





- Designing testable code
- High-level Model-View design
- Test-drivers and mock objects
- Unit test execution
- KDE ItemViews library



- Designing testable code
  - Motivation



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  - Motivation
  - Abstraction





- High-level Model-View design
  - Separation of concerns









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- Test drivers and mock objects
  - Real-world model view



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  - Real-world model view
  - Dependency injection





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  - Real-world model view
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  - Real-world model view
  - Dependency injection
  - setSourceModel(new FakeModel);



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- KDE ItemViews test suite
  - Fake source model (interpreter pattern)
  - Fake selection model
  - ProxyModelTest
  - ModelSpy



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  - ModelSpy
- KDE ItemViews
  - KSelectionProxyModel
  - KDescendantsProxyModel
  - KReparentingProxyModel



- Unit test execution
  - Multiple executions
  - Configurable tests for configurable proxies
  - Individually executable
  - Re-usable



- Summary
  - Dependency injection
  - Simplify complex systems
  - 1,000's of tests
  - Re-usable
  - kdelibs/kdeui/tests/proxymodeltestapp



# Questions &

Answers

