

Appendix B

GitHub code samples

The vast majority of the code samples in this book were taken from Microsoft Visual Studio 2013 solutions. Although not all of them are directly runnable, they can all be downloaded and compiled.

Each code sample relates to a Git branch that is hosted on [this book's repository on GitHub](#). Although the repository is read-only, it can be forked so that you can make edits on your own copy and push them back to GitHub.

Some of the examples naturally follow on from each other and, whenever applicable, I created a new branch to preserve the prior example and build on it. The following tables show how the branches relate to each other and which code listings relate to each branch, for ease of reference and to avoid cluttering the main chapters' content with constant references to Git branches. Because Chapters 1, 6, and 10 do not include code, you won't find listings and branches for those chapters below.

Chapter 2 branches

Listing Number	Branch Name
2-1	
2-2	
2-3	
2-4	
2-5	
2-6	
2-7	
2-8	
2-9	
2-10	
2-11	
2-12	
2-13	
2-14	ch2-service-discovery
2-15	
2-16	
2-17	ch2-restful-service
2-18	
2-19	
2-20	
2-21	
2-22	
2-23	
2-24	
2-25	
2-26	

Chapter 3 branches

Listing Number	Branch Name
3-1	ch3-interface-definition
3-2	
3-3	
3-4	
3-5	
3-6	
3-7	
3-8	ch3-interface-definition
3-9	
3-10	ch3-interface-definition
3-11	ch3-null-object-pattern
3-12	ch3-null-object-pattern
3-13	
3-14	ch3-null-object-pattern
3-15	ch3-null-object-pattern-isnull-anti-pattern
3-16	ch3-null-object-pattern-isnull-obsolence
3-17	ch3-null-object-pattern-isnull-obsolence
3-18	ch3-adapter-pattern
3-19	ch3-duck-typing
3-20	
3-21	ch3-duck-typing
3-22	ch3-duck-typing-using-dlr
3-23	ch3-duck-typing-using-impromptu-interface
3-24	ch3-clr-duck-typing-support
3-25	
3-26	ch3-mixins-using-extension-methods
3-27	
3-28	ch3-mixins-using-remotion-remix
3-29	
3-30	
3-31	
3-32	ch3-fluent-interface
3-33	
3-34	ch3-fluent-interface

Chapter 4 branches

Listing Number	Branch Name
4-1	ch4-arrange-the-preconditions
4-2	ch4-perform-the-testable-act
4-3	ch4-assert-the-expectations
4-4	
4-5	ch4-tdd-initial-implementation
4-6	ch4-tdd-opening-balance-unit-test
4-7	ch4-tdd-second-implementation-of-addtransaction-test
4-8	
4-9	ch4-tdd-correct-implementation-of-addtransaction
4-10	ch4-tdd-yet-another-unit-test
4-11	ch4-tdd-the-absolutely-final-and-correct-implementation-of-addtransaction-honest
4-12	ch4-a-more-complex-unit-test
4-13	ch4-mocking-with-fakes
4-14	
4-15	
4-16	
4-17	ch4-mocking-with-stubs
4-18	ch4-testing-account-service-constructor
4-19	
4-20	
4-21	ch4-testing-account-not-found
4-22	
4-23	ch4-testing-account-method-throws
4-24	
4-25	ch4-testing-to-fix-bugs
4-26	
4-27	ch4-adding-setup-method
4-28	
4-29	ch4-refactoring-base
4-30	ch4-refactoring-replace-magic-numbers-with-constants
4-31	ch4-refactoring-creating-account-type-subclasses
4-32	
4-33	
4-34	ch4-refacotring-replace-constructor-with-factory-method
4-35	
4-36	ch4-replace-constructor-with-factory-class
4-37	
4-38	ch4-new-account-type-reward
4-39	
4-40	ch4-new-account-type-standard
4-41	
4-42	ch4-refactoring-replace-inheritance-with-delegation
4-43	
4-44	

Chapter 5 branches

Listing Number	Branch Name
5-1	
5-2	
5-3	
5-4	
5-5	
5-6	
5-7	
5-8	
5-9	
5-10	
5-11	
5-12	
5-13	ch5-decorator-pattern
5-14	ch5-composite-pattern
5-15	
5-16	ch5-predicate-decorator
5-17	
5-18	ch5-predicate-decorator-first-refactor
5-19	ch5-predicate-decorator-second-refactor
5-20	ch5-predicate-decorator-branching-refactor
5-21	ch5-lazy-decorator
5-22	
5-23	ch5-logging-decorator
5-24	
5-25	ch5-profiling-decorator
5-26	ch5-profiling-decorator-added-stopwatch
5-27	ch5-predicate-decorator-first-refactor
5-28	ch5-predicate-decorator-second-refactor
5-29	
5-30	
5-31	ch5-async-decorator
5-32	ch5-async-decorator-first-refactor
5-33	ch5-decorating-properties-and-events
5-34	
5-35	ch5-strategy-pattern-instead-of-switch
5-36	

Chapter 7 branches

Listing Number	Branch Name
7-1	ch7-pre-conditions-calculate-shipping
7-2	ch7-pre-conditions-guard-clause-more-context
7-3	ch7-contracts-simple-pre-conditions
7-4	ch7-contracts-simple-post-conditions
7-5	ch7-contracts-simple-data-invariants
7-6	
7-7	ch7-contracts-lsp-pre-conditions
7-8	
7-9	ch7-contracts-lsp-pre-conditions-are-inherited
7-10	ch7-contracts-lsp-post-conditions
7-11	
7-12	ch7-contracts-lsp-protected-invariants
7-13	
7-14	ch7-code-contracts-pre-conditions
7-15	
7-16	ch7-code-contracts-post-conditions
7-17	ch7-code-contracts-invariants
7-18	ch7-lsp-subtype-covariance
7-19	
7-20	ch7-lsp-generic-covariance
7-21	
7-22	ch7-lsp-generic-contravariance
7-23	ch7-lsp-invariance
7-24	
7-25	
7-26	
7-27	
7-28	
7-29	

Chapter 8 branches

Listing Number	Branch Name
8-1	
8-2	ch8-simple-crud-interface
8-3	
8-4	
8-5	ch8-crud-interface-delete-confirmation-decorator
8-6	
8-7	
8-8	ch8-crud-interface-read-caching
8-9	
8-10	
8-11	ch8-crud-interface-modification-auditing
8-12	
8-13	ch8-crud-interface-modification-event-publishing
8-14	
8-15	
8-16	
8-17	
8-18	ch8-isp-client-injection
8-19	
8-20	
8-21	
8-22	
8-23	
8-24	ch8-splitting-interfaces-client
8-25	
8-26	
8-27	
8-28	ch8-splitting-interfaces-inheritance
8-29	ch8-splitting-interfaces-read-write
8-30	
8-31	ch8-splitting-interfaces-authorization
8-32	
8-33	ch8-splitting-interfaces-architecture
8-34	
8-35	ch8-splitting-interfaces-asymmetric
8-36	
8-37	
8-38	
8-39	ch8-single-method-interfaces
8-40	

Chapter 9 branches

Listing Number	Branch Name
9-1	ch9-dependency-inject-base-wpf
9-2	
9-3	
9-4	
9-5	ch9-method-injection
9-6	ch9-property-injection
9-7	ch9-ioc-container
9-8	ch9-ioc-container-rrr
9-9	
9-10	
9-11	ch9-ioc-container-declarative-xml
9-12	
9-13	ch9-inject-connection
9-14	ch9-service-implements-idisposable
9-15	ch9-service-requires-connection-factory
9-16	
9-17	ch9-responsible-owner-pattern
9-18	ch9-service-locator-anti-pattern
9-19	
9-20	
9-21	
9-22	ch9-illegitimate-injection
9-23	ch9-ioc-composition-roots
9-24	
9-25	
9-26	
9-27	ch9-ioc-conventions
9-28	
9-29	ch9-ioc-advanced-convention

Chapter 11 branches

Listing Number	Branch Name
11-1	sample-sprint1-create-rooms
11-2	
11-3	
11-4	
11-5	
11-6	
11-7	
11-8	
11-9	sample-sprint1-list-rooms
11-10	
11-11	sample-sprint1-view-room-messages
11-12	
11-13	sample-sprint1-add-room-messages
11-14	
11-15	

Chapter 12 branches

Listing Number	Branch Name
12-1	sample-sprint2-markdown
12-2	
12-3	sample-sprint2-filter-content
12-4	
12-5	sample-sprint2-document-storage