**Introduction to White Box Testing 1 of 3**

<https://www.youtube.com/watch?v=wLINA-Gj7eA&list=PLIbriiGMfc0UP_q8X1WTAsl-EMnLCfPFv&index=1>

### [Software Testing Training –Manual Testing Basics for Beginners](https://www.youtube.com/playlist?list=PLDC2A0C8D2EC934C7)

[Guru99](https://www.youtube.com/channel/UC19i1XD6k88KqHlET8atqFQ)

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<https://www.youtube.com/watch?v=QYCaaNz8emY&list=PLDC2A0C8D2EC934C7&index=6>

### [Testing Coverage](https://www.youtube.com/playlist?list=PL55SdMg5IVIbDZ0Ofui10S2tN960RT0bl)

[호랑이조선](https://www.youtube.com/channel/UCC7h_xa5NBPr02VT9t3aWuw)

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https://www.youtube.com/watch?v=CHS4Mx-B\_Kg&list=PL55SdMg5IVIbDZ0Ofui10S2tN960RT0bl&index=8

### [Software Engineering Lectures](https://www.youtube.com/playlist?list=PLV8vIYTIdSnat3WCO9jfehtZyjnxb74wm)

[Easy Engineering Classes](https://www.youtube.com/channel/UC4EX8zLiBUalk704IX_zu1Q)

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https://www.youtube.com/watch?v=-F0aGW\_mw9U&list=PLV8vIYTIdSnat3WCO9jfehtZyjnxb74wm&index=41

# https://ptolemy.berkeley.edu/~johnr/tutorials/assertions.html

# Assertions

An assertion specifies that a program satisfies certain conditions at particular points in its execution. There are three types of assertion:

Preconditions

Specify conditions at the start of a function.

Postconditions

Specify conditions at the end of a function.

Invariants

Specify conditions over a defined region of a program.

# Dataflow and Mutation Testing

https://www.youtube.com/watch?v=RR\_nEUtwbBA

### [Software Testing Tutorials](https://www.youtube.com/playlist?list=PLu4-mSyb4l4Qqv_-s2ryCTiV5Kio_Mxmm)

[LearnVern](https://www.youtube.com/channel/UCGlUPA9kZBU0fEAJbbXwT1Q)

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https://www.youtube.com/watch?v=uKlMioFQOa4&index=29&list=PLu4-mSyb4l4Qqv\_-s2ryCTiV5Kio\_Mxmm

# White Box testing in Software Engineering | Software Engineering Tutorials

https://www.youtube.com/watch?v=7yP4yA9DeTs

### [Software Testing Video Lectures By Punjabi Revolution](https://www.youtube.com/playlist?list=PL0eEDGU4u_dAAbG03E5slQeTapyEiD13m)

[punjabi revolution](https://www.youtube.com/channel/UC3dIXRIX9TLvLou_W57WY4A)

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https://www.youtube.com/watch?v=SBeeM-ilXZ8&index=6&list=PL0eEDGU4u\_dAAbG03E5slQeTapyEiD13m

POLYMORPHIC MESSAGE TEST - STRATEGY

Test Model: Extended flow graph that takes into account all possible dynamic bindings to the server.

Test procedure:

1. Determine possible bindings for server calls

2. Expand the flow graph at the server calls accordingly

3. Two nodes for each binding: branch, method call

4. Conclusion node that represents binding error at runtime

5. Test case generation based on this flow graph

Entrance Criteria: Small-Pop; Server must be stable (possibly using stubs)

Initial Criteria: Branch coverage on the extended flow graph, i. every possible bond is used at least once.

Categorization based on the values ​​of instance variables and state:

non-modal: no restrictions on the sequence of method calls

unimodal: allowed method calls depending on state but not data values

quasi-modal: allowed method calls depending on data values

modal: allowed method calls depending on data values ​​and state