

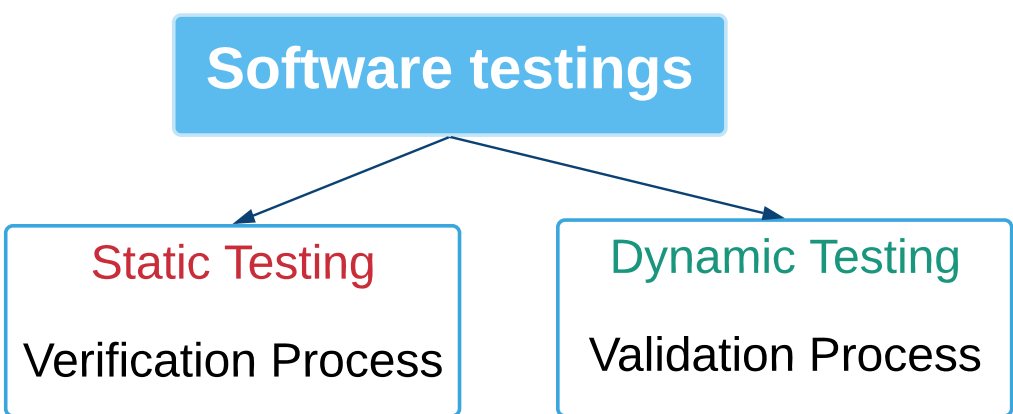
Testing Types in General

Question & answers in this article:

- What are the general test types? Static vs. Dynamic
- Verification process vs. validation process ?
- What are the 3 ways to test documents ?
- What are the 3 testing approaches to test code & the software?

Test types in general:

- Static Testing
- Dynamic testing



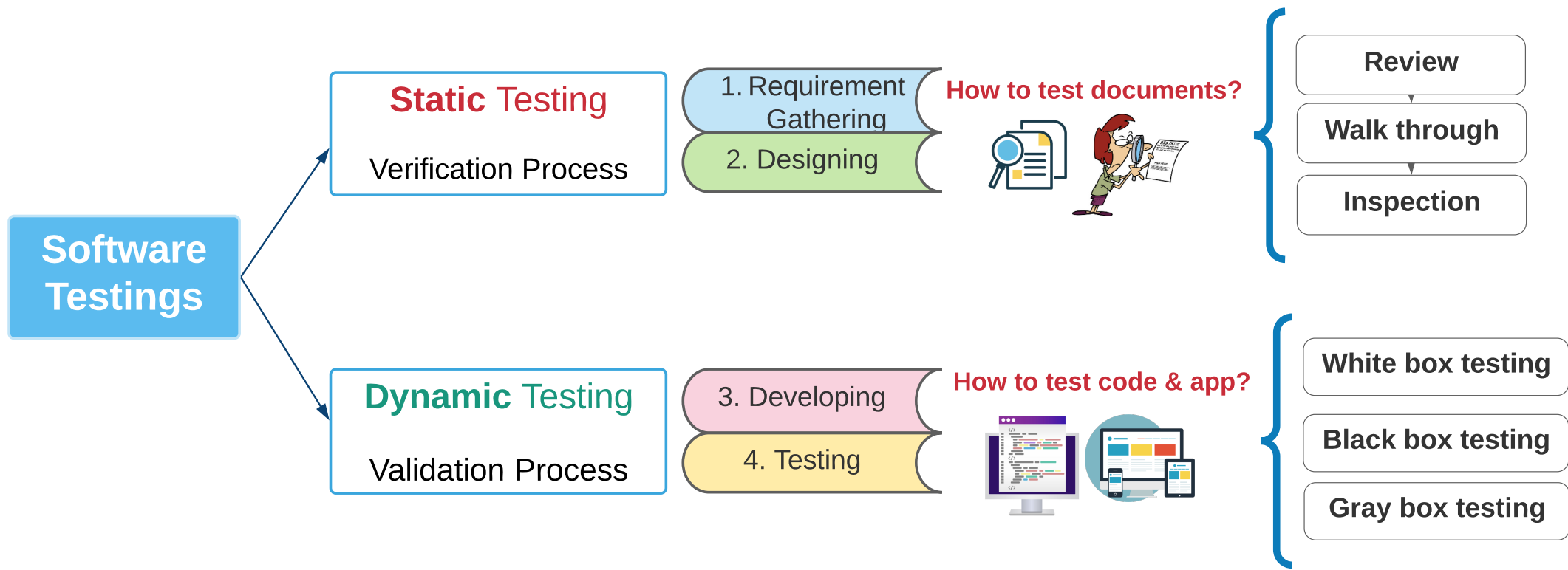
Static testing:

Testing documents is called Static Testing. Static testing does not require code to be executed, and It requires performing **manual testing**. In static testing, the **business team** and **designers** read and **test** various **documents to prevent errors** in the early stage of SDLC. Cost of finding errors and fixing from documents is less in static testing.

Static testing is also known as **the Verification process**. Verification is a process of creating requirements and design documents, then testing the document's correctness by velidating whether they are developing the product correctly in the first and second phases of SDLC.

Documents are tested in three ways/meetings:

- **Review** -- Reviews will not follow any specific process to find bugs in documents. Coworkers can review documents and provide informal comments.
- **Walkthrough** -- The author of whichever document is being reviewed will explain the document to their team. Participants will ask questions, and any notes are written down.
- **Inspection** -- A designated moderator will conduct a strict review as a process to finalize the documents.



Dynamic Testing:

Testing code and the software itself is called Dynamic testing. Dynamic testing requires the code to be executed, and it requires performing both **manual and automatic testing**. In dynamic testing, the developers, various testers, and the client test the software by providing **input** and **examining** the **output to find and fix bugs**. Cost of finding bugs and fixing from the actual software is high in Dynamic testing.

Dynamic testing is also known as the **Validation process**. Validation is a process of writing code and testing the code, and testing the actual software. Through the Validation process, testers ensure whether it is the right product as the client request.

Code and the software are tested in three types of testing approaches:

1. **White** Box Testing
2. **Black** Box Testing
3. **Grey** Box Testing

Smoke Testing in different IT companies

Static Testing			Dynamic Testing	
1	Documents	Object	Code & software	
2	Verification Process	Process	Validation Process	
3	NO code or software is involved	Involve	Actual code and software are involved	
4	Required manual testing	Procedures	Required both manual & automation testing	
5	Performed in the 1st & 2nd stage of SDLC	When	Performed in the 3st & 4nd stage of SDLC	
6	Business team, Designers	Participants	Developers, testers, the client, end-users	
7	To prevent and avoide bugs	Purpose	To find & fix bugs	
8	Costly & time - consuming	Time & Cost	fast & cost-effective	
9	Are we building the software right? correctly?	Question	Are we building the right product?	
10	1. Review 2. Walkthrough 3. Inspection	Approaches	1. White Box Testing 2. Black Box Testing 3. Grey Box Testing	