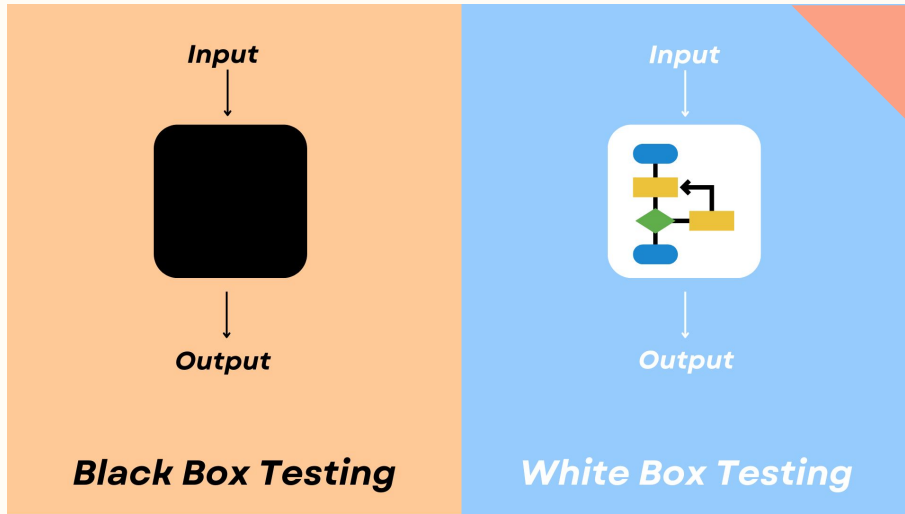




Lab 07: Types of Testing

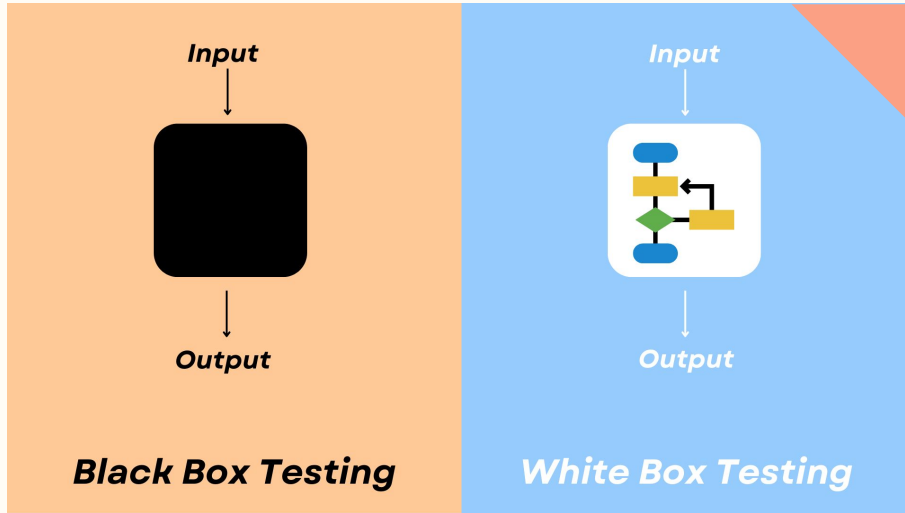
CMPUT 301 - Winter 2025



Black Box Testing

- Black box testing does not look at the structure of the code, we just present an input and check that the correct output is returned
- Only the external design and structure are tested.

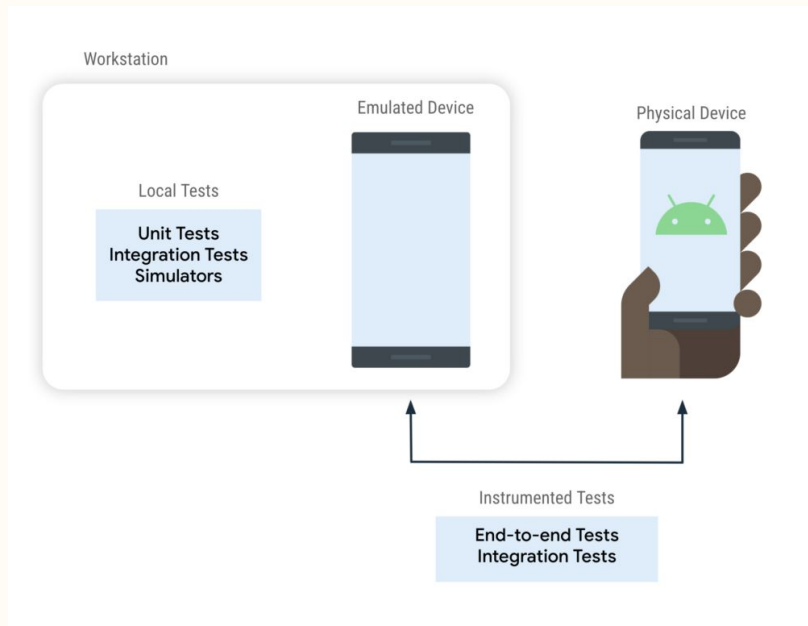
Image sourced from <https://www.boardinfinity.com/blog/white-box-vs-black-box/>



White Box Testing

- In white box testing, we know the internal implementation of the code.
- We want to check that all logic branches are covered, the code has high performance, etc.
- The actual implementation of the code is tested

Instrumented Tests



- Instrumented tests run on an Android device, either physical or emulated.
- The app is built and installed alongside a test app that injects commands and reads the state.
- Usually UI tests which launch an app and interact with it.