How Are Apps Made?

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- Integrated Development Environments, like Xcode, assemble different development tools which simplify and expedite software development.
- Software Development Kits compile and give developers access to different APIs which provide necessary data for the application.
- Frameworks hasten the development process by giving you a foundation of libraries which provide shortcuts to tedious code.
- Debugging is the process of running and examining your code to find and fix the code that isn't working as intended and tests are code snippets that are used to check the functions in other code.
- Version Control allows you to document all changes made to your code, giving transparency to all work done to your project.

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Integrated Development Environments (IDE)

- IDEs are application software, which provide helpful facilities for programmers when they are developing their own software.
- Usually, IDE's contain a source code editor, build automation tools, and a debugger.
- Xcode is Apple's IDE and is used for creating applications on the Mac and iPhone and iPad. Although they give you many tools for creation and organization, some functions are reserved for the manufacturer.

IDE Components

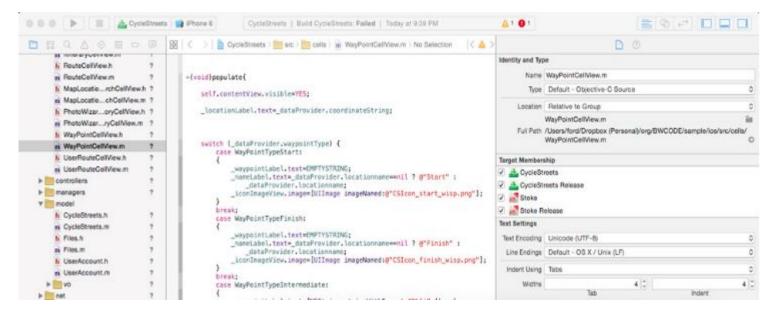
• Source code editor

• Build Automation Tools

• Debugger

Xcode Environment

• Xcode is a user friendly place designed to help the programmer keep track of their files, code, and ultimately, their program.



https://www.bloomberg.com/graphics/2015-paul-ford-what-is-code/#how-are-apps-made

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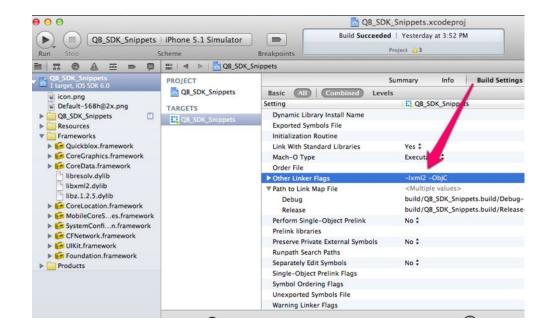
Software Development Kit (SDK)

• An SDK compiles and gives developers access to different APIs which provide necessary data for the application.

• The iOS SDK is used for making iPhone and iPad apps and is made up of dozens and dozens of APIs.

iOS Software Development Kit

• This environment helps programmers keep track of their many files which will ultimately become their application.



http://www.writeopinions.com/ios-sdk

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There are hundreds of frameworks to choose from, each unique in their approach to simplifying your code.

Handles the tedious parts of coding

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Debugging

• Debugging is the process of running and examining your code to find and fix the code that isn't working as intended and tests are code.

• If you are a programmer, you will spend more time debugging than writing code. Even the article says "Programming is debugging" and that we should expect our code not to work.

Testing

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Acknowledgements

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