

Code the Unit Test First



When you create your tests first, before the code, you will find it much easier and faster to create your code. The combined time it takes to create a unit test and create some code to make it pass is about the same as just coding it up straight away. But, if you already have the unit tests you don't need to create them after the code saving you some time now and lots later.



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Creating a unit test helps a developer to really consider what needs to be done. Requirements are nailed down firmly by tests. There can be no misunderstanding a specification written in the form of executable code.

You also have immediate feedback while you work. It is often not clear when a developer has finished all the necessary functionality. Scope cree can occur as extensions and error conditions are considered. If we create our unit tests first them we know when we are done; the unit tests then we know when we are done; the unit tests all run.

There is also a benefit to system design. It is often very difficult to unit test some software systems. These systems are typically built code first and testing second, often by a different team entirely. By creating tests first your design will be influenced by a desire to test everything of value to your customer. Your design will reflect this by being against to test.

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