

XcodeEditor-master

Generated by Doxygen 1.9.3

Chapter 1

Description

An API for manipulating Xcode project files.

1.1 Usage

1.1.0.1 Adding Source Files to a Project

```
XCPProject* project = [[XCPProject alloc] initWithFilePath:@"MyProject.xcodeproj"];
XCGroup* group = [project groupWithPathFromRoot:@"Main"];
XCClassDefinition* classDefinition = [[XCClassDefinition alloc] initWithName:@"MyNewClass"];
[classDefinition setHeader:@"<some-header-text>"];
[classDefinition setSource:@"<some-impl-text>"];
[group addClass:classDefinition];
[project save];
```

1.1.0.2 Duplicating Targets

It will be added to project as well.

```
XCTarget* target = [project targetWithName:@"SomeTarget"];
XCTarget* duplicated = [target duplicateWithTargetName:@"DuplicatedTarget" productName:@"NewProduct"];
```

1.1.0.3 Specifying Source File Belongs to Target

```
XCSourceFile* sourceFile = [project fileWithName:@"MyNewClass.m"];
XCTarget* examples = [project targetWithName:@"Examples"];
[examples addMember:sourceFile];
[project save];
```

1.1.0.4 Adding a Xib File

This time, we'll use a convenience method on `XCGroup` to specify the targets at the same time:

```
XCXibDefinition* xibDefinition = [[XCXibDefinition alloc] initWithName:@"MyXibFile" content:@"<xibXml>"];
[group addXib:xibDefinition toTargets:[project targets]];
[project save];
```

1.1.0.5 Adding a Framework

```
XCFrameworkDefinition* frameworkDefinition =
    [[XCFrameworkDefinition alloc] initWithFilePath:@"<framework path>" copyToDestination:NO];
[group addFramework:frameworkDefinition toTargets:[project targets]];
[project save];
```

Setting `copyToDestination` to YES, will cause the framework to be first copied to the group's directory within the project, and subsequently linked from there.

1.1.0.6 Adding an Image Resource

```
XCSourceFileDefinition* sourceFileDefinition = [[XCSourceFileDefinition alloc]
    initWithName:@"MyImageFile.png" data:[NSData dataWithContentsOfFile:<your image file name>]
    type:ImageResourcePNG];
[group addSourceFile:sourceFileDefinition];
[project save];
```

1.1.0.7 Adding Asset Catalog (ImageSet)

```
XCSourceFileDefinition* sourceFileDefinition = [XCSourceFileDefinition
    sourceDefinitionWithAssetCatalogName:<path to asset catalog>];
[group addSourceFile:sourceFileDefinition];
[project save];
```

1.1.0.8 Adding a Header

```
XCSourceFileDefinition* header = [[XCSourceFileDefinition alloc]
    initWithName:@"SomeHeader.h" text:<your header text> type:SourceCodeHeader];
[group addSourceFile:header];
[project save];
```

1.1.0.9 Adding a sub-project

```
subProjectDefinition = [XCSubProjectDefinition withName:@"mySubproject" projPath=@"Path/To/Subproject"
    type:XcodeProject];
[group addSubProject:subProjectDefinition toTargets:[project targets]];
```

1.1.0.10 Removing a sub-project

```
[group removeSubProject:subProjectDefinition]; //TODO: project should be able to remove itself from parent.
```

1.1.0.11 Configuring targets

We can add/update linker flags, header search paths, C-flags, etc to a target. Here we'll add header search paths:

```
XCTarget* target = [_project targetWithName:_projectName];
for (NSString* configName in [target configurations])
{
    XCBuildConfiguration* configuration = [target configurationWithName:configName];
    NSMutableArray* headerPaths = [[NSMutableArray alloc] init];
    [headerPaths addObject:@"%$(inherited)"];
    [headerPaths addObject:@"%$(SRCROOT)/include"];
    [configuration addOrReplaceSetting:headerPaths forKey:@"HEADER_SEARCH_PATHS"];
}
```

... these settings are added by key, as they would appear in a make file. (Xcode provides more human friendly descriptions). To find the key for a given build setting, consult the compiler docs. Common settings are:

- HEADER_SEARCH_PATHS
- OTHER_LD_FLAGS
- CLANG_CXX_LANGUAGE_STANDARD
- CODE_SIGN_IDENTITY
- GCC_C_LANGUAGE_STANDARD
- INFOPLIST_FILE
- LIBRARY_SEARCH_PATHS
- PRODUCT_NAME
- PROVISIONING_PROFILE

1.1.0.12 Adding a Library

```
XCSourceFile * libSourceFile = [project fileWithName:@"libAmazing.a"];
XCTarget* target = [project targetWithName:self.mProject.projectName];
[target addMember:libSourceFile];
for (NSString* configName in [target configurations]) {
    XCProjectBuildConfig* configuration = [target configurationWithName:configName];
    NSMutableArray* headerPaths = [[NSMutableArray alloc] init];
    [headerPaths addObject:@"%$(inherited)"];
    [headerPaths addObject:@"%$(PROJECT_DIR)/Amazing"];
    [configuration addOrReplaceSetting:headerPaths forKey:@"LIBRARY_SEARCH_PATHS"];
}
```

1.1.0.13 File write behavior

```
//Creates the reference in the project and writes the contents to disk. If a file already exists at the
//specified location, its contents will be updated.
[definition setFileOperationStyle:FileOperationStyleOverwrite];
//Creates the reference in the project. If a file already exists at the specified location, the contents
will
//not be updated.
[definition setFileOperationStyle:FileOperationStyleAcceptExisting];
//Creates the reference in the project, but does not write to disk. The filesystem is expected to be updated
//through some other means.
[definition setFileOperationStyle:FileOperationStyleReferenceOnly];
```

1.2 Building

Open the project in XCode and choose Product/Build. Alternatively install with CocoaPods.

1.3 Feature Requests and Contributions

... are very welcome.

If you're using the API shoot me an email and tell me what you're doing with it.

1.4 Compatibility

- Xcode-editor has been tested on Xcode 4+. It should also work on earlier versions of Xcode.
- The AppCode IDE from JetBrains is now supported too!
- Supports both ARC and MRR modes of memory management.

1.5 Who's using it?

- [Apportable](#) : Develop Android applications using Xcode, Objective-C and Cocoa APIs
- [Xamarin](#): The Calabash automated functional testing for mobile applications.
- [Peckham](#) : A great plugin for managing Xcode imports
- [Level Helper](#): A RAD framework for developing 2D games on iOS & Android.
- [Text Mate](#): The missing Text Editor for OSX.

1.6 Authors

- Jasper Blues - jasper@appsquick.ly

1.6.0.1 With contributions from:

- Connor Duggan - lots of bug fixes, maintenance and enhancements.
- Alexander Smirnov - Cleaned up, generalized and contributed back the changes from the Calabash fork.
- Zach Drayer - lots of fixes and features to support TextMate.
- Janine Ohmer - support adding and removing sub-projects (<http://www.synapticats.com>).
- Bogdan Vladu - support adding and removing groups (www.levelhelper.org).
- Chris Ross of Hidden Memory (<http://www.hiddenmemory.co.uk/>)
- Paul Taykalo
- Vladislav Alekseev
- Felix Schneider - bug fixes.
- Isak Sky - mutable XCSourceFiles.
- Derk-Jan Hartman : Adding folder references, by-file compiler flags.
- StoneSpb : Speed improvements
- Ce Zheng : Fixes relating to Xcode 7, xcconfig support and others.

Thanks!

1.7 LICENSE

Apache License, Version 2.0, January 2004, <http://www.apache.org/licenses/>

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Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

HashValueMD5Hash	??
NSObject	
ClassCalledJanine	??
XCAbstractDefinition	??
XCBuildShellScriptDefinition	??
XCClassDefinition	??
XCFrameworkDefinition	??
XCSourceFileDefinition	??
XCSubProjectDefinition	??
XCXibDefinition	??
XCBuildShellScript	??
XCFileOperationQueue	??
XCFrameworkPath	??
XCGroup	??
XCKeyBuilder	??
XCProject	??
XCProjectBuildConfig	??
XCSourceFile	??
XCTarget	??
XCVersionGroup	??
<NSObject>	
<XCBuildFile>	??
XCGroup	??
XCSourceFile	??
XCVersionGroup	??
<XcodeGroupMember>	??
XCGroup	??
XCSourceFile	??
XCVersionGroup	??
NSString(RemoveEmoji)	??
NSString(XcodeMemberTypeExtensions)	??
NSString(XcodeSourceTreeTypeExtensions)	??
XCFileOperationQueue()	??
XCProject(SubProject)	??
XCSubProjectDefinition()	??

XCTestCase	
XCBuildShellScriptDefinitionTests	??
XCBuildShellScriptTests	??
XCClassDefinitionTests	??
XCGroupTests	??
XCKeyBuilderTests	??
XCProjectTests	??
XCSubProjectDefinitionTests	??
XCTargetTests	??
XcodeFileReferenceTypeTests	??

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

ClassCalledJanine	??
HashValueMD5Hash	??
NSString(RemoveEmoji)	??
NSString(XcodeMemberTypeExtensions)	??
NSString(XcodeSourceTreeTypeExtensions)	??
XCAbstractDefinition	??
<XCBuildFile>	??
XCBuildShellScript	??
XCBuildShellScriptDefinition	??
XCBuildShellScriptDefinitionTests	??
XCBuildShellScriptTests	??
XCClassDefinition	??
XCClassDefinitionTests	??
XCFileOperationQueue	??
XCFileOperationQueue()	??
XCFrameworkDefinition	??
XCFrameworkPath	??
XCGroup	??
XCGroupTests	??
XCKeyBuilder	??
XCKeyBuilderTests	??
XcodeFileReferenceTypeTests	??
<XcodeGroupMember>	??
XCProject	??
XCProject(SubProject)	??
XCProjectBuildConfig	??
XCProjectTests	??
XCSourceFile	??
XCSourceFileDefinition	??
XCSubProjectDefinition	??
XCSubProjectDefinition()	??
XCSubProjectDefinitionTests	??
XCTarget	??
XCTargetTests	??
XCVersionGroup	??
XCXibDefinition	??

Chapter 4

File Index

4.1 File List

Here is a list of all documented files with brief descriptions:

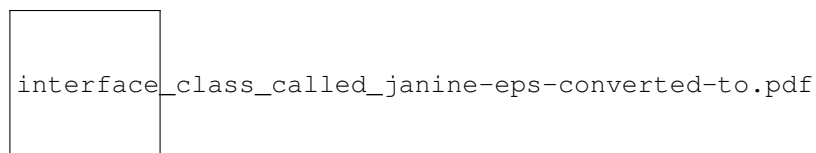
NSString+RemoveEmoji.h	??
XCAbstractDefinition.h	??
XCBuildFile.h	??
XCBuildShellScript.h	??
XCBuildShellScriptDefinition.h	??
XCClassDefinition.h	??
XCFileOperationQueue.h	??
XCFrameworkDefinition.h	??
XCGroup.h	??
XCKeyBuilder.h	??
XcodeEditor.h	??
XcodeGroupMember.h	??
XcodeMemberType.h	??
XcodeSourceFileType.h	??
XcodeSourceTreeType.h	??
XCProject+SubProject.h	??
XCProject.h	??
XCProjectBuildConfig.h	??
XCSourceFile.h	??
XCSourceFileDefinition.h	??
XCSubProjectDefinition.h	??
XCTarget.h	??
XCVersionGroup.h	??
XCXibDefinition.h	??
ClassCalledJanine.h	??
XCTestResourceUtils.h	??

Chapter 5

Class Documentation

5.1 ClassCalledJanine Class Reference

Inheritance diagram for ClassCalledJanine:



The documentation for this class was generated from the following file:

- ClassCalledJanine.h

5.2 HashValueMD5Hash Struct Reference

Public Attributes

- char **value** [MD5_DIGEST_LENGTH]

The documentation for this struct was generated from the following file:

- XCKeyBuilder.h

5.3 NSString(RemoveEmoji) Category Reference

Instance Methods

- (BOOL) - **isIncludingEmoji**
- (instancetype) - **stringByRemovingEmoji**
- ((deprecated) - **__attribute__**

The documentation for this category was generated from the following files:

- NSString+RemoveEmoji.h
- NSString+RemoveEmoji.m

5.4 NSString(XcodeMemberTypeExtensions) Category Reference

Instance Methods

- (XcodeMemberType) - **xce_asMemberType**
- (BOOL) - **xce_hasFileReferenceType**
- (BOOL) - **xce_hasFileReferenceOrReferenceProxyType**
- (BOOL) - **xce_hasReferenceProxyType**
- (BOOL) - **xce_hasGroupType**
- (BOOL) - **xce_hasProjectType**
- (BOOL) - **xce_hasNativeTargetType**
- (BOOL) - **xce_hasBuildFileType**
- (BOOL) - **xce_hasBuildConfigurationType**
- (BOOL) - **xce_hasContainerItemProxyType**
- (BOOL) - **xce_hasResourcesBuildPhaseType**
- (BOOL) - **xce_hasShellScriptBuildPhase**
- (BOOL) - **xce_hasSourcesOrFrameworksBuildPhaseType**
- (BOOL) - **xce_hasVersionedGroupType**

Class Methods

- (NSString *) + **xce_stringFromMemberType:**

The documentation for this category was generated from the following files:

- XcodeMemberType.h
- XcodeMemberType.m

5.5 NSString(XcodeSourceTreeTypeExtensions) Category Reference

Instance Methods

- (XcodeSourceTreeType) - **xce_asSourceTreeType**

Class Methods

- (NSString *) + **xce_stringFromSourceTreeType:**

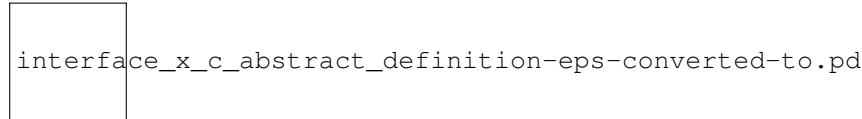
The documentation for this category was generated from the following files:

- XcodeSourceTreeType.h
- XcodeSourceTreeType.m

5.6 XCAbstractDefinition Class Reference

```
#import <XCAbstractDefinition.h>
```

Inheritance diagram for XCAbstractDefinition:



Protected Attributes

- XCFileType **_fileOperationType**

Properties

- XCFileType **fileOperationType**

5.6.1 Detailed Description

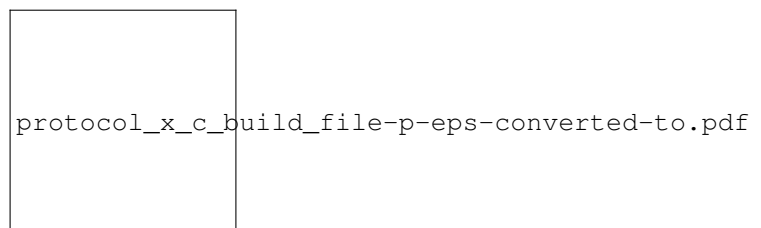
Holds properties to all types of resource that can be added to an Xcode project.

The documentation for this class was generated from the following file:

- XCAbstractDefinition.h

5.7 <XCBuildFile> Protocol Reference

Inheritance diagram for <XCBuildFile>:



Instance Methods

- (void) - [becomeBuildFile](#)
- (XcodeMemberType) - **buildPhase**
- (NSString *) - **buildFileKey**
- (BOOL) - [isBuildFile](#)

5.7.1 Method Documentation

5.7.1.1 becomeBuildFile

- (void) becomeBuildFile

Reimplemented in [XCSourceFile](#).

5.7.1.2 isBuildFile

- (BOOL) isBuildFile

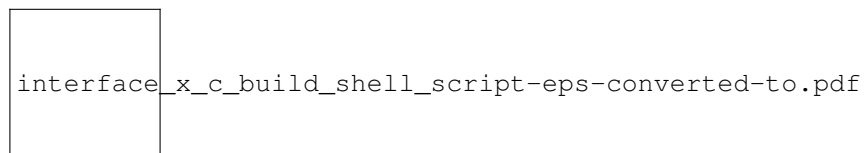
Reimplemented in [XCSourceFile](#).

The documentation for this protocol was generated from the following file:

- XCBuildFile.h

5.8 XCBuildShellScript Class Reference

Inheritance diagram for XCBuildShellScript:



Instance Methods

- (instancetype __Nonnull) - initWithProject:key:name:files:inputPaths:outputPaths:runOnlyFor↵
DeploymentPostprocessing:shellPath:shellScript:

Class Methods

- (XCBuildShellScript * __Nonnull) + shellScriptWithProject:key:name:files:inputPaths:outputPaths:run↵
OnlyForDeploymentPostprocessing:shellPath:shellScript:

Protected Attributes

- NSString * _key

Properties

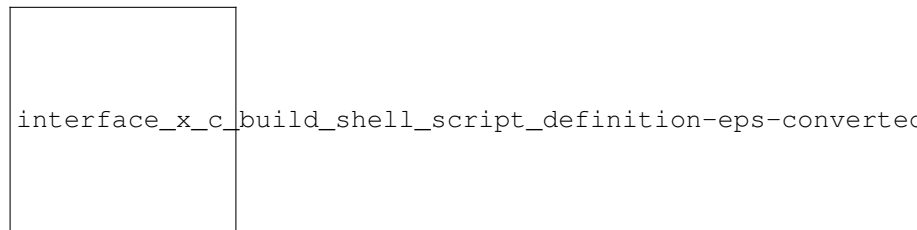
- NSString * **key**
- NSString * **name**
- BOOL **runOnlyForDeploymentPostprocessing**
- NSString * **shellScript**
- NSString * **shellPath**
- NSArray< NSString * > * **files**
- NSArray< NSString * > * **inputPaths**
- NSArray< NSString * > * **outputPaths**

The documentation for this class was generated from the following file:

- XCBuildShellScript.h

5.9 XCBuildShellScriptDefinition Class Reference

Inheritance diagram for XCBuildShellScriptDefinition:



Instance Methods

- (instancetype **_Nonnull**) - **initWithName:files:inputPaths:outputPaths:runOnlyForDeploymentPostprocessing:shellPath:shellScript:**

Class Methods

- (XCBuildShellScriptDefinition ***_Nonnull**) + **shellScriptDefinitionWithName:files:inputPaths:outputPaths:runOnlyForDeploymentPostprocessing:shellPath:shellScript:**

Protected Attributes

- NSString * **_key**

Properties

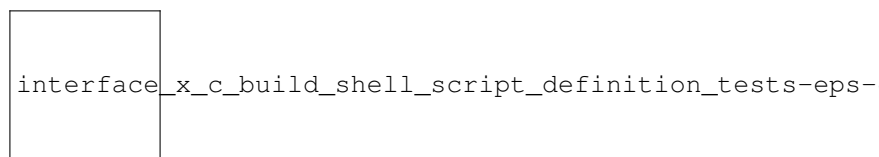
- NSString * **key**
- NSString * **name**
- BOOL **runOnlyForDeploymentPostprocessing**
- NSString * **shellScript**
- NSString * **shellPath**
- NSArray< NSString * > * **files**
- NSArray< NSString * > * **inputPaths**
- NSArray< NSString * > * **outputPaths**

The documentation for this class was generated from the following files:

- XCBuildShellScriptDefinition.h
- XCBuildShellScriptDefinition.m

5.10 XCBuildShellScriptDefinitionTests Class Reference

Inheritance diagram for XCBuildShellScriptDefinitionTests:

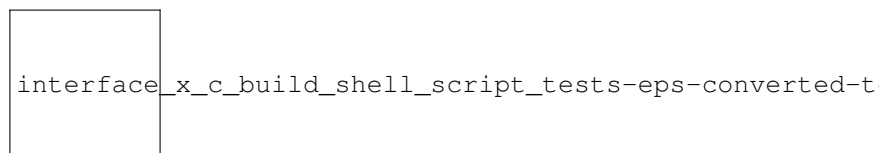


The documentation for this class was generated from the following file:

- XCBuildShellScriptDefinitionTests.m

5.11 XCBuildShellScriptTests Class Reference

Inheritance diagram for XCBuildShellScriptTests:

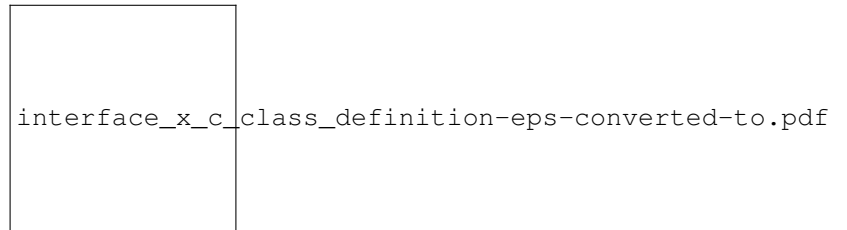


The documentation for this class was generated from the following file:

- XCBuildShellScriptTests.m

5.12 XCClassDefinition Class Reference

Inheritance diagram for XCClassDefinition:



Instance Methods

- (id) - [initWithName:](#)
- (id) - [initWithName:language:](#)
- (BOOL) - **isObjectiveC**
- (BOOL) - **isObjectiveCPlusPlus**
- (BOOL) - **isCPlusPlus**
- (NSString *) - **headerFileName**
- (NSString *) - **sourceFileName**

Class Methods

- (XCClassDefinition *) + **classDefinitionWithName:**
- (XCClassDefinition *) + **classDefinitionWithName:language:**

Protected Attributes

- NSString * **_className**
- NSString * **_header**
- NSString * **_source**

Properties

- NSString * **className**
- NSString * **header**
- NSString * **source**

5.12.1 Method Documentation

5.12.1.1 initWithName:

```
- (id) initWithName:
    (NSString*) fileName
```

Initializes a new objective-c class definition.

5.12.1.2 initWithName:language:

```
- (id) initWithName:
    (NSString*) className
    language:(ClassDefinitionLanguage) language
```

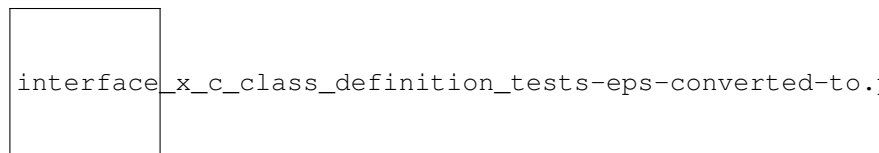
Initializes a new class definition with the specified language.

The documentation for this class was generated from the following files:

- XCClassDefinition.h
- XCClassDefinition.m

5.13 XCClassDefinitionTests Class Reference

Inheritance diagram for XCClassDefinitionTests:

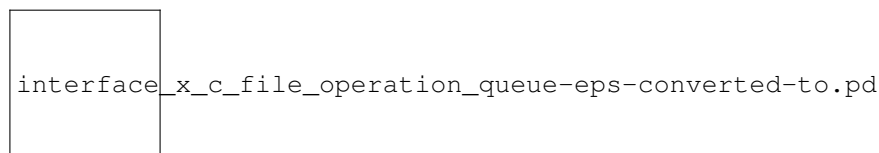


The documentation for this class was generated from the following file:

- XCClassDefinitionTests.m

5.14 XCFileOperationQueue Class Reference

Inheritance diagram for XCFileOperationQueue:



Instance Methods

- (id) - **initWithBaseDirectory:**
- (BOOL) - **fileWithName:existsInProjectDirectory:**
- (void) - **queueTextFile:inDirectory:withContents:**
- (void) - **queueDataFile:inDirectory:withContents:**
- (void) - **queueFrameworkWithFilePath:inDirectory:**
- (void) - **queueDeletion:**
- (void) - **queueDirectory:inDirectory:**
- (void) - **commitFileOperations**

The documentation for this class was generated from the following files:

- XCFileOperationQueue.h
- XCFileOperationQueue.m

5.15 XCFileOperationQueue() Category Reference

Instance Methods

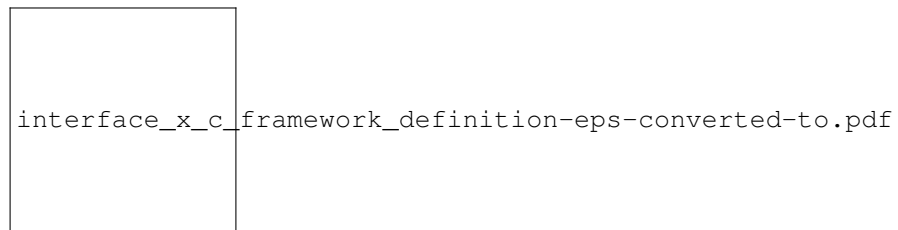
- (NSString *) - **destinationPathFor:inProjectDirectory:**
- (void) - **performFileWrites**
- (void) - **performCopyFrameworks**
- (void) - **performFileDeletions**
- (void) - **performCreateDirectories**

The documentation for this category was generated from the following file:

- XCFileOperationQueue.m

5.16 XCFrameworkDefinition Class Reference

Inheritance diagram for XCFrameworkDefinition:



Instance Methods

- (id) - **initWithFilePath:copyToDestination:**
- (id) - **initWithFilePath:copyToDestination:sourceTree:**
- (NSString *) - **fileName**

Class Methods

- (XCFrameworkDefinition *) + **frameworkDefinitionWithFilePath:copyToDestination:**
- (XCFrameworkDefinition *) + **frameworkDefinitionWithFilePath:copyToDestination:sourceTree:**

Protected Attributes

- NSString * **_filePath**
- BOOL **_copyToDestination**
- XcodeSourceTreeType **_sourceTree**

Properties

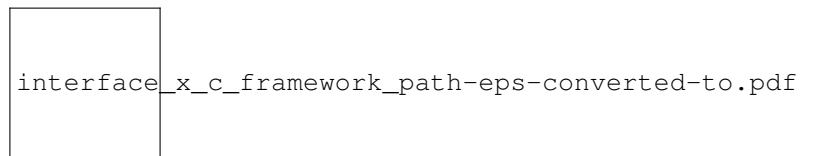
- NSString * **filePath**
- BOOL **copyToDestination**
- XcodeSourceTreeType **sourceTree**

The documentation for this class was generated from the following files:

- XCFrameworkDefinition.h
- XCFrameworkDefinition.m

5.17 XCFrameworkPath Class Reference

Inheritance diagram for XCFrameworkPath:



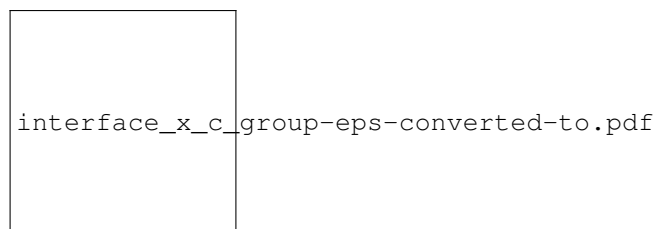
The documentation for this class was generated from the following file:

- XCGroupTests.m

5.18 XCGroup Class Reference

```
#import <XCGroup.h>
```

Inheritance diagram for XCGroup:



Instance Methods

- (id) - **initWithProject:key:alias:path:children:**
- (id) - **initWithProject:key:alias:path:children:memberType:**
- (void) - **removeFromParentGroup**
- (void) - **removeFromParentDeletingChildren:**
- (XCGroup *) - **parentGroup**
- (BOOL) - **isRootGroup**
- (BOOL) - **isEmpty**
- (void) - **addClass:**
- (void) - **addClass:toTargets:**
- (void) - **removeClass:fromTargets:**
- (void) - **removeHeader:**
- (void) - **addFramework:**
- (void) - **removeFramework:fromTargets:**
- (XCGroup *) - **addGroupWithPath:**
- (XCGroup *) - **addGroupWithAlias:**
- (XCGroup *) - **addGroupWithAlias:groupType:**
- (XCVersionGroup *) - **addVersionGroupWithPath:**
- (void) - **addFolderReference:**
- (void) - **addFileReference:withType:**
- (XCSourceFile *) - **addFramework:toTargets:**
- (void) - **addSourceFile:**
- (void) - **addXib:**
- (void) - **addXib:toTargets:**
- (void) - **addSubProject:**
- (void) - **addSubProject:toTargets:**
- (void) - **removeSubProject:**
- (void) - **removeSubProject:fromTargets:**
- (NSArray< id< XcodeGroupMember > > *) - **members**
- (NSArray< NSString * > *) - **recursiveMembers**
- (NSArray< NSString * > *) - **buildFileKeys**
- (id< XcodeGroupMember >) - **memberWithKey:**
- (id< XcodeGroupMember >) - **memberWithDisplayName:**
- (void) - **removeMemberWithKey:**

Class Methods

- (XCGroup *) + **groupWithProject:key:alias:path:children:**
- (XCGroup *) + **groupWithProject:key:alias:path:children:memberType:**

Protected Attributes

- NSString * **_pathRelativeToParent**
- NSString * **_key**
- NSString * **_alias**

Properties

- NSString * **alias**
- NSString * **pathRelativeToParent**
- NSString * **key**
- NSMutableArray< id< XcodeGroupMember > > * **children**

5.18.1 Detailed Description

Represents a `_group` container in an Xcode project. A group can contain members of type `XCSourceFile` or other groups.

5.18.2 Method Documentation

5.18.2.1 `addClass:`

```
- (void) addClass:
    (XCClassDefinition*) classDefinition
```

Adds a class to the `_group`, as specified by the `ClassDefinition`. If the `_group` already contains a class by the same name, the contents will be updated.

5.18.2.2 `addClass:toTargets:`

```
- (void) addClass:
    (XCClassDefinition *) classDefinition
    toTargets:(NSArray< XCTarget * > *) targets
```

Adds a class to the `_group`, making it a member of the specified `[targets](XCTarget)`.

5.18.2.3 `addFolderReference:`

```
- (void) addFolderReference:
    (NSString*) sourceFolder
```

Adds a reference to a folder

5.18.2.4 `addFramework:`

```
- (void) addFramework:
    (XCFrameworkDefinition*) frameworkDefinition
```

Adds a framework to the `_group`. If the `_group` already contains the framework, the contents will be updated if the framework definition's `copyToDestination` flag is yes, otherwise it will be ignored.

5.18.2.5 `addFramework:toTargets:`

```
- (XCSourceFile *) addFramework:
    (XCFrameworkDefinition *) framework
    toTargets:(NSArray< XCTarget * > *) targets
```

Adds a framework to the `_group`, making it a member of the specified targets.

5.18.2.6 addGroupWithAlias:

```
- (XCGroup *) addGroupWithAlias:
    (NSString *) alias
```

Adds a `_group` with an alias to this `_group`.

5.18.2.7 addGroupWithAlias:groupType:

```
- (XCGroup *) addGroupWithAlias:
    (NSString *) alias
    groupType:(XcodeMemberType) type
```

Adds a `_group` with an alias to this `_group` and a particular type (only `PBXGroupType` and `PBXVariantGroupType` are valid)

5.18.2.8 addGroupWithPath:

```
- (XCGroup *) addGroupWithPath:
    (NSString*) path
```

Adds a `_group` with a path relative to this `_group`.

5.18.2.9 addSourceFile:

```
- (void) addSourceFile:
    (XCSourceFileDefinition*) sourceFileDefinition
```

Adds a source file of arbitrary type - image resource, header, etc.

5.18.2.10 addSubProject:

```
- (void) addSubProject:
    (XCSubProjectDefinition*) projectDefinition
```

Adds a sub-project to the `_group`. If the `_group` already contains a sub-project by the same name, the contents will be updated. Returns boolean success/fail; if method fails, caller should assume that project file is corrupt (or file format has changed).

5.18.2.11 addSubProject:toTargets:

```
- (void) addSubProject:
    (XCSubProjectDefinition *) projectDefinition
    toTargets:(NSArray< XCTarget * > *) targets
```

Adds a sub-project to the `_group`, making it a member of the specified `[targets](XCTarget)`.

5.18.2.12 addVersionGroupWithPath:

```
- (XCVersionGroup *) addVersionGroupWithPath:
    (NSString*) path
```

Adds a version group with a path relative to this group.

5.18.2.13 addXib:

```
- (void) addXib:
    (XCXibDefinition*) xibDefinition
```

Adds a xib file to the `_group`. If the `_group` already contains a class by the same name, the contents will be updated.

5.18.2.14 addXib:toTargets:

```
- (void) addXib:
    (XCXibDefinition *) xibDefinition
    toTargets: (NSArray< XCTarget * > *) targets
```

Adds a xib to the `_group`, making it a member of the specified [targets]([XCTarget](#)).

5.18.2.15 buildFileKeys

```
- (NSArray *) buildFileKeys
```

Keys of members from this group

5.18.2.16 members

```
- (NSArray< id< XcodeGroupMember > > *) members
```

Instances of [XCSourceFile](#) and [XCGroup](#) returned as the type [XcodeGroupMember](#).

5.18.2.17 memberWithDisplayName:

```
- (id< XcodeGroupMember >) memberWithDisplayName:
    (NSString*) name
```

Returns the child with the specified name, or nil.

5.18.2.18 memberWithKey:

```
- (id< XcodeGroupMember >) memberWithKey:
    (NSString*) key
```

Returns the child with the specified key, or nil.

5.18.2.19 recursiveMembers

- (NSArray *) recursiveMembers

Keys of members from this group and any child groups.

5.18.2.20 removeClass:fromTargets:

```
- (void) removeClass:
    (XCClassDefinition*) classDefinition
    fromTargets:(NSArray*) targets
```

Removes a class from the `_group`

5.18.2.21 removeFramework:fromTargets:

```
- (void) removeFramework:
    (XCFrameworkDefinition *) frameworkDefinition
    fromTargets:(NSArray *) targets
```

Removes a framework from the `_group`

5.18.2.22 removeHeader:

```
- (void) removeHeader:
    (XCClassDefinition*) classDefinition
```

Removes a header from the `_group`

5.18.2.23 removeMemberWithKey:

```
- (void) removeMemberWithKey:
    (NSString*) key
```

Remove the member with the specified key

5.18.3 Property Documentation

5.18.3.1 alias

```
- (NSString*) alias [read], [nonatomic], [strong]
```

The alias of the group, which can be used to give the group a name other than the last path component.

See: [[XcodeGroupMember](#) displayName]

5.18.3.2 children

- (NSMutableArray<id<[XcodeGroupMember](#)> >*) children [read], [nonatomic], [strong]

An array containing the groups members as [XcodeGroupMember](#) types.

5.18.3.3 key

- (NSString*) key [read], [nonatomic], [strong]

The group's unique key.

5.18.3.4 pathRelativeToParent

- (NSString*) pathRelativeToParent [read], [nonatomic], [strong]

The path of the group relative to the group's parent.

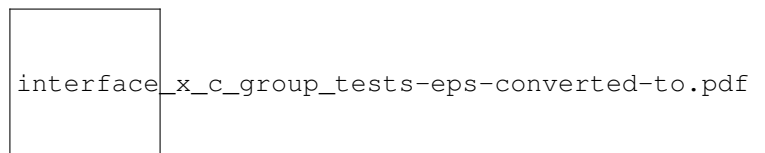
See: [[XcodeGroupMember](#) displayName]

The documentation for this class was generated from the following files:

- XCGroup.h
- XCGroup.m

5.19 XCGroupTests Class Reference

Inheritance diagram for XCGroupTests:

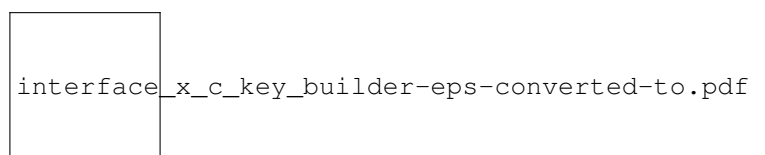


The documentation for this class was generated from the following file:

- XCGroupTests.m

5.20 XCKeyBuilder Class Reference

Inheritance diagram for XCKeyBuilder:



Instance Methods

- (id) - **initWithValueMD5HashWithBytes:length:**
- (NSString *) - **build**

Class Methods

- (XCKeyBuilder *) + **forItemNamed:**
- (XCKeyBuilder *) + **createUnique**

Protected Attributes

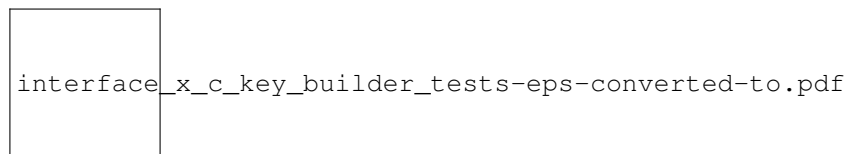
- unsigned char **_value** [HASH_VALUE_STORAGE_SIZE]

The documentation for this class was generated from the following files:

- XCKeyBuilder.h
- XCKeyBuilder.m

5.21 XCKeyBuilderTests Class Reference

Inheritance diagram for XCKeyBuilderTests:

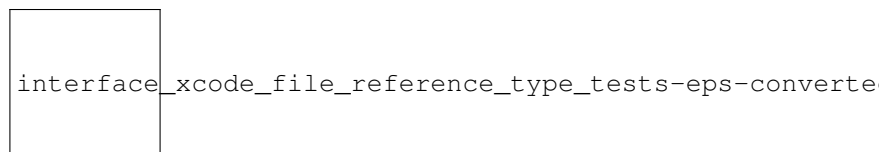


The documentation for this class was generated from the following file:

- XCKeyBuilderTests.m

5.22 XcodeFileReferenceTypeTests Class Reference

Inheritance diagram for XcodeFileReferenceTypeTests:

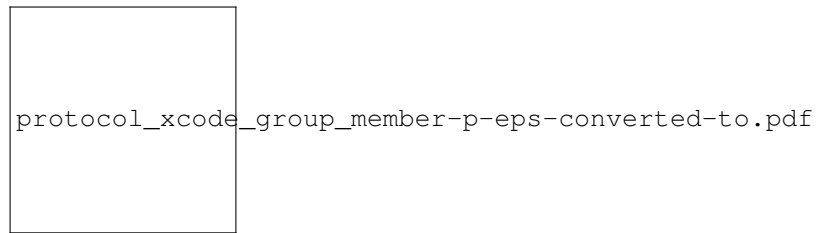


The documentation for this class was generated from the following file:

- XcodeFileReferenceTypeTests.m

5.23 <XcodeGroupMember> Protocol Reference

Inheritance diagram for <XcodeGroupMember>:



Instance Methods

- (NSString *) - **key**
- (NSString *) - **displayName**
- (NSString *) - **pathRelativeToProjectRoot**
- (XcodeMemberType) - [groupMemberType](#)

5.23.1 Method Documentation

5.23.1.1 groupMemberType

– (XcodeMemberType) groupMemberType

Group members can either be other groups (PBXGroup) or source files (PBXFileReference).

The documentation for this protocol was generated from the following file:

- XcodeGroupMember.h

5.24 XCProject Class Reference

Inheritance diagram for XCProject:



Instance Methods

- (id) - [initWithFilePath:](#)
- (id< [XcodeGroupMember](#) >) - **groupMemberWithKey:**
- (NSArray< [XCSourceFile](#) * > *) - [files](#)
- ([XCSourceFile](#) *) - [fileWithKey:](#)
- ([XCSourceFile](#) *) - [fileWithName:](#)
- (NSArray< [XCSourceFile](#) * > *) - [headerFiles](#)
- (NSArray< [XCSourceFile](#) * > *) - [objectiveCFiles](#)
- (NSArray< [XCSourceFile](#) * > *) - [objectiveCPlusPlusFiles](#)
- (NSArray< [XCSourceFile](#) * > *) - [xibFiles](#)
- (NSArray< [XCSourceFile](#) * > *) - **imagePNGFiles**
- (NSString *) - **filePath**
- (NSArray< [XCGroup](#) * > *) - [groups](#)
- ([XCGroup](#) *) - [rootGroup](#)
- (NSArray< [XCGroup](#) * > *) - [rootGroups](#)
- ([XCGroup](#) *) - [mainGroup](#)
- ([XCGroup](#) *) - [groupWithKey:](#)
- ([XCGroup](#) *) - [groupWithDisplayName:](#)
- ([XCGroup](#) *) - [groupWithPathFromRoot:](#)
- ([XCGroup](#) *) - [groupForGroupMemberWithKey:](#)
- ([XCGroup](#) *) - [groupWithSourceFile:](#)
- (void) - [pruneEmptyGroups](#)
- (NSArray *) - [versionGroups](#)
- ([XCVersionGroup](#) *) - [versionGroupWithKey:](#)
- ([XCVersionGroup](#) *) - [versionGroupWithName:](#)
- (NSArray< [XCTarget](#) * > *) - [targets](#)
- ([XCTarget](#) *) - [targetWithName:](#)
- (NSArray *) - [applicationTargets](#)
- (NSDictionary< NSString *, [XCProjectBuildConfig](#) * > *) - [configurations](#)
- ([XCProjectBuildConfig](#) *) - [configurationWithName:](#)
- ([XCProjectBuildConfig](#) *) - **defaultConfiguration**
- (void) - **removeObjectWithKey:**
- (void) - [save](#)
- (NSMutableDictionary *) - [objects](#)
- (NSMutableDictionary *) - **dataStore**
- (void) - **dropCache**
- (NSString *) - **referenceProxyKeyForName:**
- (NSArray< [XCSourceFile](#) * > *) - **buildProductsForTargets:**
- (void) - **addAsTargetDependency:toTargets:**
- (NSArray< NSString * > *) - **keysForProjectObjectsOfType:withIdentifier:singleton:required:**
- (NSMutableDictionary *) - **PBXProjectDict**
- (void) - **removeProxies:**
- (void) - **addProxies:**
- (void) - **removeFromProjectReferences:forProductsGroup:**
- (void) - **removeTargetDependencies:**
- (NSString *) - **containerItemProxyKeyForName:proxyType:**
- (NSString *) - **productsGroupForKey:**

Class Methods

- ([XCProject](#) *) + **projectWithFilePath:**

Protected Attributes

- [XCFileOperationQueue](#) * **_fileOperationQueue**
- NSString * **_filePath**
- NSMutableDictionary * **_dataStore**
- NSMutableArray * **_targets**
- NSMutableDictionary * **_groups**
- NSMutableDictionary * **_versionGroups**
- NSMutableDictionary * **_configurations**
- NSString * **_defaultConfigurationName**
- NSString * **_rootObjectKey**

Properties

- [XCFileOperationQueue](#) * **fileOperationQueue**

5.24.1 Method Documentation

5.24.1.1 applicationTargets

- (NSArray *) applicationTargets

Lists the targets which are of application type.

5.24.1.2 configurations

- (NSDictionary *) configurations

Lists the configurations in an xcode project.

5.24.1.3 configurationWithName:

- ([XCProjectBuildConfig](#) *) configurationWithName:
 (NSString*) name

Returns the configuration with the specified name, or nil.

5.24.1.4 files

- (NSArray *) files

Returns all file resources in the project, as an array of [XCSourceFile](#) objects.

5.24.1.5 fileWithKey:

```
- (XCSourceFile *) fileWithKey:
    (NSString*) key
```

Returns the project file with the specified key, or nil.

5.24.1.6 fileWithName:

```
- (XCSourceFile *) fileWithName:
    (NSString*) name
```

Returns the project file with the specified name, or nil. If more than one project file matches the specified name, which one is returned is undefined.

5.24.1.7 groupForGroupMemberWithKey:

```
- (XCGroup *) groupForGroupMemberWithKey:
    (NSString*) key
```

Returns the parent `_group` for the `_group` or file with the given key;

5.24.1.8 groups

```
- (NSArray *) groups
```

Lists the groups in an xcode project, returning an array of `XCGroup` objects.

5.24.1.9 groupWithDisplayName:

```
- (XCGroup *) groupWithDisplayName:
    (NSString*) name
```

Returns the *first* group in the project with the given name, or nil.

5.24.1.10 groupWithKey:

```
- (XCGroup *) groupWithKey:
    (NSString*) key
```

Returns the group with the given key, or nil.

5.24.1.11 groupWithPathFromRoot:

```
- (XCGroup *) groupWithPathFromRoot:
    (NSString*) path
```

Returns the `_group` with the specified display name path - the directory relative to the root `_group`. Eg Source/Main

5.24.1.12 groupWithSourceFile:

```
- (XCGroup *) groupWithSourceFile:  
    (XCSourceFile*) sourceFile
```

Returns the parent group for the group or file with the source file

5.24.1.13 headerFiles

```
- (NSArray *) headerFiles
```

Returns all header files in the project, as an array of [XCSourceFile](#) objects.

5.24.1.14 initWithFilePath:

```
- (id) initWithFilePath:  
    (NSString*) filePath
```

Creates a new project editor instance with the specified Project.xcodeproj file.

5.24.1.15 mainGroup

```
- (XCGroup *) mainGroup
```

Returns the main group under root object

5.24.1.16 objectiveCFiles

```
- (NSArray *) objectiveCFiles
```

Returns all implementation obj-c implementation files in the project, as an array of [XCSourceFile](#) objects.

5.24.1.17 objectiveCPlusPlusFiles

```
- (NSArray *) objectiveCPlusPlusFiles
```

Returns all implementation obj-c++ implementation files in the project, as an array of [XCSourceFile](#) objects.

5.24.1.18 objects

```
- (NSMutableDictionary *) objects
```

Raw project data.

5.24.1.19 pruneEmptyGroups

- (void) pruneEmptyGroups

Removes all empty groups from the project.

5.24.1.20 rootGroup

- (XCGroup *) rootGroup

Returns the root (top-level) _group.

5.24.1.21 rootGroups

- (NSArray *) rootGroups

Returns the root (top-level) groups, if there are multiple. An array of rootGroup if there is only one.

5.24.1.22 save

- (void) save

Saves a project after editing.

5.24.1.23 targets

- (NSArray *) targets

Lists the targets in an xcode project, returning an array of XCTarget objects.

5.24.1.24 targetWithName:

- (XCTarget *) targetWithName:
 (NSString*) name

Returns the target with the specified name, or nil.

5.24.1.25 versionGroups

- (NSArray *) versionGroups

Lists the version groups in an xcode project, returning an array of XCVersionGroup objects.

5.24.1.26 versionGroupWithKey:

```
- (XCVersionGroup *) versionGroupWithKey:
    (NSString*) key
```

Returns the version group with the given key, or nil.

5.24.1.27 versionGroupWithName:

```
- (XCVersionGroup *) versionGroupWithName:
    (NSString*) name
```

Returns the version group with the given file name, or nil.

5.24.1.28 xibFiles

```
- (NSArray *) xibFiles
```

Returns all the xib files in the project, as an array of [XCSourceFile](#) objects.

The documentation for this class was generated from the following files:

- XCPProject.h
- XCPProject.m

5.25 XCProject(SubProject) Category Reference

Instance Methods

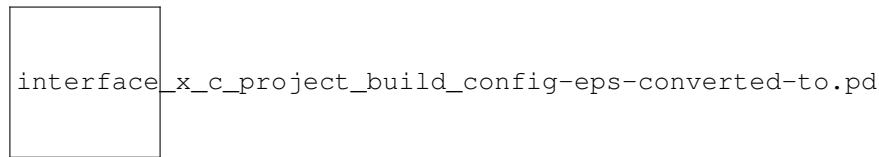
- (NSString *) - **referenceProxyKeyForName:**
- (NSArray< [XCSourceFile](#) * > *) - **buildProductsForTargets:**
- (void) - **addAsTargetDependency:toTargets:**
- (NSArray< NSString * > *) - **keysForProjectObjectsOfType:withIdentifier:singleton:required:**
- (NSMutableDictionary *) - **PBXProjectDict**
- (void) - **removeProxies:**
- (void) - **addProxies:**
- (void) - **removeFromProjectReferences:forProductsGroup:**
- (void) - **removeTargetDependencies:**
- (NSString *) - **containerItemProxyKeyForName:proxyType:**
- (NSString *) - **productsGroupKeyForKey:**

The documentation for this category was generated from the following files:

- XCProject+SubProject.h
- XCProject+SubProject.m

5.26 XCProjectBuildConfig Class Reference

Inheritance diagram for XCProjectBuildConfig:



Instance Methods

- (instancetype) - **initWithProject:key:**
- (void) - **addBuildSettings:**
- (void) - **addOrReplaceSetting:forKey:**
- (id< NSCopying >) - **valueForKey:**
- (void) - **removeSettingByKey:**

Class Methods

- (NSDictionary< NSString *, NSString * > *) + **buildConfigurationsFromArray:inProject:**
- (NSString *) + **duplicatedBuildConfigurationListWithKey:inProject:withBuildConfigurationVisitor:**

Properties

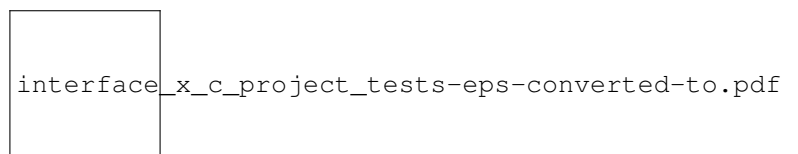
- NSString * **key**
- NSDictionary * **specifiedBuildSettings**

The documentation for this class was generated from the following files:

- XCProjectBuildConfig.h
- XCProjectBuildConfig.m

5.27 XCProjectTests Class Reference

Inheritance diagram for XCProjectTests:



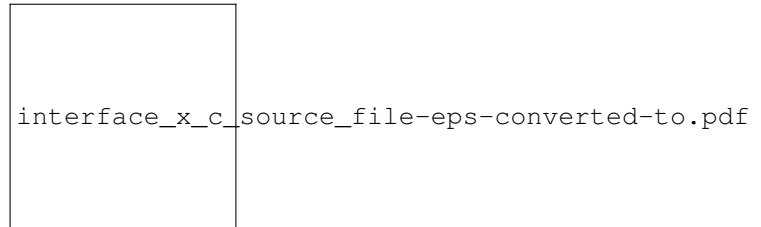
The documentation for this class was generated from the following file:

- XCProjectTests.m

5.28 XCSourceFile Class Reference

```
#import <XCSourceFile.h>
```

Inheritance diagram for XCSourceFile:



Instance Methods

- (id) - **initWithProject:key:type:name:sourceTree:path:**
- (BOOL) - **isBuildFile**
- (BOOL) - **canBecomeBuildFile**
- (XcodeMemberType) - **buildPhase**
- (NSString *) - **buildFileKey**
- (void) - **becomeBuildFile**
- (void) - **removeBuildFile**
- (void) - **setCompilerFlags:**
- (void) - **setWeakReference**

Class Methods

- (XCSourceFile *) + **sourceFileWithProject:key:type:name:sourceTree:path:**

Properties

- XcodeSourceFileType **type**
- NSString * **key**
- NSString * **name**
- NSString * **sourceTree**
- NSString * **path**

5.28.1 Detailed Description

Represents a file resource in an xcode project.

5.28.2 Method Documentation

5.28.2.1 becomeBuildFile

```
- (void) becomeBuildFile
```

Adds this file to the project as an `xcode_BuildFile`, ready to be included in targets.

Reimplemented from [<XCBuildFile>](#).

5.28.2.2 buildFileKey

```
- (NSString *) buildFileKey
```

Reimplemented from [<XCBuildFile>](#).

5.28.2.3 buildPhase

```
- (XcodeMemberType) buildPhase
```

Reimplemented from [<XCBuildFile>](#).

5.28.2.4 isBuildFile

```
- (BOOL) isBuildFile
```

If yes, indicates the file is able to be included for compilation in an [XCTarget](#).

Reimplemented from [<XCBuildFile>](#).

5.28.2.5 removeBuildFile

```
- (void) removeBuildFile
```

Removes this file as an `xcode_BuildFile` from the project.

5.28.2.6 setCompilerFlags:

```
- (void) setCompilerFlags:
    (NSString *) value
```

Method for setting Compiler Flags for individual build files

Parameters

<i>value</i>	String value to set in Compiler Flags
--------------	---------------------------------------

5.28.2.7 setWeakReference

```
- (void) setWeakReference
```

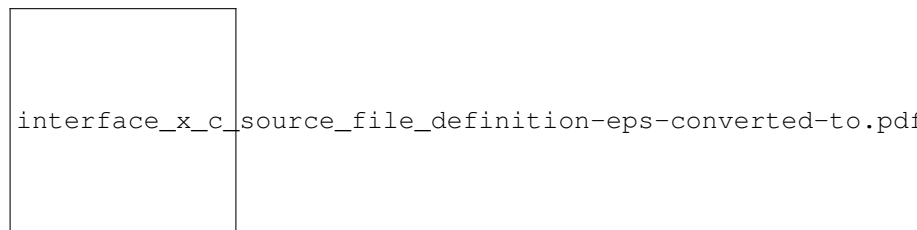
Method for setting the build file is a weak reference

The documentation for this class was generated from the following files:

- XCSourceFile.h
- XCSourceFile.m

5.29 XCSourceFileDefinition Class Reference

Inheritance diagram for XCSourceFileDefinition:

**Instance Methods**

- (id) - **initWithName:text:type:**
- (id) - **initWithName:data:type:**

Class Methods

- ([XCSourceFileDefinition](#) *) + **sourceDefinitionWithName:text:type:**
- ([XCSourceFileDefinition](#) *) + **sourceDefinitionWithName:data:type:**
- ([XCSourceFileDefinition](#) *) + **sourceDefinitionWithAssetCatalogName:**

Protected Attributes

- NSString * **_sourceFileName**
- XcodeSourceFileType **_type**
- NSData * **_data**

Properties

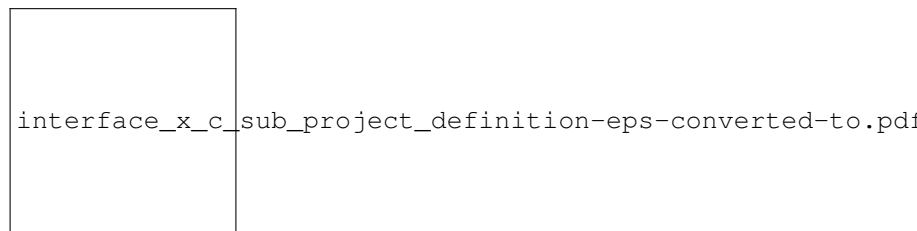
- NSString * **sourceFileName**
- NSData * **data**
- XcodeSourceFileType **type**

The documentation for this class was generated from the following files:

- XCSourceFileDefinition.h
- XCSourceFileDefinition.m

5.30 XCSubProjectDefinition Class Reference

Inheritance diagram for XCSubProjectDefinition:



Instance Methods

- (id) - **initWithName:path:parentProject:**
- (NSString *) - **projectFileName**
- (NSString *) - **fullPathName**
- (NSArray< NSString * > *) - **buildProductNames**
- (NSString *) - **projectKey**
- (NSString *) - **pathRelativeToProjectRoot**
- (void) - **initFullProjectPath:groupPath:**

Class Methods

- (XCSubProjectDefinition *) + **withName:path:parentProject:**

Protected Attributes

- NSString * **_name**
- NSString * **_path**
- XcodeSourceFileType **_type**
- XCProject * **_subProject**
- XCProject * **_parentProject**
- NSString * **_key**
- NSString * **_fullProjectPath**
- NSString * **_relativePath**

Properties

- NSString * **name**
- NSString * **path**
- XcodeSourceFileType **type**
- [XCProject](#) * **subProject**
- [XCProject](#) * **parentProject**
- NSString * **key**
- NSString * **fullProjectPath**

The documentation for this class was generated from the following files:

- XCSubProjectDefinition.h
- XCSubProjectDefinition.m

5.31 XCSubProjectDefinition() Category Reference

Properties

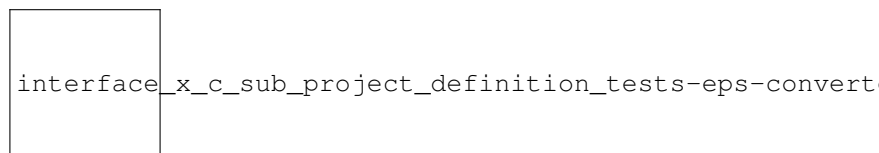
- NSString * **relativePath**

The documentation for this category was generated from the following file:

- XCSubProjectDefinition.m

5.32 XCSubProjectDefinitionTests Class Reference

Inheritance diagram for XCSubProjectDefinitionTests:



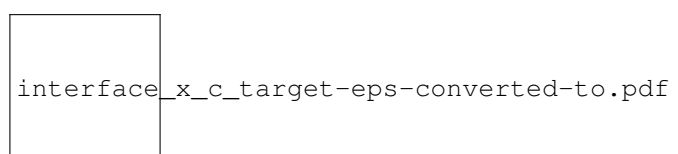
The documentation for this class was generated from the following file:

- XCSubProjectDefinitionTests.m

5.33 XCTarget Class Reference

```
#import <XCTarget.h>
```

Inheritance diagram for XCTarget:



Instance Methods

- (id) - **initWithProject:key:name:productName:productReference:productType:**
- (NSArray< [XCSourceFile](#) * > *) - **resources**
- (NSArray< id< [XCBuildFile](#) > > *) - **members**
- (NSArray< [XCBuildShellScript](#) * > *) - **buildShellScripts**
- (NSDictionary< NSString *, [XCProjectBuildConfig](#) * > *) - **configurations**
- ([XCProjectBuildConfig](#) *) - **configurationWithName:**
- ([XCProjectBuildConfig](#) *) - **defaultConfiguration**
- (void) - **addMember:**
- (void) - **makeAndAddShellScript:**
- (void) - **removeShellScriptByName:**
- (void) - **removeMemberWithKey:**
- (void) - **removeMembersWithKeys:**
- (void) - **removeResourceWithKey:**
- (void) - **removeResourcesWithKeys:**
- (void) - **addDependency:**
- (instancetype) - **duplicateWithTargetName:productName:**
- (BOOL) - **isApplicationType**

Class Methods

- ([XCTarget](#) *) + **targetWithProject:key:name:productName:productReference:productType:**

Protected Attributes

- [XCProject](#) * **_project**
- NSString * **_key**
- NSString * **_name**
- NSString * **_productName**
- NSString * **_productReference**
- NSString * **_productType**
- NSString * **_defaultConfigurationName**

Properties

- NSString * **key**
- NSString * **name**
- NSString * **productName**
- NSString * **productReference**
- NSString * **productType**

5.33.1 Detailed Description

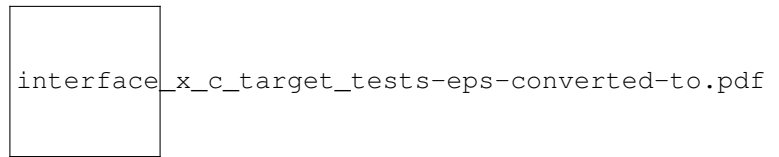
Represents a target in an xcode project.

The documentation for this class was generated from the following files:

- [XCTarget.h](#)
- [XCTarget.m](#)

5.34 XCTargetTests Class Reference

Inheritance diagram for XCTargetTests:

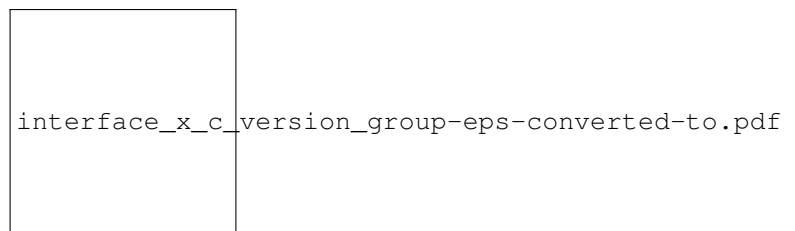


The documentation for this class was generated from the following file:

- `XCTargetTests.m`

5.35 XCVersionGroup Class Reference

Inheritance diagram for XCVersionGroup:



Instance Methods

- (id) - **initWithProject:key:path:children:currentVersion:**
- (void) - **removeFromParentGroup**
- (void) - **removeFromParentDeletingChildren:**
- (XCGroup *) - **parentGroup**
- (void) - **addDataModelSource:**
- (NSArray< XCSourceFile * > *) - **members**
- (NSArray< NSString * > *) - **buildFileKeys**
- (XCSourceFile *) - **memberWithKey:**
- (XCSourceFile *) - **memberWithDisplayName:**
- (NSDictionary *) - **asDictionary**

Class Methods

- (XCVersionGroup *) + **versionGroupWithProject:key:path:children:currentVersion:**

Protected Attributes

- NSString * **_pathRelativeToParent**
- NSString * **_key**

Properties

- NSString * [alias](#)
- NSString * [pathRelativeToParent](#)
- NSString * [key](#)
- NSMutableArray * [versions](#)
- NSString * [currentVersion](#)

5.35.1 Method Documentation

5.35.1.1 addDataModelSource:

```
- (void) addDataModelSource:
    (XCSourceFileDefinition*) sourceFileDefinition
```

Adds a source file. The only valid file type is XCDataModel

5.35.1.2 memberWithDisplayName:

```
- (id< XcodeGroupMember >) memberWithDisplayName:
    (NSString*) name
```

Returns the child with the specified name, or nil.

5.35.1.3 memberWithKey:

```
- (XCSourceFile *) memberWithKey:
    (NSString*) key
```

Returns the child with the specified key, or nil.

5.35.2 Property Documentation

5.35.2.1 alias

```
- (NSString*) alias [read], [nonatomic], [strong]
```

The alias of the group, which can be used to give the group a name other than the last path component.

See: [[XcodeGroupMember displayName](#)]

5.35.2.2 key

- (NSString*) key [read], [nonatomic], [strong]

The group's unique key.

5.35.2.3 pathRelativeToParent

- (NSString*) pathRelativeToParent [read], [nonatomic], [strong]

The path of the group relative to the group's parent.

See: [[XcodeGroupMember](#) displayName]

5.35.2.4 versions

- (NSMutableArray*) versions [read], [nonatomic], [strong]

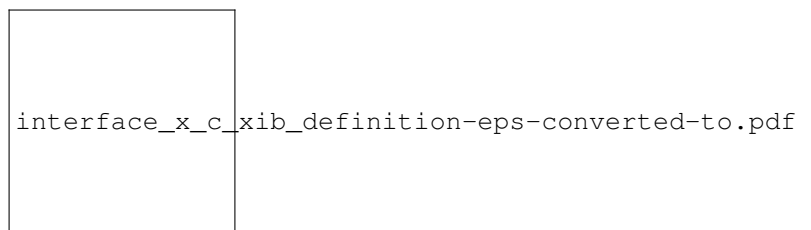
An array containing the groups members as [XcodeGroupMember](#) types.

The documentation for this class was generated from the following files:

- XCVersionGroup.h
- XCVersionGroup.m

5.36 XCXibDefinition Class Reference

Inheritance diagram for XCXibDefinition:



Instance Methods

- (id) - **initWithName:**
- (id) - **initWithName:content:**
- (NSString *) - **xibName**

Class Methods

- ([XCXibDefinition](#) *) + **xibDefinitionWithName:**
- ([XCXibDefinition](#) *) + **xibDefinitionWithName:content:**

Protected Attributes

- NSString * **_name**
- NSString * **_content**

Properties

- NSString * **name**
- NSString * **content**

The documentation for this class was generated from the following files:

- XCXibDefinition.h
- XCXibDefinition.m

Chapter 6

File Documentation

6.1 NSString+RemoveEmoji.h

```
1 #import <Foundation/Foundation.h>
2
3 @interface NSString (RemoveEmoji)
4
5 - (BOOL)isIncludingEmoji;
6
7 - (instancetype)stringByRemovingEmoji;
8
9 - (instancetype)removedEmojiString __attribute__((deprecated));
10
11 @end
```

6.2 XCAbstractDefinition.h

```
1
2 //
3 //  JASPER BLUES
4 //  Copyright 2012 - 2013 Jasper Blues
5 //  All Rights Reserved.
6 //
7 //  NOTICE: Jasper Blues permits you to use, modify, and distribute this file
8 //  in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12
13 #import <Foundation/Foundation.h>
14
15 typedef enum
16 {
17
18     XCFileOperationTypeOverwrite,
19
20     XCFileOperationTypeAcceptExisting,
21
22     XCFileOperationTypeReferenceOnly
23 } XCFileOperationType;
24
25 @interface XCAbstractDefinition : NSObject
26 {
27     XCFileOperationType _fileOperationType;
28 }
29
30 @property(n nonatomic) XCFileOperationType fileOperationType;
31
32 @end
```

6.3 XCBuildFile.h

```

1 //
2 //  XCBuildFile.h
3 //  XcodeEditor
4 //
5 //  Created by joel on 01/02/16.
6 //  Copyright © 2016 appsquickly. All rights reserved.
7 //
8
9 #import <Foundation/Foundation.h>
10 // #import "XcodeMemberType.h"
11 #import <XcodeEditor/XcodeMemberType.h>
12
13 @protocol XCBuildFile <NSObject>
14
15 - (void)becomeBuildFile;
16 - (XcodeMemberType)buildPhase;
17 - (NSString *)buildFileKey;
18 - (BOOL)isBuildFile;
19 @end

```

6.4 XCBuildShellScript.h

```

1 //
2 //  XCBuildShellScript.h
3 //  xcode-editor
4 //
5 //  Created by joel on 03/02/16.
6 //
7 //
8
9 #import <Foundation/Foundation.h>
10 #import <XcodeEditor/XcodeGroupMember.h>
11 #import <XcodeEditor/XcodeSourceFileType.h>
12
13 @class XCPProject;
14
15 @interface XCBuildShellScript : NSObject
16 {
17     NSString* _key;
18
19 @private
20     XCPProject* _project;
21     BOOL _runOnlyForDeploymentPostprocessing;
22     NSArray* _files;
23     NSArray* _inputPaths;
24     NSArray* _outputPaths;
25     NSString* _name;
26     NSString* _shellPath;
27     NSString* _shellScript;
28 }
29
30 @property(n nonatomic, strong, readonly, nonnull) NSString* key;
31 @property(n nonatomic, strong, readonly, nonnull) NSString* name;
32 @property(n nonatomic, readonly) BOOL runOnlyForDeploymentPostprocessing;
33 @property(n nonatomic, nonnull, strong, readonly) NSString* shellScript;
34 @property(n nonatomic, nonnull, strong, readonly) NSString* shellPath;
35 @property(n nonatomic, nonnull, strong, readonly) NSArray<NSString*>* files;
36 @property(n nonatomic, nonnull, strong, readonly) NSArray<NSString*>* inputPaths;
37 @property(n nonatomic, nonnull, strong, readonly) NSArray<NSString*>* outputPaths;
38
39 //-----
40 #pragma mark - Initialization & Destruction
41 //-----
42
43 + (XCBuildShellScript* _Nonnull) shellScriptWithProject: (XCPProject* _Nonnull) project
44                                     key: (NSString* _Nonnull) key
45                                     name: (NSString* _Nullable) name
46                                     files: (NSArray<NSString*>* _Nullable) files
47                                     inputPaths: (NSArray<NSString*>* _Nullable) inputPaths
48                                     outputPaths: (NSArray<NSString*>* _Nullable) outputPaths
49 runOnlyForDeploymentPostprocessing: (BOOL) runOnlyForDeploymentPostprocessing
50                                     shellPath: (NSString* _Nullable) shellPath
51                                     shellScript: (NSString* _Nonnull) shellScript;
52
53 - (instancetype _Nonnull) initWithProject: (XCPProject* _Nonnull) project
54                                     key: (NSString* _Nonnull) key
55                                     name: (NSString* _Nullable) name
56                                     files: (NSArray<NSString*>* _Nullable) files
57                                     inputPaths: (NSArray<NSString*>* _Nullable) inputPaths
58                                     outputPaths: (NSArray<NSString*>* _Nullable) outputPaths
59 runOnlyForDeploymentPostprocessing: (BOOL) runOnlyForDeploymentPostprocessing

```

```

60         shellPath: (NSString* _Nullable) shellPath
61         shellScript: (NSString* _Nonnull) shellScript;
62
63
64
65 @end

```

6.5 XCBuildShellScriptDefinition.h

```

1 //
2 //  XCBuildShellScriptDefinition.h
3 //  xcode-editor
4 //
5 //  Created by joel on 03/02/16.
6 //
7 //
8
9 #import <Foundation/Foundation.h>
10 #import <XcodeEditor/XCAbstractDefinition.h>
11
12 @interface XCBuildShellScriptDefinition : XCAbstractDefinition
13 {
14     NSString* _key;
15
16 @private
17     BOOL _runOnlyForDeploymentPostprocessing;
18     NSArray* _files;
19     NSArray* _inputPaths;
20     NSArray* _outputPaths;
21     NSString* _name;
22     NSString* _shellPath;
23     NSString* _shellScript;
24 }
25
26 @property(nonatomic, strong, readonly, nonnull) NSString* key;
27 @property(nonatomic, strong, readonly, nonnull) NSString* name;
28 @property(nonatomic, readonly) BOOL runOnlyForDeploymentPostprocessing;
29 @property(nonatomic, nonnull, strong, readonly) NSString* shellScript;
30 @property(nonatomic, nonnull, strong, readonly) NSString* shellPath;
31 @property(nonatomic, nonnull, strong, readonly) NSArray<NSString*>* files;
32 @property(nonatomic, nonnull, strong, readonly) NSArray<NSString*>* inputPaths;
33 @property(nonatomic, nonnull, strong, readonly) NSArray<NSString*>* outputPaths;
34
35 //-----
36 #pragma mark - Initialization & Destruction
37 //-----
38
39 + (XCBuildShellScriptDefinition* _Nonnull) shellScriptDefinitionWithName: (NSString* _Nullable) name
40     files: (NSArray<NSString*>* _Nullable) files
41     inputPaths: (NSArray<NSString*>* _Nullable) inputPaths
42     outputPaths: (NSArray<NSString*>* _Nullable) outputPaths
43     runOnlyForDeploymentPostprocessing: (BOOL) runOnlyForDeploymentPostprocessing
44     shellPath: (NSString* _Nullable) shellPath
45     shellScript: (NSString* _Nonnull) shellScript;
46
47 - (instancetype _Nonnull) initWithName: (NSString* _Nullable) name
48     files: (NSArray<NSString*>* _Nullable) files
49     inputPaths: (NSArray<NSString*>* _Nullable) inputPaths
50     outputPaths: (NSArray<NSString*>* _Nullable) outputPaths
51     runOnlyForDeploymentPostprocessing: (BOOL) runOnlyForDeploymentPostprocessing
52     shellPath: (NSString* _Nullable) shellPath
53     shellScript: (NSString* _Nonnull) shellScript;
54
55 @end

```

6.6 XCClassDefinition.h

```

1
2 //
3 //  JASPER BLUES
4 //  Copyright 2012 - 2013 Jasper Blues
5 //  All Rights Reserved.
6 //
7 //  NOTICE: Jasper Blues permits you to use, modify, and distribute this file
8 //  in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12
13 #import <Foundation/Foundation.h>

```

```

14 #import <XcodeEditor/XCAbstractDefinition.h>
15
16 typedef enum
17 {
18     ObjectiveC,
19     ObjectiveCPlusPlus,
20     CPlusPlus,
21 } ClassDefinitionLanguage;
22
23 @interface XCClassDefinition : XCAbstractDefinition
24 {
25
26     NSString* _className;
27     NSString* _header;
28     NSString* _source;
29
30 @private
31     ClassDefinitionLanguage _language;
32 }
33
34 @property(strong, nonatomic, readonly) NSString* className;
35 @property(nonaatomic, strong) NSString* header;
36 @property(nonaatomic, strong) NSString* source;
37
38 + (XCClassDefinition*)classDefinitionWithName:(NSString*) fileName;
39
40 + (XCClassDefinition*)classDefinitionWithName:(NSString*) className
41     language:(ClassDefinitionLanguage) language;
42
43 - (id)initWithName:(NSString*) fileName;
44
45 - (id)initWithName:(NSString*) className language:(ClassDefinitionLanguage) language;
46
47 - (BOOL)isObjectiveC;
48
49 - (BOOL)isObjectiveCPlusPlus;
50
51 - (BOOL)isCPlusPlus;
52
53 - (NSString*)headerFileName;
54
55 - (NSString*)sourceFileName;
56
57 @end

```

6.7 XCFileOperationQueue.h

```

1
2 //
3 //  JASPER BLUES
4 //  Copyright 2012 Jasper Blues
5 //  All Rights Reserved.
6 //
7 //  NOTICE: Jasper Blues permits you to use, modify, and distribute this file
8 //  in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12
13 #import <Foundation/Foundation.h>
14
15
16 @interface XCFileOperationQueue : NSObject
17 {
18
19 @private
20     NSString* _baseDirectory;
21     NSMutableDictionary* _filesToWrite;
22     NSMutableDictionary* _frameworksToCopy;
23     NSMutableArray* _filesToDelete;
24     NSMutableArray* _directoriesToCreate;
25 }
26
27
28 - (id)initWithBaseDirectory:(NSString*)baseDirectory;
29
30 - (BOOL)fileWithName:(NSString*)name existsInProjectDirectory:(NSString*)directory;
31
32 - (void)queueTextFile:(NSString*)fileName inDirectory:(NSString*)directory
33     withContents:(NSString*)contents;
34
35 - (void)queueDataFile:(NSString*)fileName inDirectory:(NSString*)directory
36     withContents:(NSData*)contents;
37
38

```

```

36 - (void)queueFrameworkWithFilePath:(NSString*)filePath inDirectory:(NSString*)directory;
37
38 - (void)queueDeletion:(NSString*)filePath;
39
40 - (void)queueDirectory:(NSString*)withName inDirectory:(NSString*)parentDirectory;
41
42 - (void)commitFileOperations;
43
44 @end
45

```

6.8 XCFrameworkDefinition.h

```

1
2 //
3 // JASPER BLUES
4 // Copyright 2012 Jasper Blues
5 // All Rights Reserved.
6 //
7 // NOTICE: Jasper Blues permits you to use, modify, and distribute this file
8 // in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12
13
14 #import <Foundation/Foundation.h>
15 #import <XcodeEditor/XCAbstractDefinition.h>
16 #import <XcodeEditor/XcodeSourceTreeType.h>
17
18 @interface XCFrameworkDefinition : XCAbstractDefinition
19 {
20     NSString* _filePath;
21     BOOL _copyToDestination;
22     XcodeSourceTreeType _sourceTree;
23 }
24
25 @property(nonatomic, strong, readonly) NSString* filePath;
26 @property(nonatomic, readonly) BOOL copyToDestination;
27 @property(nonatomic, readonly) XcodeSourceTreeType sourceTree;
28
29 + (XCFrameworkDefinition*)frameworkDefinitionWithFilePath:(NSString*)filePath
30     copyToDestination:(BOOL)copyToDestination;
31 + (XCFrameworkDefinition*)frameworkDefinitionWithFilePath:(NSString*)filePath
32     copyToDestination:(BOOL)copyToDestination sourceTree:(XcodeSourceTreeType)sourceTree;
33 - (id)initWithFilePath:(NSString*)filePath copyToDestination:(BOOL)copyToDestination;
34 - (id)initWithFilePath:(NSString*)filePath copyToDestination:(BOOL)copyToDestination
35     sourceTree:(XcodeSourceTreeType)sourceTree;
36
37 - (NSString*)fileName;
38
39
40 @end

```

6.9 XCGroup.h

```

1
2 //
3 // JASPER BLUES
4 // Copyright 2012 Jasper Blues
5 // All Rights Reserved.
6 //
7 // NOTICE: Jasper Blues permits you to use, modify, and distribute this file
8 // in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12
13 #import <Foundation/Foundation.h>
14 #import <XcodeEditor/XcodeGroupMember.h>
15 #import <XcodeEditor/XcodeSourceFileType.h>
16 #import <XcodeEditor/XCBuildFile.h>
17
18 @class XCPProject;
19 @class XCClassDefinition;
20 @class XCSourceFile;
21 @class XCXibDefinition;
22 @class XCFileOperationQueue;
23 @class XCFrameworkDefinition;

```

```

24 @class XCSourceFileDefinition;
25 @class XCSubProjectDefinition;
26 @class XCTarget;
27 @class XCVersionGroup;
28
33 @interface XCGroup : NSObject <XcodeGroupMember, XCBuildFile>
34 {
35     NSString* _pathRelativeToParent;
36     NSString* _key;
37     NSString* _alias;
38
39
40
41 @private
42     NSString* _pathRelativeToProjectRoot;
43     NSMutableArray* _children;
44     NSMutableArray* _members;
45
46     NSNumber *_isBuildFile;
47     NSString *_buildFileKey;
48
49     XCFileOperationQueue* _fileOperationQueue;
50     XCProject* _project;
51     XcodeMemberType _memberType;
52 }
53
54
55
61 @property(nonatomic, strong, readonly) NSString* alias;
62
68 @property(nonatomic, strong, readonly) NSString* pathRelativeToParent;
69
73 @property(nonatomic, strong, readonly) NSString* key;
74
78 @property(nonatomic, strong, readonly) NSMutableArray<id<XcodeGroupMember>>* children;
79
80
81 #pragma mark Initializers
82
83 + (XCGroup*)groupWithProject:(XCProject*)project key:(NSString*)key alias:(NSString*)alias
84     path:(NSString*)path children:(NSArray<id<XcodeGroupMember>>*)children;
85
86 + (XCGroup*)groupWithProject:(XCProject*)project key:(NSString*)key alias:(NSString*)alias
87     path:(NSString*)path children:(NSArray<id<XcodeGroupMember>>*)children
88     memberType:(XcodeMemberType)groupType;
89
90 - (id)initWithProject:(XCProject*)project key:(NSString*)key alias:(NSString*)alias path:(NSString*)path
91     children:(NSArray<id<XcodeGroupMember>>*)children;
92
93 - (id)initWithProject:(XCProject*)project key:(NSString*)key alias:(NSString*)alias path:(NSString*)path
94     children:(NSArray<id<XcodeGroupMember>>*)children memberType:(XcodeMemberType)groupType;
95
96 #pragma mark Parent group
97
98 - (void)removeFromParentGroup;
99
100 - (void)removeFromParentDeletingChildren:(BOOL)deleteChildren;
101
102 - (XCGroup*)parentGroup;
103
104 - (BOOL)isRootGroup;
105
106 - (BOOL)isEmpty;
107
108 #pragma mark Adding children
109
110 - (void)addClass:(XCClassDefinition*)classDefinition;
111
112 - (void)addClass:(XCClassDefinition*)classDefinition toTargets:(NSArray<XCTarget*>*)targets;
113
114 - (void)removeClass:(XCClassDefinition*)classDefinition fromTargets:(NSArray*)targets;
115
116 - (void)removeHeader:(XCClassDefinition*)classDefinition;
117
118 - (void)addFramework:(XCFrameworkDefinition*)frameworkDefinition;
119
120 - (void)removeFramework:(XCFrameworkDefinition*)frameworkDefinition fromTargets:(NSArray*)targets;
121
122 - (XCGroup*)addGroupWithPath:(NSString*)path;
123
124 - (XCGroup*)addGroupWithAlias:(NSString*)alias;
125
126 - (XCGroup*)addGroupWithAlias:(NSString*)alias groupType:(XcodeMemberType)type;
127
128 - (XCVersionGroup*)addVersionGroupWithPath:(NSString*)path;
129
130 - (void)addFolderReference:(NSString*)sourceFolder;
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160

```

```

161 - (void)addFileReference:(NSString *)filePath withType:(XcodeSourceFileType)type;
162
166 - (XCSourceFile*)addFramework:(XCFrameworkDefinition*)framework toTargets:(NSArray<XCTarget*>*)targets;
167
171 - (void)addSourceFile:(XCSourceFileDefinition*)sourceFileDefinition;
172
173
177 - (void)addXib:(XCXibDefinition*)xibDefinition;
178
182 - (void)addXib:(XCXibDefinition*)xibDefinition toTargets:(NSArray<XCTarget*>*)targets;
183
190 - (void)addSubProject:(XCSubProjectDefinition*)projectDefinition;
191
195 - (void)addSubProject:(XCSubProjectDefinition*)projectDefinition toTargets:(NSArray<XCTarget*>*)targets;
196
197 - (void)removeSubProject:(XCSubProjectDefinition*)projectDefinition;
198
199 - (void)removeSubProject:(XCSubProjectDefinition*)projectDefinition
    fromTargets:(NSArray<XCTarget*>*)targets;
200
201
202 #pragma mark Locating children
206 - (NSArray<id<XcodeGroupMember*>*)members;
207
211 - (NSArray<NSString*>*)recursiveMembers;
212
216 - (NSArray<NSString*>*)buildFileKeys;
217
221 - (id <XcodeGroupMember>)memberWithKey:(NSString*)key;
222
226 - (id <XcodeGroupMember>)memberWithDisplayName:(NSString*)name;
227
231 - (void)removeMemberWithKey:(NSString*)key;
232
233 @end

```

6.10 XCKeyBuilder.h

```

1
2 //
3 // JASPER BLUES
4 // Copyright 2012 - 2013 Jasper Blues
5 // All Rights Reserved.
6 //
7 // NOTICE: Jasper Blues permits you to use, modify, and distribute this file
8 // in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12
13 #import <Foundation/Foundation.h>
14
15
16 #define HASH_VALUE_STORAGE_SIZE 48
17 #define MD5_DIGEST_LENGTH 16
18
19 typedef struct
20 {
21     char value[MD5_DIGEST_LENGTH];
22 } HashValueMD5Hash;
23
24
25 @interface XCKeyBuilder : NSObject
26 {
27     unsigned char _value[HASH_VALUE_STORAGE_SIZE];
28 }
29
30 + (XCKeyBuilder*)forItemNamed:(NSString*)name;
31
32 + (XCKeyBuilder*)createUnique;
33
34 - (id)initWithHashValueMD5HashWithBytes:(const void*)bytes length:(NSUInteger)length;
35
36 - (NSString*)build;
37
38 @end
39

```

6.11 XcodeEditor.h

```

1

```

```

2 //
3 //  JASPER BLUES
4 //  Copyright 2012 Jasper Blues
5 //  All Rights Reserved.
6 //
7 //  NOTICE: Jasper Blues permits you to use, modify, and distribute this file
8 //  in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12 #import <Foundation/Foundation.h>
13
14 FOUNDATION_EXPORT double XcodeEditorVersionNumber;
15
16 FOUNDATION_EXPORT const unsigned char XcodeEditorVersionString[];
17
18 // In this header, you should import all the public headers of your framework using statements like
19 // #import <XcodeEditor/PublicHeader.h>
20
21
22
23 #import <XcodeEditor/XCAbstractDefinition.h>
24 #import <XcodeEditor/XCGroup.h>
25 #import <XcodeEditor/XCClassDefinition.h>
26 #import <XcodeEditor/XCFileOperationQueue.h>
27 #import <XcodeEditor/XCFrameworkDefinition.h>
28 #import <XcodeEditor/XCProject.h>
29 #import <XcodeEditor/XCSourceFile.h>
30 #import <XcodeEditor/XCSourceFileDefinition.h>
31 #import <XcodeEditor/XCSubProjectDefinition.h>
32 #import <XcodeEditor/XCTarget.h>
33 #import <XcodeEditor/XCXibDefinition.h>
34 #import <XcodeEditor/XCKeyBuilder.h>
35 #import <XcodeEditor/XCProject+SubProject.h>
36 #import <XcodeEditor/XCProjectBuildConfig.h>
37 #import <XcodeEditor/XCBuildShellScript.h>
38 #import <XcodeEditor/XCBuildShellScriptDefinition.h>
39 #import <XcodeEditor/XCVersionGroup.h>

```

6.12 XcodeGroupMember.h

```

1
2 //
3 //  JASPER BLUES
4 //  Copyright 2012 Jasper Blues
5 //  All Rights Reserved.
6 //
7 //  NOTICE: Jasper Blues permits you to use, modify, and distribute this file
8 //  in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12
13
14 #import <XcodeEditor/XcodeMemberType.h>
15
16 @protocol XcodeGroupMember <NSObject>
17
18 - (NSString*)key;
19
20 - (NSString*)displayName;
21
22 - (NSString*)pathRelativeToProjectRoot;
23
24 - (XcodeMemberType)groupMemberType;
25 @end

```

6.13 XcodeMemberType.h

```

1
2 //
3 //  JASPER BLUES
4 //  Copyright 2012 Jasper Blues
5 //  All Rights Reserved.
6 //
7 //  NOTICE: Jasper Blues permits you to use, modify, and distribute this file
8 //  in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12 #import <Foundation/Foundation.h>
13
14 typedef enum

```



```

15 {
16     PBXNilType,
17     PBXBuildFileType,
18     PBXContainerItemProxyType,
19     PBXCopyFilesBuildPhaseType,
20     PBXFileReferenceType,
21     PBXFrameworksBuildPhaseType,
22     PBXGroupType,
23     PBXNativeTargetType,
24     PBXProjectType,
25     PBXReferenceProxyType,
26     PBXResourcesBuildPhaseType,
27     PBXSourcesBuildPhaseType,
28     PBXTargetDependencyType,
29     PBXVariantGroupType,
30     XCBuildConfigurationType,
31     XCConfigurationListType,
32     PBXShellScriptBuildPhase,
33     XCVersionGroupType
34 } XcodeMemberType;
35
36 @interface NSString (XcodeMemberTypeExtensions)
37
38 + (NSString*)xce_stringFromMemberType:(XcodeMemberType)nodeType;
39
40 - (XcodeMemberType)xce_asMemberType;
41
42 - (BOOL)xce_hasFileReferenceType;
43 - (BOOL)xce_hasFileReferenceOrReferenceProxyType;
44 - (BOOL)xce_hasReferenceProxyType;
45 - (BOOL)xce_hasGroupType;
46 - (BOOL)xce_hasProjectType;
47 - (BOOL)xce_hasNativeTargetType;
48 - (BOOL)xce_hasBuildFileType;
49 - (BOOL)xce_hasBuildConfigurationType;
50 - (BOOL)xce_hasContainerItemProxyType;
51 - (BOOL)xce_hasResourcesBuildPhaseType;
52 - (BOOL)xce_hasShellScriptBuildPhase;
53 - (BOOL)xce_hasSourcesOrFrameworksBuildPhaseType;
54 - (BOOL)xce_hasVersionedGroupType;
55
56 @end
57

```

6.14 XcodeSourceFileType.h

```

1
2 //
3 // JASPER BLUES
4 // Copyright 2012 Jasper Blues
5 // All Rights Reserved.
6 //
7 // NOTICE: Jasper Blues permits you to use, modify, and distribute this file
8 // in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12 #import <Foundation/Foundation.h>
13
14 typedef NSInteger XcodeSourceFileType
15 {
16     FileTypeNil = 0, // Unknown filetype
17     Framework = 1, // .framework
18     PropertyList = 2, // .plist
19     SourceCodeHeader = 3, // .h
20     SourceCodeObjC = 4, // .m
21     SourceCodeObjCPlusPlus = 5, // .mm
22     SourceCodeCPlusPlus = 6, // .cpp
23     XibFile = 7, // .xib
24     ImageResourcePNG = 8, // .png
25     Bundle = 9, // .bundle .octet
26     Archive = 10, // .a files
27     HTML = 11, // HTML file
28     TEXT = 12, // Some text file
29     XcodeProject = 13, // .xcodeproj
30     Folder = 14, // a Folder reference
31     AssetCatalog = 15, // Assets
32     SourceCodeSwift = 16, // .swift
33     Application = 17, // .app (wrapper.application)
34     Playground = 18, // .playground (file.playground)
35     ShellScript = 19, // no suffix Xcode seems to detect (text.script.sh)
36     Markdown = 20, // .md (net.daringfileball.markdown)
37     XMLPropertyList = 21, // .plist (text.plist.xml)
38     Storyboard = 22, // .storyboard (file.storyboard)

```

```

39     XCConfig = 23,                // .xcconfig
40     XCDataModel = 24,            // .xcdatamodel
41     LocalizableStrings = 25     // .strings
42 };
43
44 NSString* NSStringFromXCSourceFileType(XcodeSourceFileType type);
45
46 XcodeSourceFileType XCSourceFileTypeFromStringRepresentation(NSString* string);
47
48 XcodeSourceFileType XCSourceFileTypeFromFileName(NSString* fileName);
49

```

6.15 XcodeSourceTreeType.h

```

1
2 //
3 // JASPER BLUES
4 // Copyright 2012 Jasper Blues
5 // All Rights Reserved.
6 //
7 // NOTICE: Jasper Blues permits you to use, modify, and distribute this file
8 // in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12 #import <Foundation/Foundation.h>
13
14 typedef enum
15 {
16     SourceTreeSDKRoot,
17     SourceTreeGroup
18 } XcodeSourceTreeType;
19
20 @interface NSString (XcodeSourceTreeTypeExtensions)
21
22 + (NSString*)xce_stringFromSourceTreeType:(XcodeSourceTreeType)nodeType;
23
24 - (XcodeSourceTreeType)xce_asSourceTreeType;
25
26 @end
27

```

6.16 XCProject+SubProject.h

```

1
2 //
3 // JASPER BLUES
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6 //
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8 // in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12
13
14 #import <Foundation/Foundation.h>
15 #import <XcodeEditor/XCProject.h>
16
17 @interface XCProject (SubProject)
18
19
20 - (NSString *)referenceProxyKeyForName:(NSString *)name;
21
22 - (NSArray<XCSourceFile*> *)buildProductsForTargets:(NSString *)xcodeprojKey;
23
24 - (void)addAsTargetDependency:(XCSubProjectDefinition *)xcodeprojDefinition
25     toTargets:(NSArray<XCTarget*>*)targets;
26
27 - (NSArray<NSString*> *)keysForProjectObjectsOfType:(XcodeMemberType)memberType withIdentifier:(NSString
28     *)identifier
29     singleton:(BOOL)singleton required:(BOOL)required;
30
31 - (NSMutableDictionary *)PBXProjectDict;
32
33 - (void)removeProxies:(NSString *)xcodeprojKey;
34
35 - (void)addProxies:(XCSubProjectDefinition *)xcodeproj;
36
37 - (void)removeFromProjectReferences:(NSString *)key forProductsGroup:(NSString *)productsGroupKey;
38

```

```

36
37 - (void)removeTargetDependencies:(NSString *)name;
38
39 - (NSString *)containerItemProxyKeyForName:(NSString *)name proxyType:(NSString *)proxyType;
40
41 - (NSString *)productsGroupKeyForKey:(NSString *)key;
42
43 @end

```

6.17 XCProject.h

```

1
2 //
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9 //
10
11
12 #import <Foundation/Foundation.h>
13 #import <XcodeEditor/XcodeMemberType.h>
14 #import <XcodeEditor/XcodeSourceFileType.h>
15 #import <XcodeEditor/XcodeGroupMember.h>
16
17 @class XCClassDefinition;
18 @class XCGroup;
19 @class XCFileOperationQueue;
20 @class XCSourceFile;
21 @class XCTarget;
22 @class XCSubProjectDefinition;
23 @class XCProjectBuildConfig;
24 @class XCVersionGroup;
25
26 @interface XCProject : NSObject
27 {
28     @protected
29     XCFileOperationQueue* _fileOperationQueue;
30
31     NSString* _filePath;
32     NSMutableDictionary* _dataStore;
33     NSMutableArray* _targets;
34
35     NSMutableDictionary* _groups;
36     NSMutableDictionary* _versionGroups;
37     NSMutableDictionary* _configurations;
38
39     NSString* _defaultConfigurationName;
40     NSString* _rootObjectKey;
41 }
42
43 @property(n nonatomic, strong, readonly) XCFileOperationQueue* fileOperationQueue;
44
45 //-----
46 #pragma mark - Initialization & Destruction
47 //-----
48
49
50 + (XCProject*)projectWithFilePath:(NSString*)filePath;
51
52 - (id)initWithFilePath:(NSString*)filePath;
53
54 //-----
55 #pragma mark Group Member
56 //-----
57
58 - (id<XcodeGroupMember>)groupMemberWithKey:(NSString *)key;
59
60 //-----
61 #pragma mark Files
62 //-----
63
64 - (NSArray<XCSourceFile*>*)files;
65
66 - (XCSourceFile*)fileWithKey:(NSString*)key;
67
68 - (XCSourceFile*)fileWithName:(NSString*)name;
69
70 - (NSArray<XCSourceFile*>*)headerFiles;
71
72 - (NSArray<XCSourceFile*>*)objectiveCFiles;
73
74 - (NSArray<XCSourceFile*>*)objectiveCPlusPlusFiles;
75
76 - (NSArray<XCSourceFile*>*)xibFiles;
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98

```

```

99 - (NSArray<XCSourceFile*>*) imagePNGFiles;
100
101 - (NSString*) filePath;
102
103
104 //-----
105 #pragma mark Groups
109 - (NSArray<XCGroup*>*) groups;
110
114 - (XCGroup*) rootGroup;
115
119 - (NSArray<XCGroup*>*) rootGroups;
120
124 - (XCGroup *) mainGroup;
125
129 - (XCGroup*) groupWithKey: (NSString*) key;
130
134 - (XCGroup*) groupWithDisplayName: (NSString*) name;
135
139 - (XCGroup*) groupWithPathFromRoot: (NSString*) path;
140
144 - (XCGroup*) groupForGroupMemberWithKey: (NSString*) key;
145
149 - (XCGroup*) groupWithSourceFile: (XCSourceFile*) sourceFile;
150
154 - (void) pruneEmptyGroups;
155
156 //-----
157 #pragma mark VersionGroups
161 - (NSArray*) versionGroups;
162
166 - (XCVersionGroup*) versionGroupWithKey: (NSString*) key;
167
171 - (XCVersionGroup*) versionGroupWithName: (NSString*) name;
172
173 //-----
174 #pragma mark Targets
178 - (NSArray<XCTarget*>*) targets;
179
183 - (XCTarget*) targetWithName: (NSString*) name;
184
188 - (NSArray*) applicationTargets;
189
190 #pragma mark Configurations
194 - (NSDictionary<NSString*, XCProjectBuildConfig*>*) configurations;
198 - (XCProjectBuildConfig*) configurationWithName: (NSString*) name;
199
200 - (XCProjectBuildConfig *) defaultConfiguration;
201
202 //-----
203 #pragma mark Deletion
204
205 - (void) removeObjectWithKey: (NSString*) key;
206
207 //-----
208 #pragma mark Saving
212 - (void) save;
213
214
215 //-----
219 - (NSMutableDictionary*) objects;
220
221 - (NSMutableDictionary*) dataStore;
222
223 - (void) dropCache;
224
225 @end

```

6.18 XCProjectBuildConfig.h

```

1
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9 //
10
11
12 #import <Foundation/Foundation.h>
13
14 @class XCProject;

```

```

15
16 @interface XCProjectBuildConfig : NSObject
17 {
18 @private
19     __weak XCProject* _project;
20     NSString* _key;
21
22     NSMutableDictionary* _buildSettings;
23     NSMutableDictionary* _xcconfigSettings;
24 }
25 @property(nonatomic, strong, readonly) NSString* key;
26 @property(nonatomic, readonly) NSDictionary* specifiedBuildSettings;
27
28 + (NSDictionary<NSString*,NSString*>*)buildConfigurationsFromArray:(NSArray<XCProjectBuildConfig*>*)array
   inProject:(XCProject*)project;
29
30 - (instancetype)initWithProject:(XCProject*)project key:(NSString*)key;
31
32 - (void)addBuildSettings:(NSDictionary*)buildSettings;
33
34 - (void)addOrReplaceSetting:(id <NSCopying>)setting forKey:(NSString*)key;
35
36 - (id <NSCopying>)valueForKey:(NSString*)key;
37
38 - (void)removeSettingByKey:(NSString*)key;
39
40 + (NSString*)duplicatedBuildConfigurationListWithKey:(NSString*)buildConfigurationListKey
   inProject:(XCProject*)project
   withBuildConfigurationVisitor:(void (^)(NSMutableDictionary*)buildConfigurationVisitor;
41
42
43 @end

```

6.19 XCSourceFile.h

```

1
2 //
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6 //
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9 //
10
11
12
13
14 #import <Foundation/Foundation.h>
15 #import <XcodeEditor/XcodeGroupMember.h>
16 #import <XcodeEditor/XcodeSourceFileType.h>
17 #import <XcodeEditor/XCBuildFile.h>
18
19 @class XCProject;
20
21 @interface XCSourceFile : NSObject<XcodeGroupMember, XCBuildFile>
22 {
23
24 @private
25     XCProject *_project;
26
27     NSNumber *_isBuildFile;
28     NSString *_buildFileKey;
29     NSString *_name;
30     NSString *_sourceTree;
31     NSString *_key;
32     NSString *_path;
33     XcodeSourceFileType _type;
34 }
35
36 @property (nonatomic, readonly) XcodeSourceFileType type;
37 @property (nonatomic, strong, readonly) NSString *key;
38 @property (nonatomic, strong) NSString *name;
39 @property (nonatomic, strong, readonly) NSString *sourceTree;
40 @property (nonatomic, strong) NSString *path;
41
42 + (XCSourceFile *)sourceFileWithProject:(XCProject *)project key:(NSString *)key
   type:(XcodeSourceFileType)type
   name:(NSString *)name sourceTree:(NSString *)tree path:(NSString
   *)path;
43
44 - (id)initWithProject:(XCProject *)project key:(NSString *)key type:(XcodeSourceFileType)type
   name:(NSString *)name
   sourceTree:(NSString *)tree path:(NSString *)path;
45
46
47
48
49
50

```

```

54 - (BOOL)isBuildFile;
55
56 - (BOOL)canBecomeBuildFile;
57
58 - (XcodeMemberType)buildPhase;
59
60 - (NSString *)buildFileKey;
61
65 - (void)becomeBuildFile;
66
70 - (void)removeBuildFile;
71
77 - (void)setCompilerFlags:(NSString *)value;
78
82 - (void)setWeakReference;
83
84 @end

```

6.20 XCSourceFileDefinition.h

```

1
2 //
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9 //
10
11
12
13
14 #import <Foundation/Foundation.h>
15 #import <XcodeEditor/XCAbstractDefinition.h>
16 #import <XcodeEditor/XcodeSourceFileType.h>
17
18 @interface XCSourceFileDefinition : XCAbstractDefinition
19 {
20
21     NSString* _sourceFileName;
22     XcodeSourceFileType _type;
23     NSData* _data;
24
25 }
26
27 @property(nonatomic, strong, readonly) NSString* sourceFileName;
28 @property(nonatomic, strong, readonly) NSData* data;
29 @property(nonatomic, readonly) XcodeSourceFileType type;
30
31 + (XCSourceFileDefinition*)sourceDefinitionWithName:(NSString*)name text:(NSString*)text
    type:(XcodeSourceFileType)type;
32
33 + (XCSourceFileDefinition*)sourceDefinitionWithName:(NSString*)name data:(NSData*)data
    type:(XcodeSourceFileType)type;
34
35 // For now you can add Asset Catalog only as reference
36 + (XCSourceFileDefinition*)sourceDefinitionWithAssetCatalogName:(NSString*)name;
37
38 - (id)initWithName:(NSString*)name text:(NSString*)text type:(XcodeSourceFileType)type;
39
40 - (id)initWithName:(NSString*)name data:(NSData*)data type:(XcodeSourceFileType)type;
41
42
43 @end

```

6.21 XCSubProjectDefinition.h

```

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9 //
10
11
12
13

```

```

14 #import <Foundation/Foundation.h>
15 #import <XcodeEditor/XCAbstractDefinition.h>
16 #import <XcodeEditor/XcodeSourceFileType.h>
17
18 @class XCPProject;
19
20
21 @interface XCSubProjectDefinition : XCAbstractDefinition
22 {
23
24     NSString *_name;
25     NSString *_path;
26     XcodeSourceFileType _type;
27     XCPProject *_subProject;
28     XCPProject *_parentProject;
29     NSString *_key;
30     NSString *_fullProjectPath;
31     NSString *_relativePath;
32 }
33
34
35 @property (nonatomic, strong, readonly) NSString *name;
36 @property (nonatomic, strong, readonly) NSString *path;
37 @property (nonatomic, readonly) XcodeSourceFileType type;
38 @property (nonatomic, strong, readonly) XCPProject *subProject;
39 @property (nonatomic, strong, readonly) XCPProject *parentProject;
40 @property (nonatomic, strong, readonly) NSString *key;
41 @property (nonatomic, strong, readwrite) NSString *fullProjectPath;
42
43 + (XCSubProjectDefinition *)withName:(NSString *)name path:(NSString *)path parentProject:(XCPProject
    *)parentProject;
44
45 - (id)initWithName:(NSString *)name path:(NSString *)path parentProject:(XCPProject *)parentProject;
46
47 - (NSString *)projectFileName;
48
49 - (NSString *)fullPathName;
50
51 - (NSArray<NSString*> *)buildProductNames;
52
53 - (NSString *)projectKey;
54
55 - (NSString *)pathRelativeToProjectRoot;
56
57 - (void)initFullProjectPath:(NSString *)fullProjectPath groupPath:(NSString *)groupPath;
58
59 @end

```

6.22 XCTarget.h

```

1
2 //
3 // JASPER BLUES
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6 //
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9 //
10
11
12
13 #import <Foundation/Foundation.h>
14
15 @class XCPProject;
16 @class XCSourceFile;
17 @class XCPProjectBuildConfig;
18 @class XCBuildShellScript;
19 @class XCBuildShellScriptDefinition;
20 @protocol XCBuildFile;
21
22
23 @interface XCTarget : NSObject
24 {
25
26     XCPProject* _project;
27     NSString* _key;
28     NSString* _name;
29     NSString* _productName;
30     NSString* _productReference;
31     NSString* _productType;
32     NSString* _defaultConfigurationName;
33
34 @private
35     NSMutableArray* _members;
36
37

```

```

38     NSMutableArray* _resources;
39     NSMutableDictionary* _configurations;
40     NSMutableArray *_buildShellScripts;
41 }
42
43 @property(n nonatomic, strong, readonly) NSString* key;
44 @property(n nonatomic, strong) NSString* name;
45 @property(n nonatomic, strong) NSString* productName;
46 @property(n nonatomic, strong, readonly) NSString* productReference;
47 @property(n nonatomic, strong, readonly) NSString* productType;
48
49 + (XCTarget*)targetWithProject:(XCProject*)project key:(NSString*)key name:(NSString*)name
    productName:(NSString*)productName
    productReference:(NSString*)productReference productType:(NSString*)productType;
50
51
52 - (id)initWithProject:(XCProject*)project key:(NSString*)key name:(NSString*)name
    productName:(NSString*)productName
    productReference:(NSString*)productReference productType:(NSString*)productType;
53
54
55 - (NSArray<XCSourceFile*>*)resources;
56
57 - (NSArray<id<XCBuildFile*>*)members;
58
59 - (NSArray<XCBuildShellScript*>*)buildShellScripts;
60
61 - (NSDictionary<NSString*,XCProjectBuildConfig*>*)configurations;
62
63 - (XCProjectBuildConfig *)configurationWithName:(NSString*)name;
64
65 - (XCProjectBuildConfig *)defaultConfiguration;
66
67 - (void)addMember:(id<XCBuildFile*>)member;
68
69 - (void)makeAndAddShellScript:(XCBuildShellScriptDefinition*)shellScript;
70
71 - (void)removeShellScriptByName:(NSString*)name;
72
73 - (void)removeMemberWithKey:(NSString*)key;
74
75 - (void)removeMembersWithKeys:(NSArray<NSString*>*)keys;
76
77 - (void)removeResourceWithKey:(NSString*)key;
78
79 - (void)removeResourcesWithKeys:(NSArray<NSString*>*)keys;
80
81 - (void)addDependency:(NSString*)key;
82
83 - (instancetype)duplicateWithTargetName:(NSString*)targetName productName:(NSString*)productName;
84
85 - (BOOL)isApplicationType;
86
87 @end
88

```

6.23 XCVersionGroup.h

```

1 //
2 //  XC CoreDataModelVersioned.h
3 //  xcode-editor
4 //
5 //  Created by joel on 04/09/15.
6 //
7 //
8
9 #import <Foundation/Foundation.h>
10 #import <XcodeEditor/XcodeGroupMember.h>
11 #import <XcodeEditor/XCGroup.h>
12 #import <XcodeEditor/XCBuildFile.h>
13
14 @class XCProject;
15 @class XCClassDefinition;
16 @class XCSourceFile;
17 @class XCXibDefinition;
18 @class XCFileOperationQueue;
19 @class XCFrameworkDefinition;
20 @class XCSourceFileDefinition;
21 @class XCSubProjectDefinition;
22
23 @interface XCVersionGroup : NSObject <XcodeGroupMember, XCBuildFile>
24 {
25     NSString* _pathRelativeToParent;
26     NSString* _key;
27

```



```

28 @private
29     NSString* _pathRelativeToProjectRoot;
30     NSMutableArray* _children;
31     NSMutableArray* _members;
32     NSString *_currentVersion;
33     NSString *_versionGroupType;
34
35     NSNumber *_isBuildFile;
36     NSString *_buildFileKey;
37
38     XCFileOperationQueue* _fileOperationQueue; // weak
39     XCPProject* _project;
40
41 }
42
43
44
45 @property(nonatomic, strong, readonly) NSString* alias;
46
47 @property(nonatomic, strong, readonly) NSString* pathRelativeToParent;
48
49 @property(nonatomic, strong, readonly) NSString* key;
50
51 @property(nonatomic, strong, readonly) NSMutableArray* versions;
52
53 @property(nonatomic, strong) NSString*currentVersion;
54
55 #pragma mark Initializers
56
57 + (XCVersionGroup*)versionGroupWithProject:(XCPProject*)project key:(NSString*)key path:(NSString*)path
58     children:(NSArray*)children currentVersion:(NSString*)currentVersion;
59
60 - (id)initWithProject:(XCPProject*)project key:(NSString*)key path:(NSString*)path
61     children:(NSArray*)children currentVersion:(NSString*)currentVersion;
62
63 #pragma mark Parent group
64
65 - (void)removeFromParentGroup;
66
67 - (void)removeFromParentDeletingChildren:(BOOL)deleteChildren;
68
69 - (XCGroup*)parentGroup;
70
71 #pragma mark Adding children
72
73 - (void)addDataModelSource:(XCSourceFileDefinition*)sourceFileDefinition;
74
75 #pragma mark Locating children
76
77 - (NSArray<XCSourceFile*>*)members;
78
79 - (NSArray<NSString*>*)buildFileKeys;
80
81 - (XCSourceFile*)memberWithKey:(NSString*)key;
82
83 - (XCSourceFile*)memberWithDisplayName:(NSString*)name;
84
85 - (NSDictionary*)asDictionary;
86
87 @end

```

6.24 XCXibDefinition.h

```

1
2 //
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9 //
10
11
12
13
14 #import <Foundation/Foundation.h>
15 #import <XcodeEditor/XCAbstractDefinition.h>
16
17
18 @interface XCXibDefinition : XCAbstractDefinition
19 {
20     NSString* _name;
21     NSString* _content;

```

```
22 }
23 @property(nonatomic, strong, readonly) NSString* name;
24 @property(nonatomic, strong) NSString* content;
25
26 + (XCXibDefinition*)xibDefinitionWithName:(NSString*)name;
27
28 + (XCXibDefinition*)xibDefinitionWithName:(NSString*)name content:(NSString*)content;
29
30 - (id)initWithName:(NSString*)name;
31
32 - (id)initWithName:(NSString*)name content:(NSString*)content;
33
34 - (NSString*)xibName;
35
36 @end
```

6.25 ClassCalledJanine.h

```
1 #import <Foundation/Foundation.h>
2
3
4 @interface ClassCalledJanine : NSObject
5 @end
```

6.26 XCTestResourceUtils.h

```
1
2 //
3 // JASPER BLUES
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6 //
7 // NOTICE: Jasper Blues permits you to use, modify, and distribute this file
8 // in accordance with the terms of the license agreement accompanying it.
9 //
10
11
12
13 #import <Foundation/Foundation.h>
14
15 //TODO: Just use one sample project
16
17 NSString *XCTestResourcePath(void);
18
19 NSString *XCSample1FolderPath(void);
20
21 NSString *XCSample1XcodeProjectPath(void);
22
23 NSString *XCBox2dSampleContainingFolderPath(void);
24
25 NSString *XCBox2dSampleProjectPath(void);
26
27 NSString *XCMasterDetailContainerFolderPath(void);
28
29 NSString *XCMasterDetailProjectPath(void);
30
31
32 NSString *NSStringWithXCTestResource(NSString *resourceName);
33
34 NSData *NSDataWithXCTestResource(NSString *resourceName);
```