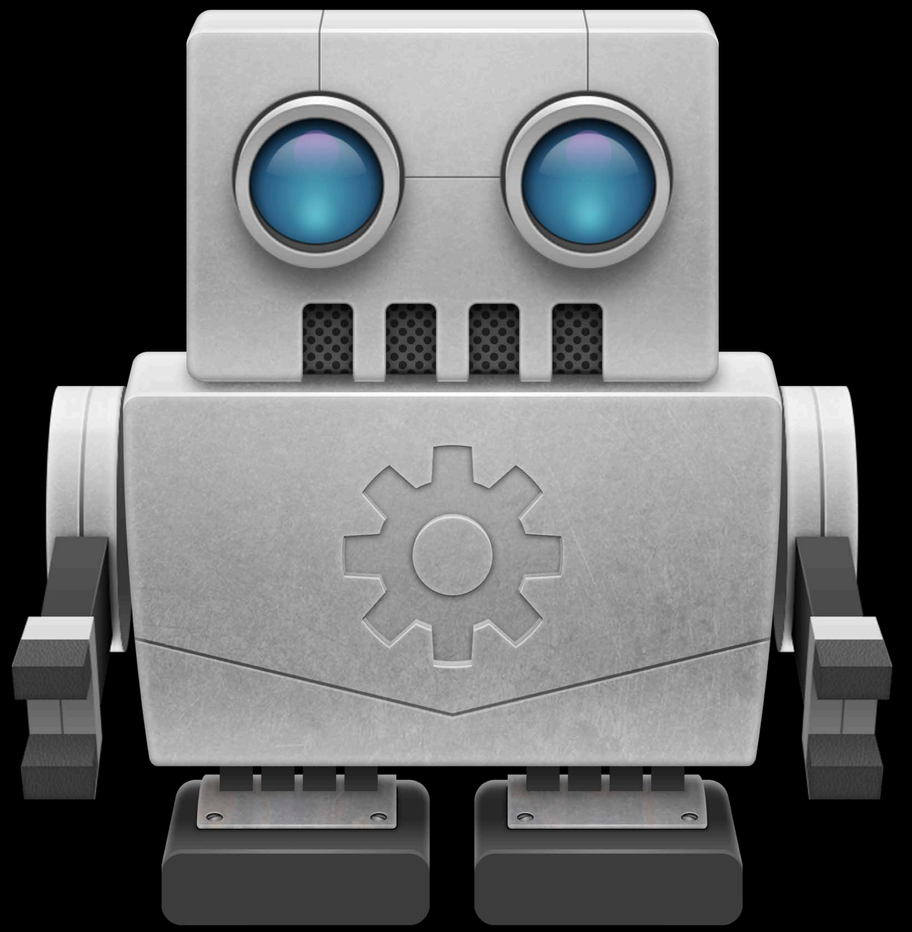


Bot

- Defines what to build
  - Project and SCM information
- When to build it
  - Periodic, on-commit, or manual
- How to build it
  - Shared scheme



Bot

- Defines what to build
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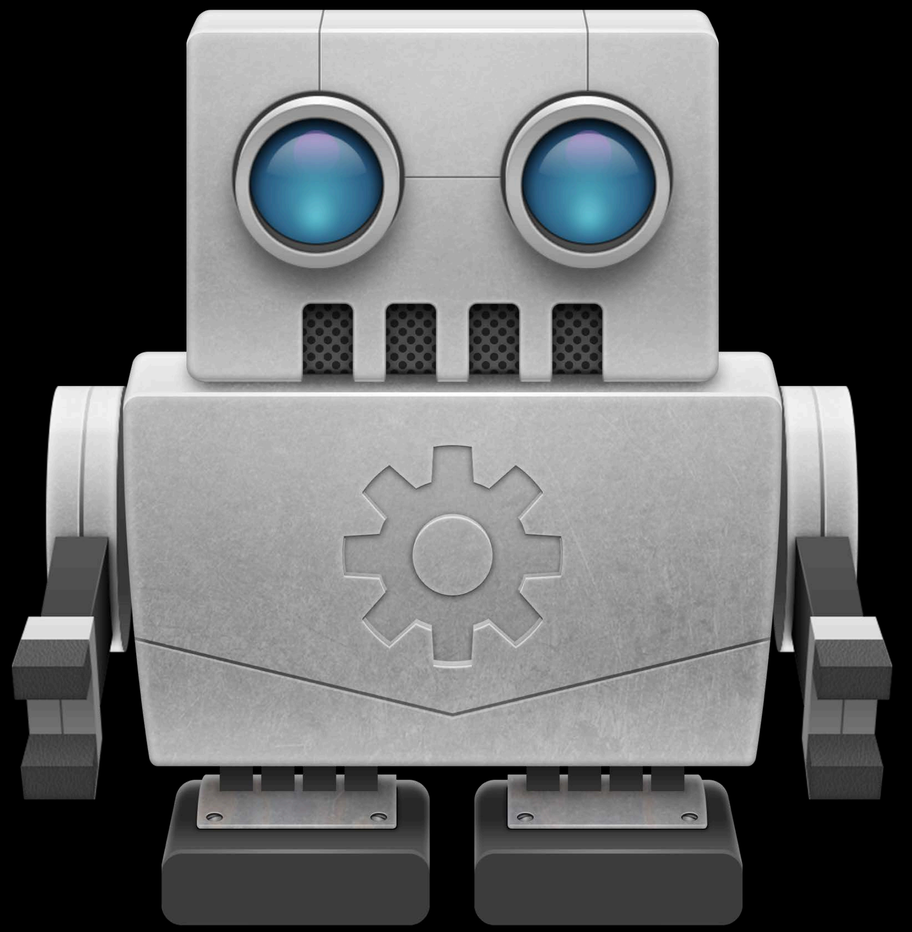
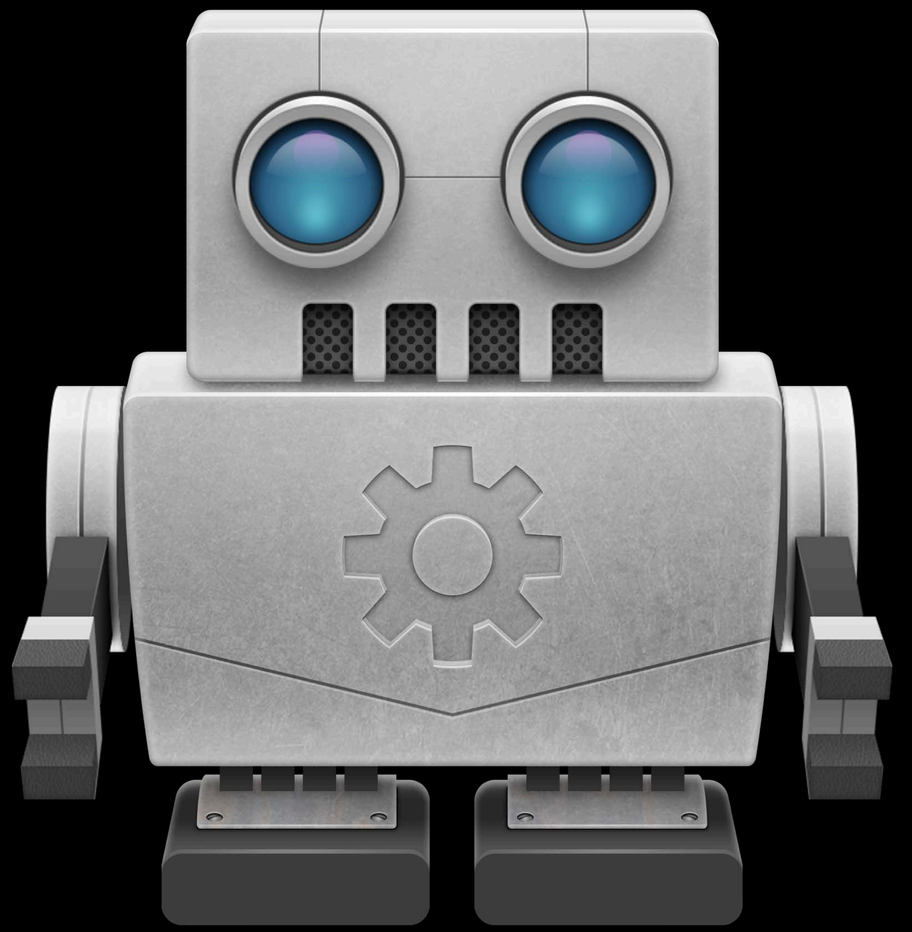
- When to build it
  - Periodic, on-commit, or manual
- How to build it
  - Shared scheme
  - Static analysis



Bot

- Defines what to build
  - Project and SCM information
- When to build it
  - Periodic, on-commit, or manual
- How to build it
  - Shared scheme
  - Static analysis
  - Testing and devices



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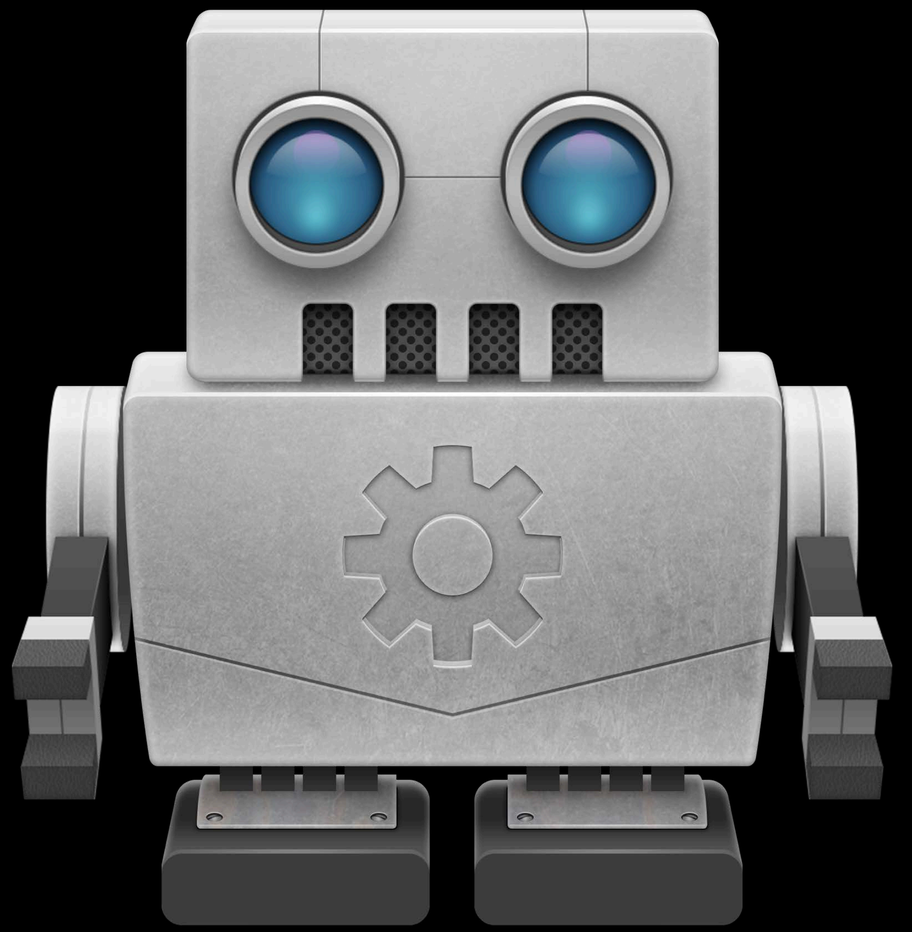
  - Shared scheme
  - Static analysis
  - Testing and devices
  - Archives



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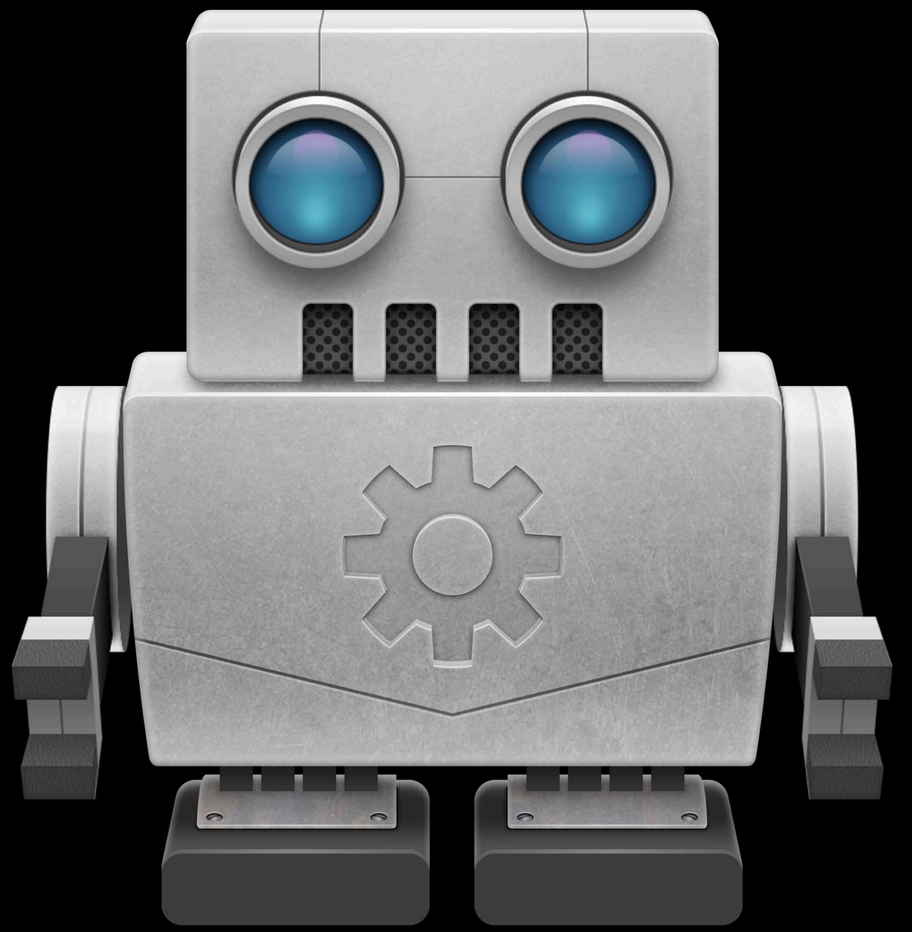
  - Static analysis
  - Testing and devices
  - Archives
- Notifications



OS X Server

Preview

OS X Server

Preview

Xcode

5.0

OS X Server

Preview

Xcode

5.0

OS X Server

OS X Server

- Easy install from the Mac App Store

OS X Server

- Easy install from the Mac App Store
- Simple setup

OS X Server

- Easy install from the Mac App Store
- Simple setup
- Brand new UI

Server

OS X Server

To set up OS X Server on this Mac, click Continue.

Other Mac

Cancel

Continue

Help

Server

Administrator access is required to set up OS X Server on this Mac. Type your password to allow this.

User Name: Andrew Nesbitt

Password:

Cancel Allow

OS X Server

To set up OS X Server on this Mac, click Continue.

Other Mac Cancel Continue Help

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User Name: Andrew Nesbitt

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Cancel Allow

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Server

OS X Server

Server is being set up on this Mac.

Getting server state

Server

OS X Server

Server is being set up on this Mac.

Getting host names

Server

OS X Server

Server is being set up on this Mac.

Configuring Service Authentication

Server

OS X Server

Server is being set up on this Mac.

Creating certificates

Server

OS X Server

Server is being set up on this Mac.

Preparing services

Server

OS X Server

Server is being set up on this Mac.

Completing setup

Server

SERVER
- Andrew's MacBook Pro
- Andrew's AirPort Express
- Alerts
- Certificates
- Logs
- Stats

ACCOUNTS
- Users
- Groups

SERVICES
- Caching
- Calendar
- Contacts
- File Sharing
- Mail
- Messages
- Time Machine
- VPN
- Websites
- Wiki
- Xcode

ADVANCED

Andrew's MacBook Pro

Overview | Settings | Storage

Access

Host Name: xcodeserverdemo@icloud.com — Edit...
Learn about accessing this server over the internet

Computer Name: Andrew's MacBook Pro — Edit...
Your server is available at this address on the local network.

Server

Running for: 9 hours, 57 minutes
System Version: OS X 10.9 (Build 13A476l)
Server Version: Server 2.2.55 (Build 13S264)

Networks

Wi-Fi: 10.0.1.3

OS X Server

- Easy install from the Mac App Store
- Simple setup
- Brand new UI

OS X Server

- Easy install from the Mac App Store
- Simple setup
- Brand new UI
- New Xcode service

Xcode Service

- Bonjour discovery

Xcode Service

- Bonjour discovery
- Easily create and manage bots that build Mac and iOS projects

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  - Access settings (bot creators and viewers)

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  - Join your server to your development team

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  - Run tests on multiple iOS devices
- Hosted Git repositories

Xcode Service

- Bonjour discovery
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- Devices
  - Add/Remove devices from your team
  - Run tests on multiple iOS devices
- Hosted Git repositories
- Connect to remote SVN or Git repositories

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ADVANCED

Xcode

OFF ON

Settings | Repositories

Access

Status: Available on your local network at xcode-server-demo.local
Learn about configuring devices for this service

Permissions: Anyone can create and view bots — Edit...

Builds

Perform builds using: Xcode 5.0 (5A11314m) — Choose...

Developer Teams: No Teams — Add...

Devices

Add a developer team to test on iOS devices

View bots

Filter Devices

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ADVANCED

OFF ON

Sign in to Apple Developer

Sign in using an Apple ID and password associated with an Apple Developer Program.

Apple ID: xcodeserverdemo@icloud.com

Password:

Use of these Apple services is subject to your Apple Developer Program License Agreement.

? Cancel Sign In

Acc

S mo.local

P Edit...

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Signing in… Cancel Sign In

Edit…

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OFF ON

Your Apple ID is a member of the Xcode Server Demo development team. Do you want to add this server to this team?

OS X Server will obtain new signing certificates for all App IDs belonging to this team, and will be visible as a member of this team on the Mac and iOS Dev Centers.

Don't Add | Add

.local

Learn about configuring devices for this service

Permissions: Anyone can create and view bots — Edit...

Builds

Perform builds using: Xcode 5.0 (5A11314m) — Choose...

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Add a developer team to test on iOS devices

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Joining Xcode Server Demo…

Cancel

OFF ON

ositories

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ADVANCED

Xcode

OFF ON

Settings | Repositories

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Devices

No devices connected

View bots

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Devices

iPad iPad (3rd generation) / 6.1.3	Use for Development

View bots

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ADVANCED

OFF ON

Do you want to add this device to the Xcode Server Demo development team?

This device must be added to a team before it can be used to run and test applications built by OS X Server.

Don't Add | Add

Status: Available on your local network at xcode-server-demo.local
Learn about configuring devices for this service

Permissions: Anyone can create and view bots — Edit...

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Adding iPad to Xcode Server Demo…

Cancel

OFF ON

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iPad iPad (3rd generation) / 6.1.3	Xcode Server Demo

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ADVANCED

Xcode

OFF ON

Settings | Repositories

Access

Allow access to hosted repositories over HTTP, HTTPS, and SSH — Edit...

Hosted repositories can be created by: Logged in users — Edit...

Repositories

Click (+) to add repositories

+ −

Filter Repositories

Server

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Access

☑ Allow access to hosted repositories over HTTP, HTTPS, and SSH — Edit...

Hosted repositories can be created by: Logged in users — Edit...

Repositories

Hosted Repositories

Bubblegum
https://Xcode-Server-Demo.local/git/Bubblegum.git

Remote Repositories

SharedLibraries
svn+ssh://bubbleinc.com/svn/libraries

+ − ✎

Filter Repositories

OS X Server

Preview

OS X Server

Preview

Xcode

5.0

Xcode 5

Xcode 5

- New account preferences

Xcode 5

- New account preferences
- Create and edit bots in Xcode

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- Create and edit bots in Xcode
- Beautiful reports for build and test history

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- New account preferences
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  - Assistant editor support

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  - Dig into errors, issues, and warnings

Xcode 5

- New account preferences
- Create and edit bots in Xcode
- Beautiful reports for build and test history
  - Assistant editor support
    - Dig into errors, issues, and warnings
  - View test results across multiple devices and over time

Xcode 5

- New account preferences
- Create and edit bots in Xcode
- Beautiful reports for build and test history
  - Assistant editor support
    - Dig into errors, issues, and warnings
  - View test results across multiple devices and over time
  - Commit history and logs

Xcode 5

- New account preferences
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  - Commit history and logs
  - View and download archives of your project

Xcode 5

- New account preferences
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- Beautiful reports for build and test history
  - Assistant editor support
    - Dig into errors, issues, and warnings
  - View test results across multiple devices and over time
  - Commit history and logs
  - View and download archives of your project
- Source control integration

Demo

Continuous integration in Xcode 5

Brent Shank
Software Engineer, Xcode

Welcome to Xcode

Version 5.0 (5A11314m)

Create a new Xcode project
Start building a new iPhone, iPad or Mac application.

Check out an existing project
Start working on something from an SCM Repository.

No Recent Projects

Open Other…

Accounts

General | Accounts | Behaviors | Navigation | Fonts & Colors | Text Editing | Key Bindings | Source Control | Downloads | Locations

No Accounts

Click add (+) button to create a new account

+ − ⚙

Accounts

General | Accounts | Behaviors | Navigation | Fonts & Colors | Text Editing | Key Bindings | Source Control | Downloads | Locations

No Accounts

Click add (+) button to create a new account

Add Apple ID...
Add Repository...
Add Server...

Accounts

General | Accounts | Behaviors | Navigation | Fonts & Colors | Text Editing | Key Bindings | Source Control | Downloads | Locations

Choose a server:

Xcode Server Demo

Or enter a server address:

Xcode-Server-Demo.local

Cancel | Previous | Next

No A

w account

+ – ⚙

Accounts

General | Accounts | Behaviors | Navigation | Fonts & Colors | Text Editing | Key Bindings | Source Control | Downloads | Locations

Enter your user name and password:

Address: Xcode-Server-Demo.local

Connect as: Guest
Registered user

User Name:

Password:

Cancel | Previous | Add

No Accounts

Click add (+) button to create a new account

+ − ⚙

Accounts

General | Accounts | Behaviors | Navigation | Fonts & Colors | Text Editing | Key Bindings | Source Control | Downloads | Locations

Enter your user name and password:

Address: Xcode-Server-Demo.local

Connect as: Guest
Registered user

User Name: brent

Password: •••••

Cancel | Previous | Add

No Accounts

Click add (+) button to create a new account

+ − ⚙

Accounts

General | Accounts | Behaviors | Navigation | Fonts & Colors | Text Editing | Key Bindings | Source Control | Downloads | Locations

Servers

Xcode Server Demo
Xcode-Server-Demo.local

+ − ⚙

Server

ON

Address: Xcode-Server-Demo.local

Description: Xcode Server Demo

Connect as: Guest
Registered user

User Name: brent

Password: ••••••••••••••

Check Out

Choose an item:

Recents | Favorites | **Repositories**

- **Ace**
  ssh://Xcode-Server-Demo.local/git/Ace.git
- **Avacado**
  ssh://Xcode-Server-Demo.local/git/Avacado.git
- **Bubblegum**
  ssh://Xcode-Server-Demo.local/git/Bubblegum.git
- **Epsilon**
  ssh://Xcode-Server-Demo.local/git/Epsilon.git
- **Gaia**
  ssh://Xcode-Server-Demo.local/git/Gaia.git
- **Guacamole**
  ssh://Xcode-Server-Demo.local/git/Guacamole.git

Or enter a repository location:

Cancel | Previous | Next

Check Out

Choose an item:

Recents | Favorites | **Repositories**

- Ace
  ssh://Xcode-Server-Demo.local/git/Ace.git
- Avacado
  ssh://Xcode-Server-Demo.local/git/Avacado.git
- ☆ Bubblegum
  ssh://Xcode-Server-Demo.local/git/Bubblegum.git
- Epsilon
  ssh://Xcode-Server-Demo.local/git/Epsilon.git
- Gaia
  ssh://Xcode-Server-Demo.local/git/Gaia.git
- Guacamole
  ssh://Xcode-Server-Demo.local/git/Guacamole.git

Or enter a repository location:

ssh://brent@Xcode-Server-Demo.local/git/Bubblegum.git

Cancel | Previous | Next

Bubblegum.xcodeproj

Bubblegum › iPhone | Bubblegum: **Ready** | Today at 1:06 PM | 2 1 1

By Group | By Time

- **Project** Yesterday, 6:41 PM
  - Push Bubblegum Yesterday, 6:41 PM
  - **Bubblegum** Xcode Server Demo

Bubblegum

Summary | Tests

Bubblegum

Integrate Now

Integration Results

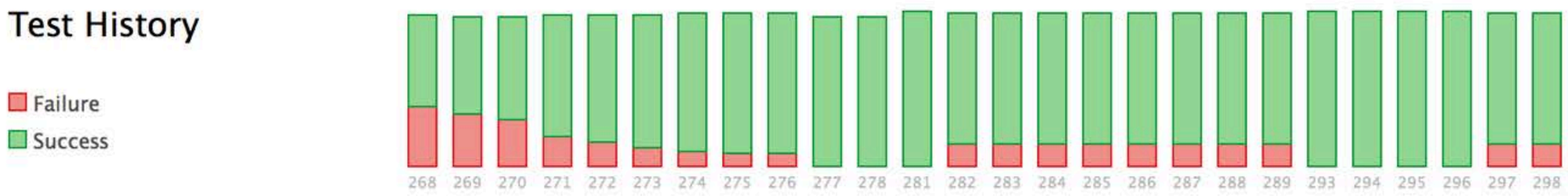
Finished with test failures

Start: 6/7/13, 6:41 PM
Duration: 53 seconds
2 commits by xcodeserverdemo…

0	1	1	4
Errors	Warning	Analysis	Tests Failed

Build History

Test History



Integration Details

Warnings

Add suggested flavors here some day
Bubblegum — BubblegumFactory.m

Analysis Issues

Value stored to 'flavors' during its initialization is never read
Bubblegum — BubblegumFactory.m

Bubblegum.xcodeproj

Bubblegum 〉 iPhone | Bubblegum: **Ready** | Today at 1:06 PM | 2 1 1

By Group | By Time

- **Project**
  Yesterday, 6:41 PM
  - Push Bubblegum
    Yesterday, 6:41 PM
- **Bubblegum**
  Xcode Server Demo
  - Integrate (298)
    Yesterday, 6:41 PM
  - Integrate (297)
    Yesterday, 6:26 PM
  - Integrate (296)
    Yesterday, 6:13 PM
  - Integrate (295)
    Yesterday, 6:12 PM
  - Integrate (294)
    Yesterday, 6:11 PM
  - Integrate (293)
    Yesterday, 6:10 PM
  - Integrate (289)
    Yesterday, 6:06 PM
  - Integrate (288)
    Yesterday, 6:05 PM
  - Integrate (287)
    Yesterday, 6:04 PM
  - Integrate (286)
    Yesterday, 5:54 PM
  - Load More...
    282 more integrations on server

Bubblegum

Summary | Tests

Bubblegum

Integrate Now

Integration Results

Finished with test failures

Start: 6/7/13, 6:41 PM
Duration: 53 seconds
2 commits by xcodeserverdemo…

0 Errors
1 Warning
1 Analysis
4 Tests Failed

Build History

Errors
Warnings
Analysis Issues

No Issues
No Issues

268 269 270 271 272 273 274 275 276 277 278 281 282 283 284 285 286 287 288 289 293 294 295 296 297 298

Test History

Failure
Success

268 269 270 271 272 273 274 275 276 277 278 281 282 283 284 285 286 287 288 289 293 294 295 296 297 298

Integration Details

Warnings

Add suggested flavors here some day
Bubblegum — BubblegumFactory.m

Analysis Issues

Value stored to 'flavors' during its initialization is never read
Bubblegum — BubblegumFactory.m

Bubblegum.xcodeproj

Bubblegum 〉 iPhone | Bubblegum: **Ready** | Today at 1:06 PM | 2 1 1

By Group | By Time

Project
Yesterday, 6:41 PM

Push Bubblegum
Yesterday, 6:41 PM

Bubblegum
Xcode Server Demo

Integrate (298)
Yesterday, 6:41 PM

Integrate (297)
Yesterday, 6:26 PM

Integrate (296)
Yesterday, 6:13 PM

Integrate (295)
Yesterday, 6:12 PM

Integrate (294)
Yesterday, 6:11 PM

Integrate (293)
Yesterday, 6:10 PM

Integrate (289)
Yesterday, 6:06 PM

Integrate (288)
Yesterday, 6:05 PM

Integrate (287)
Yesterday, 6:04 PM

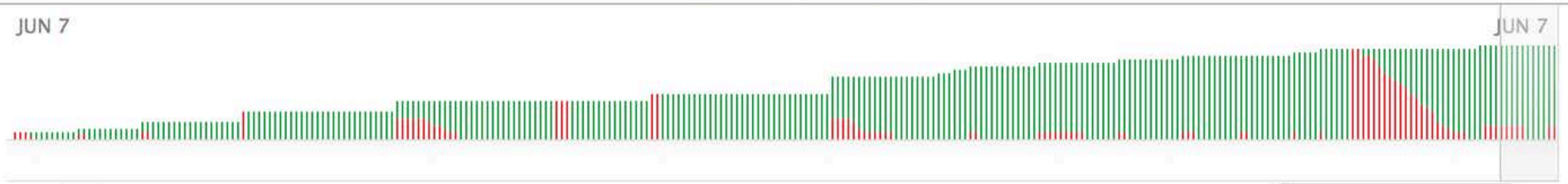
Integrate (286)
Yesterday, 5:54 PM

Load More...
282 more integrations on server

Bubblegum

Summary | Tests

JUN 7 — JUN 7



All | Failed

Integration	285	286	287	288	289	293	294	295	296	297	298
Tests	◔	◔	◔	◔	◔	◇	◇	◇	◇	◔	◔
Failed	4	4	4	4	4	0	0	0	0	4	4
Total	27	27	27	27	27	27	27	27	27	27	27
-[BubblegumTes...taSourceDealloc]	✖	✖	✖	✖	✖	✓	✓	✓	✓	✖	✖
-[BubblegumTes...urceDereference]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-[BubblegumTests testDataSourceInit]	✖	✖	✖	✖	✖	✓	✓	✓	✓	✖	✖
-[BubblegumTes...urceInitWithData]	✖	✖	✖	✖	✖	✓	✓	✓	✓	✖	✖
-[BubblegumTes...ourceInitWithNil]	✖	✖	✖	✖	✖	✓	✓	✓	✓	✖	✖
-[BubblegumTests testDealloc]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-[BubblegumTests testDereference]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-[BubblegumTes...SLocatorDealloc]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-[BubblegumTes...atorDereference]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-[BubblegumTests testGPSLocatorInit]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-[BubblegumTes...atorInitWithData]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-[BubblegumTes...ocatorInitWithNil]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-[BubblegumTests testInit]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-[BubblegumTests testInitWithData]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-[BubblegumTests testInitWithNil]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Bubblegum.xcodeproj

Bubblegum 〉 iPhone | Bubblegum: **Ready** | Today at 1:06 PM | 2 1 1

By Group | By Time

- **Project**
  Yesterday, 6:41 PM
  - Push Bubblegum
    Yesterday, 6:41 PM
- **Bubblegum**
  Xcode Server Demo
  - Integrate (298)
    Yesterday, 6:41 PM
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  - Integrate (289)
    Yesterday, 6:06 PM
  - Integrate (288)
    Yesterday, 6:05 PM
  - Integrate (287)
    Yesterday, 6:04 PM
  - Integrate (286)
    Yesterday, 5:54 PM
  - Load More...
    282 more integrations on server

Bubblegum 〉 Bubblegum Integrate (298)

Summary | **Tests** | Commits | Logs

Test Results

Start: 6/7/13, 6:41 PM
Duration: 53 seconds
2 commits by xcodeserverdemo…

27 Tests Total
23 Tests Passed
4 Tests Failed

Device Summary
- 4 Devices Tested
- 1/1 iPads Failed
- 3/3 iPhones Failed

Device | OS | Processor

Device	iPad mini (Model A1…	iPod touch (4th gen…	iPod touch (5th generation)	
Model	Cheesecake 7.0 / armv7f	Uproar 7.0 / armv7f	Hubbub 6.1.3 / armv7f	Din 6.1.3 / armv7
Tests	27	27	27	27
Failed	4	4	4	4
-[Bubblegu…ourceDealloc]	✗	✗	✗	✗
-[Bubblegu…eDereference]	✓	✓	✓	✓
-[Bubblegu…ataSourceInit]	✗	✗	✗	✗
-[Bubblegu…eInitWithData]	✗	✗	✗	✗
-[Bubblegu…rceInitWithNil]	✗	✗	✗	✗
-[Bubblegu…ts testDealloc]	✓	✓	✓	✓
-[Bubblegu…tDereference]	✓	✓	✓	✓
-[Bubblegu…ocatorDealloc]	✓	✓	✓	✓
-[Bubblegu…rDereference]	✓	✓	✓	✓
-[Bubblegu…PSLocatorInit]	✓	✓	✓	✓
-[Bubblegu…rInitWithData]	✓	✓	✓	✓
-[Bubblegu…torInitWithNil]	✓	✓	✓	✓

Bubblegum.xcodeproj

Bubblegum › iPhone

Build Bubblegum: **Succeeded** | Today at 1:10 PM

1 4 1

By Group | By Time

- **Bubblegum** — Today, 1:10 PM
  - Test — Today, 1:10 PM
  - Build — Today, 1:10 PM
- **Project** — Yesterday, 6:41 PM
  - Push Bubblegum — Yesterday, 6:41 PM
- **Bubblegum** — Xcode Server Demo
  - Integrate (298) — Yesterday, 6:41 PM
  - Integrate (297) — Yesterday, 6:26 PM
  - Integrate (296) — Yesterday, 6:13 PM
  - Integrate (295) — Yesterday, 6:12 PM
  - Integrate (294) — Yesterday, 6:11 PM
  - Integrate (293) — Yesterday, 6:10 PM
  - Integrate (289) — Yesterday, 6:06 PM
  - Integrate (288) — Yesterday, 6:05 PM
  - Integrate (287) — Yesterday, 6:04 PM
  - Integrate (286) — Yesterday, 5:54 PM
  - Load More... — 282 more integrations on...

Bubblegum Integrate (298)

Summary | **Tests** | Commits | Logs

Test Results

Start: 6/7/13, 6:41 PM
Duration: 53 seconds
2 commits by xcodeserverdemo . . .

27 Tests Total

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Failed	4	4	4	4
-[Bubblegu...ourceDealloc]	✗	✗	✗	✗
-[Bubblegu...eDereference]	✓	✓	✓	✓
-[Bubblegu...ataSourceInit]	✗	✗	✗	✗
-[Bubblegu...eInitWithData]	✗	✗	✗	✗
-[Bubblegu...rceInitWithNil]	✗	✗	✗	✗
-[Bubblegu...ts testDealloc]	✓	✓	✓	✓
-[Bubblegu...tDereference]	✓	✓	✓	✓
-[Bubblegu...ocatorDealloc]	✓	✓	✓	✓
-[Bubblegu...rDereference]	✓	✓	✓	✓
-[Bubblegu...PSLocatorInit]	✓	✓	✓	✓
-[Bubblegu...rInitWithData]	✓	✓	✓	✓
-[Bubblegu...torInitWithNil]	✓	✓	✓	✓
-[BubblegumTests testInit]	✓	✓	✓	✓
-[Bubblegu...tInitWithData]	✓	✓	✓	✓
-[Bubblegu...estInitWithNil]	✓	✓	✓	✓
-[Bubblegu...testModelInit]	✓	✓	✓	✓
-[Bubblegu...IInitWithData]	✓	✓	✓	✓
-[Bubblegu...leViewDealloc]	✓	✓	✓	✓
-[Bubblegu...wDereference]	✓	✓	✓	✓
-[Bubblegu...TableViewInit]	✓	✓	✓	✓
-[Bubblegu...InitWithData]	✓	✓	✓	✓
-[Bubblegu...iewInitWithNil]	✓	✓	✓	✓
-[Bubblegu...trollerDealloc]	✓	✓	✓	✓
-[Bubblegu...rDereference]	✓	✓	✓	✓

Referenced Files › BubblegumTests.m › @implementation BubblegumTests

```
    MasterViewController *mvc = [[MasterViewController alloc] init];
    STAssertNotNil(mvc, @"Failed to initialize MasterViewController.");
    mvc = nil;
}

- (void)testTableViewDereference
{
    MasterViewController *mvc = [[MasterViewController alloc] init];
    STAssertNotNil(mvc, @"Failed to initialize MasterViewController.");
    mvc = nil;
}

- (void)testDataSourceInit
{
    BubblegumFactory *factory = [BubblegumFactory sharedBubblegumFactory];
    STAssertNotNil(factory, @"Expected BubblegumFactory to not be nil, but it is: %@", factory);
    NSArray *suggestedFlavors = factory.tastyFlavors;
    STAssertEquals(suggestedFlavors.count, (NSUInteger)4, @"Expected 4 flavors after initializing the factory.");
}
'0' should be equal to '4': Expected 4 flavors after initializing the factory.

- (void)testDataSourceInitWithData
{
    BubblegumFactory *factory = [BubblegumFactory sharedBubblegumFactory];
    STAssertNotNil(factory, @"Expected BubblegumFactory to not be nil, but it is: %@", factory);
    NSArray *suggestedFlavors = factory.tastyFlavors;
    STAssertEquals(suggestedFlavors.count, (NSUInteger)4, @"Expected 4 flavors after initializing the factory.");
}
'0' should be equal to '4': Expected 4 flavors after initializing the factory.

- (void)testDataSourceInitWithNil
{
    BubblegumFactory *factory = [BubblegumFactory sharedBubblegumFactory];
    STAssertNotNil(factory, @"Expected BubblegumFactory to not be nil, but it is: %@", factory);
    NSArray *suggestedFlavors = factory.tastyFlavors;
    STAssertEquals(suggestedFlavors.count, (NSUInteger)4, @"Expected 4 flavors after initializing the factory.");
}
'0' should be equal to '4': Expected 4 flavors after initializing the factory.

- (void)testDataSourceDealloc
{
    BubblegumFactory *factory = [BubblegumFactory sharedBubblegumFactory];
    STAssertNotNil(factory, @"Expected BubblegumFactory to not be nil, but it is: %@", factory);
    NSArray *suggestedFlavors = factory.tastyFlavors;
    STAssertEquals(suggestedFlavors.count, (NSUInteger)4, @"Expected 4 flavors after initializing the factory.");
}
'0' should be equal to '4': Expected 4 flavors after initializing the factory.

- (void)testDataSourceDereference
{
    BubblegumFactory *factory = [BubblegumFactory sharedBubblegumFactory];
    STAssertNotNil(factory, @"Expected BubblegumFactory to not be nil, but it is: %@", factory);
    factory = nil;
}

- (void)testGPSLocatorInit
{
    BubblegumFactory *factory = [BubblegumFactory sharedBubblegumFactory];
    STAssertNotNil(factory, @"Expected BubblegumFactory to not be nil, but it is: %@", factory);
    CLLocation *userLocation = [factory userLocation];
    STAssertNil(userLocation, @"Factory returned a user location.");
}

- (void)testGPSLocatorInitWithData
{
    //    BubblegumFactory *factory = [BubblegumFactory sharedBubblegumFactory];
    //    STAssertNotNil(factory, @"Expected BubblegumFactory to not be nil, but it is: %@", factory);
    //    CLLocation *userLocation = [factory userLocation];
    //    STAssertNil(userLocation, @"Factory returned a user location.");
}

- (void)testGPSLocatorInitWithNil
{
    //    BubblegumFactory *factory = [BubblegumFactory sharedBubblegumFactory];
    //    STAssertNotNil(factory, @"Expected BubblegumFactory to not be nil, but it is: %@", factory);
    //    CLLocation *userLocation = [factory userLocation];
    //    STAssertNil(userLocation, @"Factory returned a user location.");
}

- (void)testGPSLocatorDealloc
{
    //    BubblegumFactory *factory = [BubblegumFactory sharedBubblegumFactory];
    //    STAssertNotNil(factory, @"Expected BubblegumFactory to not be nil, but it is: %@", factory);
```

Welcome to Xcode

Version 5.0 (5A11314m)

Create a new Xcode project
Start building a new iPhone, iPad or Mac application.

Check out an existing project
Start working on something from an SCM Repository.

No Recent Projects

Open Other…

Welcome to Xcode

Version 5.0 (5A11314m)

Create a new Xcode project
Start building a new iPhone, iPad or Mac application.

Check out an existing project
Start working on something from an SCM Repository.

Show this window when Xcode launches

No Recent Projects

Open Other…

Loading No Issues

Choose a template for your new project

- iOS
  - Application
  - Framework & Library
  - Other
- OS X
  - Application
  - Framework & Library
  - Application Plug-in
  - System Plug-in
  - Other

Master-Detail Application | OpenGL Game | Page-Based Application | Single View Application

Tabbed Application | Utility Application | Empty Application | SpriteKit Game

Master-Detail Application

This template provides a starting point for a master-detail application. It provides a user interface configured with a navigation controller to display a list of items and also a split view on iPad.

Cancel | Previous | Next

No Selection

Objective-C class – An Objective-C class with a header for Cocoa Touch

Objective-C protocol – An Objective-C protocol for Cocoa Touch

Objective-C test case class – An Objective-C class implementing a unit test

Loading No Issues

Documents

FAVORITES
All My Files
Applications
Desktop
Documents
Downloads
DEVICES
Remote Disc
13A476u
TAGS
Red
Orange
Yellow
Green

Source Control: Create git repository on My Mac
Xcode will place your project under version control

New Folder Cancel Create

No Selection

Objective-C class – An Objective-C class with a header for Cocoa Touch

Objective-C protocol – An Objective-C protocol for Cocoa Touch

Objective-C test case class – An Objective-C class implementing a unit test

Loading No Issues

Documents

FAVORITES
All My Files
Applications
Desktop
Documents
Downloads

DEVICES
Remote Disc
13A476u

TAGS
Red
Orange
Yellow
Green

Source Control: Create git repository on
Xcode will place your project

My Mac
Xcode Server Demo
Add New Server...

New Folder
Cancel
Create

No Selection

Objective-C class – An Objective-C class with a header for Cocoa Touch

Objective-C protocol – An Objective-C protocol for Cocoa Touch

Objective-C test case class – An Objective-C class implementing a unit test

New Project.xcodeproj

New Project 〉 iPhone

Pushing to Server... No Issues

New Project

New Project
2 targets, iOS SDK 7.0

- New Project
  - AppDelegate.h
  - AppDelegate.m
  - Main_iPhone.storyboard
  - Main_iPad.storyboard
  - MasterViewController.h
  - MasterViewController.m
  - DetailViewController.h
  - DetailViewController.m
  - Images.xcassets
  - Supporting Files
- New ProjectTests
- Frameworks
- Products

New Project | General | Capabilities | Info | Build Settings | Build Phases | Build Rules

Identity

Bundle Identifier: xcsdemo.wwdc.New-Project
Version: 1.0
Build: 1.0
Team: None

Deployment Info

Deployment Target: 7.0
Devices: Universal

iPhone | iPad

Main Interface: Main_iPhone
Device Orientation: Portrait, Upside Down, Landscape Left, Landscape Right
Status Bar Style: Default
Hide during application launch

App Icons

Source: AppIcon

Launch Images

Identity and Type

Name: New Project
Location: Absolute
New Project.xcodeproj
Full Path: /Users/andrew/Documents/New Project/New Project.xcodeproj

Project Document

Project Format: Xcode 3.2-compatible
Organization: Andrew Nesbitt
Class Prefix:

Text Settings

Indent Using: Spaces
Widths: 4 Tab, 4 Indent
Wrap lines

Source Control

Repository: --
Type: --
Current Branch: --
Version: --
Status: No changes
Location:

Objective-C class – An Objective-C class with a header for Cocoa Touch

Objective-C protocol – An Objective-C protocol for Cocoa Touch

Objective-C test case class – An Objective-C class implementing a unit test

New Project.xcodeproj

Pushing to Server... No Issues

New Project 〉 iPhone

New Project

New Project
2 targets, iOS SDK 7.0
- New Project
  - AppDelegate.h
  - AppDelegate.m
  - Main_iPhone.storyboard
  - Main_iPad.storyboard
  - MasterViewController.h
  - MasterViewController.m
  - DetailViewController.h
  - DetailViewController.m
  - Images.xcassets
  - Supporting Files
- New ProjectTests
- Frameworks
- Products

New Project | General | Capabilities | Info | Build Settings | Build Phases | Build Rules

Identity

Bundle Identifier: xcsdemo.wwdc.New-Project
Version: 1.0
Build: 1.0
Team: None

Deployment Info

Deployment Target: 7.0
Devices: Universal

iPhone | iPad

Main Interface: Main_iPhone

Device Orientation:
- [x] Portrait
- [ ] Upside Down
- [x] Landscape Left
- [x] Landscape Right

Status Bar Style: Default
- [ ] Hide during application launch

App Icons

Source: AppIcon

Launch Images

Identity and Type

Name: New Project
Location: Absolute
New Project.xcodeproj
Full Path: /Users/andrew/Documents/New Project/New Project.xcodeproj

Project Document

Project Format: Xcode 3.2-compatible
Organization: Andrew Nesbitt
Class Prefix:

Text Settings

Indent Using: Spaces
Widths: 4 Tab, 4 Indent
- [x] Wrap lines

Source Control

Repository: --
Type: --
Current Branch: --
Version: --
Status: No changes
Location:

Objective-C class – An Objective-C class with a header for Cocoa Touch

Objective-C protocol – An Objective-C protocol for Cocoa Touch

Objective-C test case class – An Objective-C class implementing a unit test

Web Application

Web Application

- A view of your project outside Xcode

Web Application

- A view of your project outside Xcode
- See all bots on your server

Web Application

- A view of your project outside Xcode
- See all bots on your server
- Add and edit bots on the web

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  - Flagged builds

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  - Build pruning

Web Application

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- Archives view
  - Archive and product downloading
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  - iOS product installation on the web

Web Application

- A view of your project outside Xcode
- See all bots on your server
- Add and edit bots on the web
- Same reports as Xcode
- Archives view
  - Archive and product downloading
  - Flagged builds
  - Build pruning
  - iOS product installation on the web
- Scoreboard

Demo

Web App and Scoreboard

xcsdemo.wwdc/xcode/bots

xcsdemo.wwdc/xcode/bots

Reader

Xcode Bots

Latest Integration

Guacamole Nightly
Integration 6

View Summary

0 Errors

0 Warnings

14 Analysis

Next Integration

Nightly Frameworks
Integration 192

Integrate Now

00 Days

10 Hours

37 Minutes

Latest Downloads

Guacamole Nightly
Integration 6

View Archives

Product
Created 6/8/2013
27 KB

Archive
Created 6/8/2013
37 KB

All Failed Passed

Filter

Name	Status	Next	Last	
Ace	Finished with warnings	--	Yesterday at 5:23 PM	Integrate
Bubblegum	Finished with test failures	--	Yesterday at 6:50 PM	Integrate
Bubblegum Nightly	Build failed	Tomorrow at 2:00 AM	Today at 2:22 PM	Integrate
Guacamole	Finished with warnings	--	Yesterday at 12:09 PM	Integrate
Guacamole Nightly	Finished with analysis issues	--	Today at 2:24 PM	Integrate
Nightly Frameworks	Succeeded	Tomorrow at 1:00 AM	Today at 2:22 PM	Integrate
Proctor	Finished with warnings	--	Yesterday at 7:18 PM	Integrate
Salsa	Build failed	--	Yesterday at 2:11 AM	Integrate

xcsdemo.wwdc/xcode/bots

xcsdemo.wwdc/xcode/bots

Reader

Xcode Bots

Latest Integration

Guacamole Nightly
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Product
Created 6/8/2013
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Archive
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All Failed Passed

Filter

Name	Status	Next	Last	
Bubblegum Nightly	Build failed	Tomorrow at 2:00 AM	Today at 2:22 PM	Integrate
Salsa	Build failed	--	Yesterday at 2:11 AM	Integrate

xcsdemo.wwdc/xcode/bots/bubblegum2

xcsdemo.wwdc/xcode/bots/bubblegum2

Reader

Xcode | Bots | Bubblegum

Bubblegum
xcsdemo.wwdc

Yesterday

- Integrate (298) Jun 7, 2013
- Integrate (297) Jun 7, 2013
- Integrate (296) Jun 7, 2013
- Integrate (295) Jun 7, 2013
- Integrate (294) Jun 7, 2013
- Integrate (293) Jun 7, 2013
- Integrate (289) Jun 7, 2013
- Integrate (288) Jun 7, 2013
- Integrate (287) Jun 7, 2013
- Integrate (286) Jun 7, 2013
- Integrate (285) Jun 7, 2013
- Integrate (284) Jun 7, 2013
- Integrate (283) Jun 7, 2013
- Integrate (282) Jun 7, 2013

Bubblegum

Summary | Tests | Commits | Logs | Archives

Integrate

Latest Integration

Status: Finished with test failures
Start: Friday at 6:41 PM
Duration: 8 minutes
2 commits

0	1	1	4
Errors	Warnings	Analysis	Failed Tests

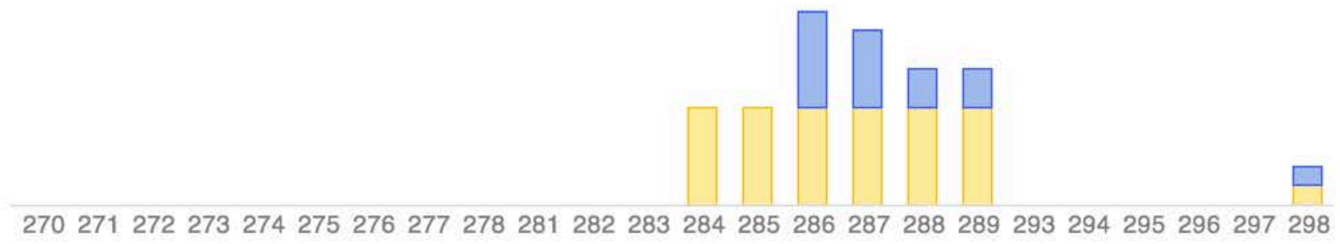
Downloads

Archive
185 KB

Product
185 KB

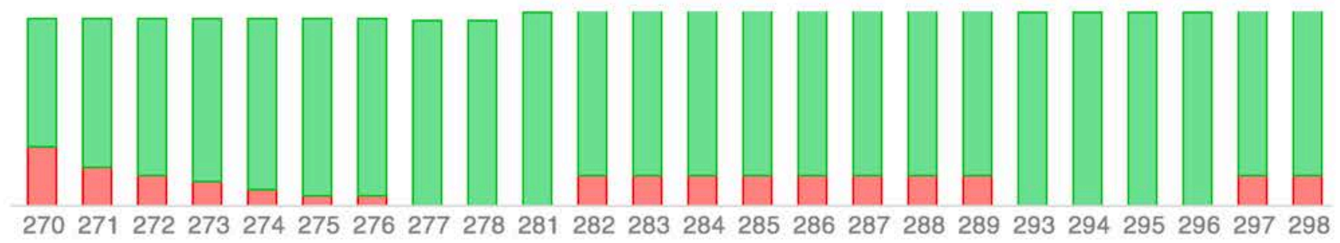
Build History

Analysis Issues
Warnings
Errors



Test History

Passed Tests
Failed Tests



Last Integration Details

Analysis Issues

Value stored to 'flavors' during its initialization is never read

Warnings

Add suggested flavors here some day

xcsdemo.wwdc/xcode/bots/bubblegum2

xcsdemo.wwdc/xcode/bots/bubblegum2 Reader

Xcode Bots Bubblegum

Bubblegum
xcsdemo.wwdc

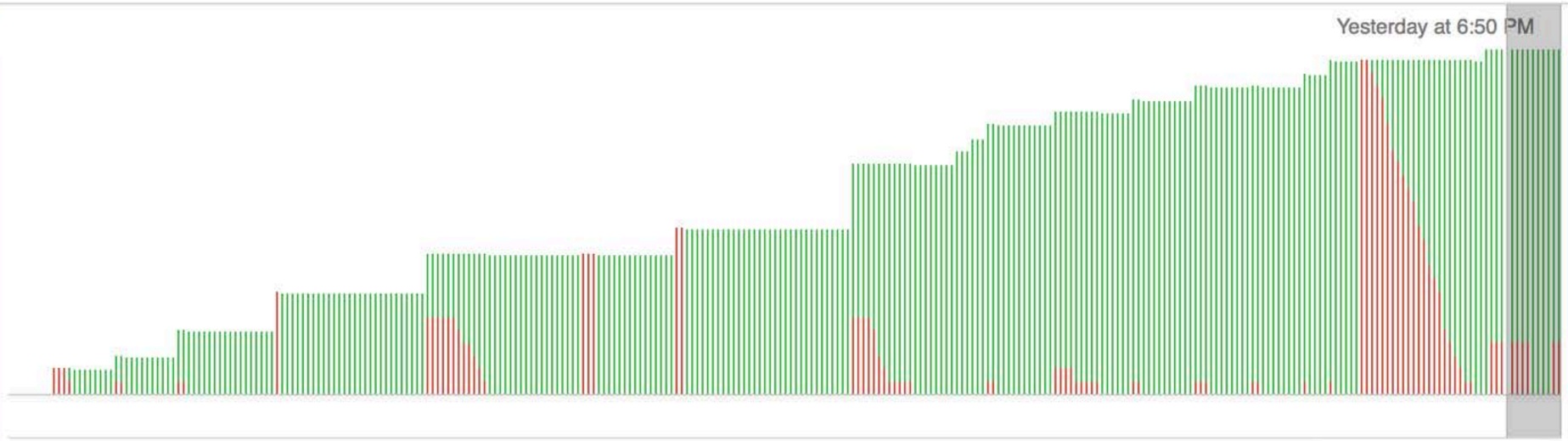
Yesterday

- Integrate (298) Jun 7, 2013
- Integrate (297) Jun 7, 2013
- Integrate (296) Jun 7, 2013
- Integrate (295) Jun 7, 2013
- Integrate (294) Jun 7, 2013
- Integrate (293) Jun 7, 2013
- Integrate (289) Jun 7, 2013
- Integrate (288) Jun 7, 2013
- Integrate (287) Jun 7, 2013
- Integrate (286) Jun 7, 2013
- Integrate (285) Jun 7, 2013
- Integrate (284) Jun 7, 2013
- Integrate (283) Jun 7, 2013
- Integrate (282) Jun 7, 2013

Bubblegum

Summary | Tests | Commits | Logs | Archives

Integrate



All Failed Passed

Jun 7, 2013 - Jun 7, 2013

Filter

Integration	286	287	288	289	293	294	295	296	297	298
Tests										
Total	27	27	27	27	27	27	27	27	27	27
Failed	4	4	4	4	0	0	0	0	4	4
BubblegumTests/testDataSourc…	✗	✗	✗	✗	✓	✓	✓	✓	✗	✗
BubblegumTests/testDataSourc…	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BubblegumTests/testDataSourc…	✗	✗	✗	✗	✓	✓	✓	✓	✗	✗
BubblegumTests/testDataSourc…	✗	✗	✗	✗	✓	✓	✓	✓	✗	✗
BubblegumTests/testDataSourc…	✗	✗	✗	✗	✓	✓	✓	✓	✗	✗
BubblegumTests/testDealloc	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BubblegumTests/testDereference	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

xcsdemo.wwdc/xcode/bots/bubblegum2

xcsdemo.wwdc/xcode/bots/bubblegum2

Reader

Xcode Bots Bubblegum

Bubblegum
xcsdemo.wwdc

Yesterday

- Integrate (298) Jun 7, 2013
- Integrate (297) Jun 7, 2013
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- Integrate (288) Jun 7, 2013
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- Integrate (286) Jun 7, 2013
- Integrate (285) Jun 7, 2013
- Integrate (284) Jun 7, 2013
- Integrate (283) Jun 7, 2013
- Integrate (282) Jun 7, 2013

Bubblegum

Summary | Tests | Commits | Logs | Archives

Integrate

Type	Integration	Date	Name	Size
Product	298	6/7/2013	Bubblegum.ipa	100 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	297	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	296	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	295	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	294	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	293	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	289	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	288	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB

xcsdemo.wwdc/xcode/bots/bubblegum2

xcsdemo.wwdc/xcode/bots/bubblegum2 Reader

Xcode Bots Bubblegum

Bubblegum
xcsdemo.wwdc

Yesterday

- Integrate (298) Jun 7, 2013
- Integrate (297) Jun 7, 2013
- Integrate (296) Jun 7, 2013
- Integrate (295)
- Integrate (289) Jun 7, 2013
- Integrate (288) Jun 7, 2013
- Integrate (287) Jun 7, 2013
- Integrate (286) Jun 7, 2013
- Integrate (285) Jun 7, 2013
- Integrate (284) Jun 7, 2013
- Integrate (283) Jun 7, 2013
- Integrate (282) Jun 7, 2013

Bubblegum

Summary | Tests | Commits | Logs | Archives | Integrate

Type	Integration	Date	Name	Size
Product	298	6/7/2013	Bubblegum.ipa	100 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	297	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	15	6/3/2013	Ace.pkg	35 KB
Archive		6/3/2013	Archive.xcarchive.zip	45 KB
Product	295	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	294	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	293	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	289	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB
Product	288	6/7/2013	Bubblegum.ipa	99 KB
Archive		6/7/2013	Archive.xcarchive.zip	185 KB

Bubblegum

19 hrs ago

Integration 298

0	1	1	4
Errors	Warnings	Analysis	Failed Tests

1 Committer

Add a warning to remind myself to implement this method some day.

Andrew Nesbitt
Yesterday at 6:41 PM

1 file modified

4 Devices

- Bubblegum — 19 hrs ago
- Bubblegum Nightly — 1 min ago
- Guacamole — 1 day ago
- Guacamole Nightly — 21 hrs ago
- Nightly Frameworks — Just now
- Proctor — 19 hrs ago
- Salsa — 1 day ago
- Unit Test Bot — 1 day ago
- Zed — 1 day ago
- Ace — 21 hrs ago

Integration 298

0	1	1	4
Errors	Warnings	Analysis	Failed Tests

1 Committer

Add a warning to remind myself to implement this method some day.

Andrew Nesbitt
Yesterday at 6:41 PM — 1 file modified

4 Devices

Hubbub · Din · Uproar · Cheesecake

Best Practices

Best Practices

- Structure your code in workspaces

Best Practices

- Structure your code in workspaces
- Use role accounts for remote repositories

Best Practices

- Structure your code in workspaces
- Use role accounts for remote repositories
- Suggested bots

Best Practices

Best Practices

On commit

Build, test, and run static analysis for every source change

Best Practices

On commit

Build, test, and run static analysis for every source change

Nightly

Build your project at 3am

Best Practices

On commit

Build, test, and run static analysis for every source change

Nightly

Build your project at 3am

Per branch

Create a new bot per branch

How to Get It

How to Get It

- Go to developer.apple.com today

How to Get It

- Go to developer.apple.com today
  - OS X 10.9 Mavericks

How to Get It

- Go to developer.apple.com today
  - OS X 10.9 Mavericks
  - OS X Server preview

How to Get It

- Go to developer.apple.com today
  - OS X 10.9 Mavericks
  - OS X Server preview
  - Xcode 5 preview

How to Get It

- Go to developer.apple.com today
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  - OS X Server preview
  - Xcode 5 preview
- Join your existing ADC teams if you are a team agent/admin

How to Get It

- Go to developer.apple.com today
  - OS X 10.9 Mavericks
  - OS X Server preview
  - Xcode 5 preview
- Join your existing ADC teams if you are a team agent/admin
- Bring your existing devices

Summary

- Use the Xcode service to build better apps
  - Configure in minutes
  - Checkout and build your project automatically
  - Catch build issues and errors; run static analysis regularly
  - Run tests on multiple devices
- Keep history around for your projects
- Easily distribute builds to your team
- Integrated tightly with Xcode
- Web UI and Scoreboard

Related Sessions

Testing in Xcode 5	Pacific Heights Thursday 9:00AM	
Understanding Source Control in Xcode	Pacific Heights Friday 10:15AM	

Labs

Continuous Integration Lab	Tools Lab A Tuesday 4:30PM
Xcode and Continuous Integration Lab	Tools Lab A Thursday 9:00AM
Xcode Lab	Tools Lab A Friday 9:00AM

WWDC2013