

How to create project templates in Xcode 4

Its really hard to find a tutorial to do this as most information relates to Xcode 3. Answer below may help some people.

I sourced most of my information for the answer below from the following sites:

- <http://meandmark.com/blog/2011/12/creating-custom-xcode-4-project-templates/>
- <http://www.bobmccune.com/2012/03/04/creating-custom-xcode-4-file-templates/>

iphone ios xcode templates xcode4.5

asked Mar 19 '13 at 5:03



[bennythemink](#)

3,193 3 28 48

4 Answers

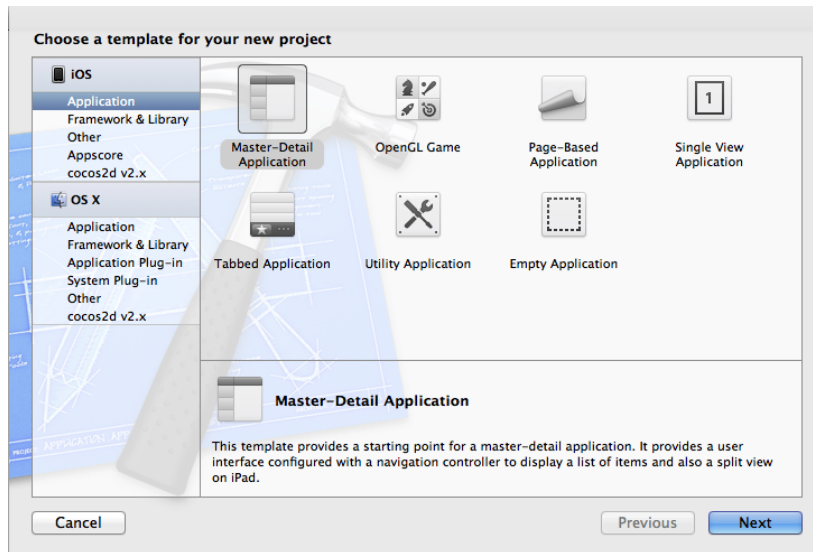
I spent hours searching the web to find information about doing this. Its not actually that hard to set up project templates for Xcode4.5 but its hard to find information on the web that puts it all together! Hopefully the steps below will help you to create your own.

Setting Up

1. Lets start by getting a copy of an existing Xcode project template to use as a base. Open finder, go to Applications and right click on Xcode to show package contents. Navigate to Contents/Developer/Platforms/iPhoneOS.platform/Developer/Library/Xcode/Templates /Project Templates/Application/

[EDIT] In Xcode 5 the PATH is as follows: ~/Library/Developer/Xcode/Templates/Application /Project Templates. If Templates/Application/Project Templates not exists you should create it too. Credit to seufagner in the comments below for the update although I have not tried this myself. [/EDIT]

1. **Copy** (do not cut/paste!) one of the listed templates.
2. Open another finder window and navigate to the following directory (to unhide your Library folder type this cmd in terminal: `chflags nohidden ~/Library/` or select press the alt/option key when clicking on Finder/Go) /Library/Developer/Xcode/Templates (you may need to create this folder if not already present) /Project Templates/
3. Create a folder in here. Call it whatever you wish, a suggestion is your company name. This name appears in the left hand menu of the new project dialogue in Xcode. e.g. in the attached image I've called mine Appscore, there's another one there for cocoas2d.



4. Paste the project template in here and change its folder name to whatever you wish e.g. MySuperProjectTemplate.xctemplate. We are not done yet though as we need to change the template's identifier. Otherwise it will not appear in the Xcode new project dialogue window.
5. Open the TemplateInfo.plist file in TextEdit. Search for the Identifier key. You should see a string value something similar to "com.apple.dt.unit.XXXXXX". Replace this with whatever you wish as long as its unique. I again suggest adding your company name and a name that describes the template.
6. If you now open Xcode you should see the project template appearing under your company name in the new project dialogue.

Customising

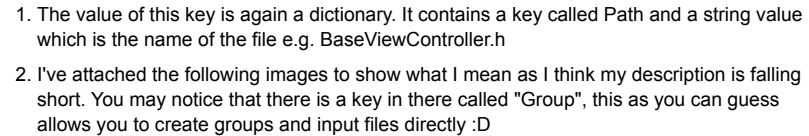
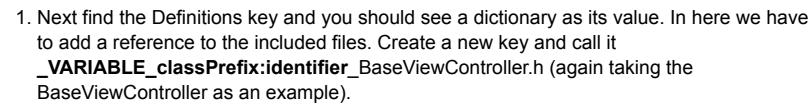
At the moment you have a copy of an existing project template which is not very useful. I'm guessing you have a number of classes that get reused in nearly all your projects? How about we include them into this template?

1. Copy the files you wish, and paste them into your new project template i.e. navigate to /Library/Developer/Xcode/Templates/Project Templates/MySuperProjectTemplate.xctemplate/
2. Open the TemplateInfo.plist file in TextEdit again. First thing we have to do is tell the project template to include the new files so search for a key called "Nodes" that has an array of values. Add the two following lines:


```
<string>_VARIABLE_classPrefix:identifier_.h</string>
<string>_VARIABLE_classPrefix:identifier_.m</string>
```

For example if your controller was called BaseViewController the lines would look like:

```
<string>_VARIABLE_classPrefix:identifier_BaseViewController.h</string>
<string>_VARIABLE_classPrefix:identifier_BaseViewController.m</string>
```



answered Mar 19 '13 at 5:03

 **bennythemink**
3,193 3 28 48

@PhongLe I do not think so but I have not really looked into it so hopefully I am proved wrong :)
– [bennythemink](#) May 1 '13 at 23:33

hey really nice answer but i have a doubt if I creates a template and it contains several modules like 1) db related 2) network related etc...now in my app if i want only one module as per example DB related code. is it possible by using the template that user can select modules which is needed..not the each one (different files) in particular templates. – [PJR](#) Aug 12 '13 at 12:23

1 @seufagner thanks I've updated the answer with your comment! – [bennythemink](#) Oct 13 '13 at 1:06

|

@bennythemink Your answer is really very much help full but I want to add some more things in your answer. When we copy xcode predefine template than this key contains

```
<key>Ancestors</key>
<array>
<string>com.apple.dt.unit.storyboardApplication</string>
</array>
```

this value. When we use this key value in Custom template of xcode it will create AppDelegate class by default. Which we can not move to folder only we can shift it into group. So i suggest to add this:

```
<key>Ancestors</key>
<array>
<string>com.apple.dt.unit.objectiveCAApplication</string>
<string>com.apple.dt.unit.iPhoneBase</string>
<string>com.apple.dt.unit.prefixable</string>
</array>
```

value in Custom template so that we will have fully empty template in which we can do any custom stuff.

edited Feb 24 '14 at 19:49



[Nekto](#)

15.2k 1 36 62

answered Jan 9 '14 at 5:05



[PranavKhandelwal - Syst](#)

173 2 7

You can also learn a lot from inspecting the existing project templates, which you can find in:

[/Xcode.app/Contents/Developer/Library/Xcode/Templates/Project Templates/](#)

for **Mac** and

[/Xcode.app/Contents/Developer/Platforms/iPhoneOS.platform/Developer/Library/Xcode/Templates/Project Templates/](#)

for **iOS**.

There are few sample templates also on [GitHub](#) by [Reid Main](#) and another one by [Acani](#). There are also [AFNetworking](#) templates, created by [Mattt Thompson](#). See all the examples, including ones built by Apple and then you can start creating your own.

edited Mar 27 '14 at 9:42



[Legoless](#)

4,796 3 20 44

answered Mar 27 '14 at 8:45



[Legoless](#)

4,796 3 20 44

Thanks for the comment Legoless! Anything Mattt Thompson does is great quality so I will be checking his templates out! – [bennythemink](#) Mar 27 '14 at 10:59

A good overview of all of the variables used in the plist file can be found here:

<https://gist.github.com/shazron/943736>

answered Oct 29 '13 at 4:31



[blackvibes](#)

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