#### **PROMPT Software Testing**

**Integration Strategies** 

Based on the book: **"Software Testing and analysis**" by Mauro Pezzé & Michal Young

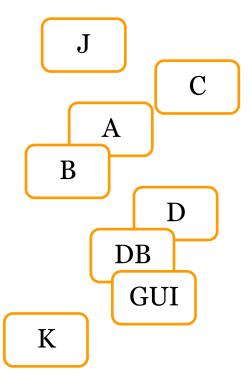


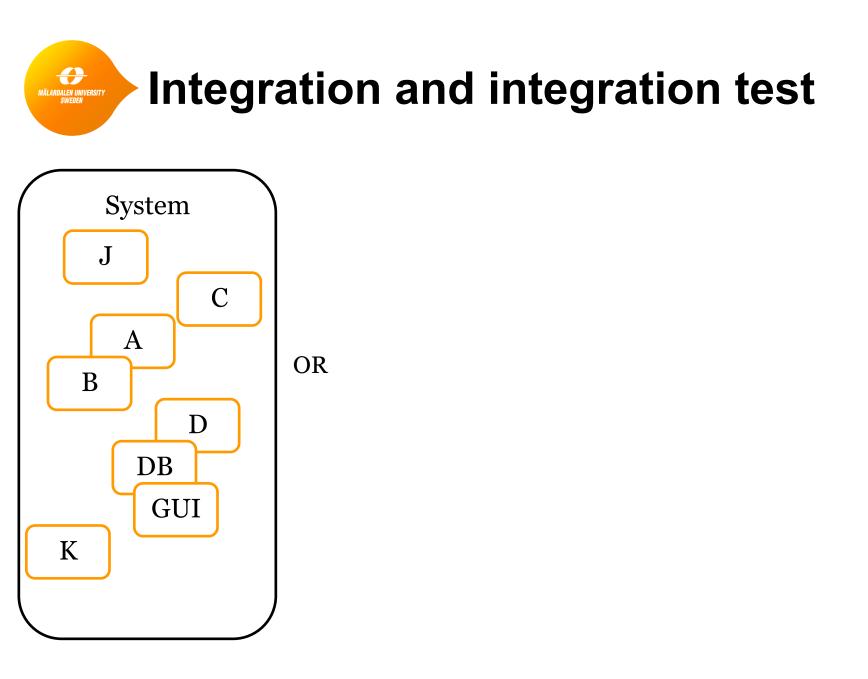


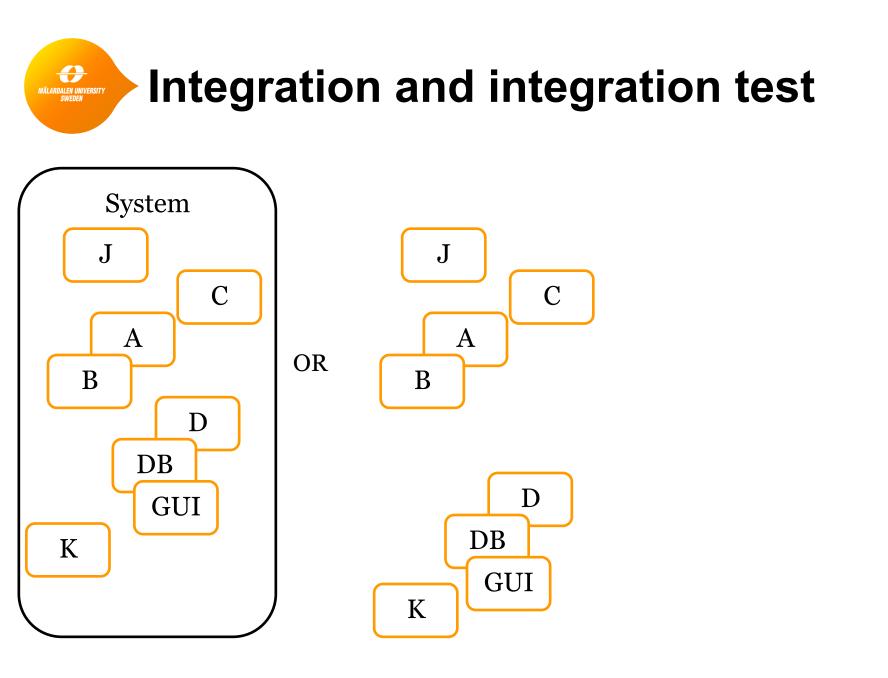


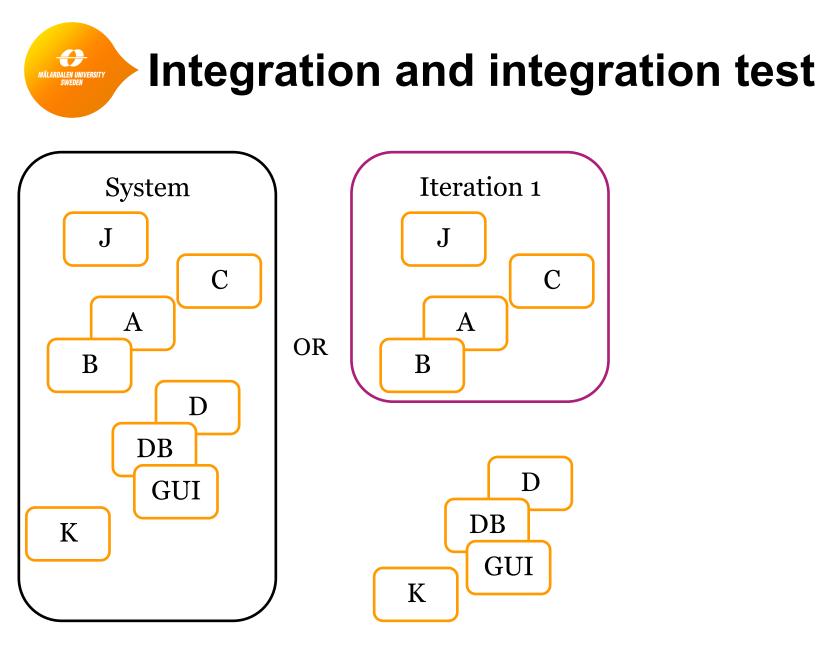


#### Integration and integration test

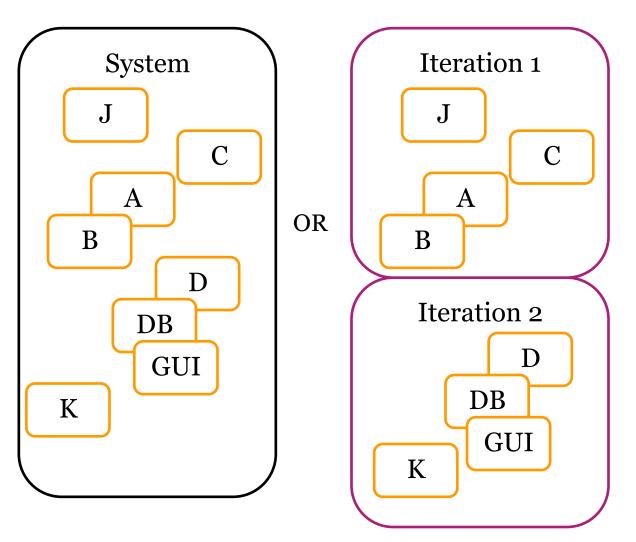


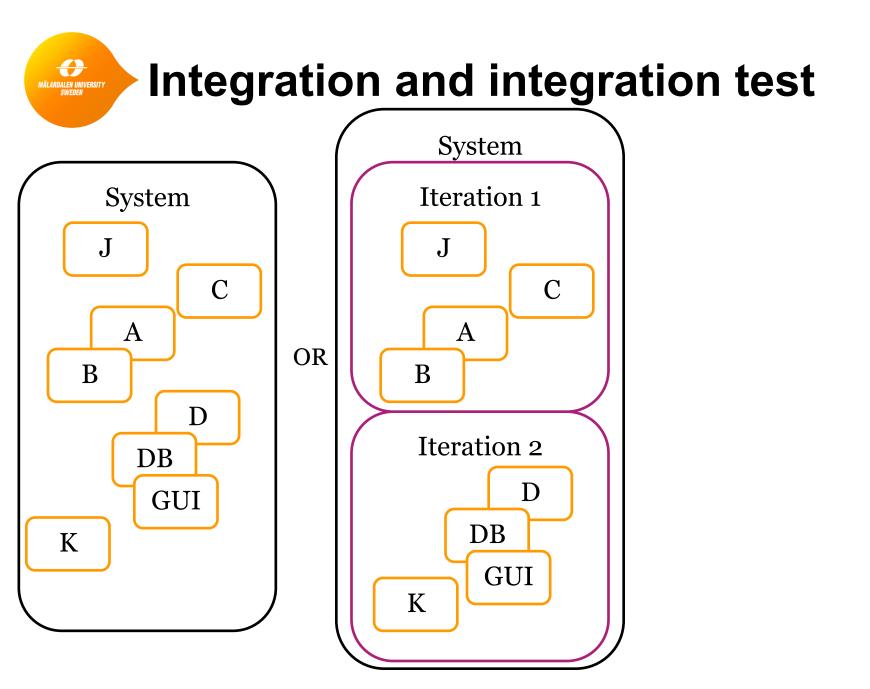


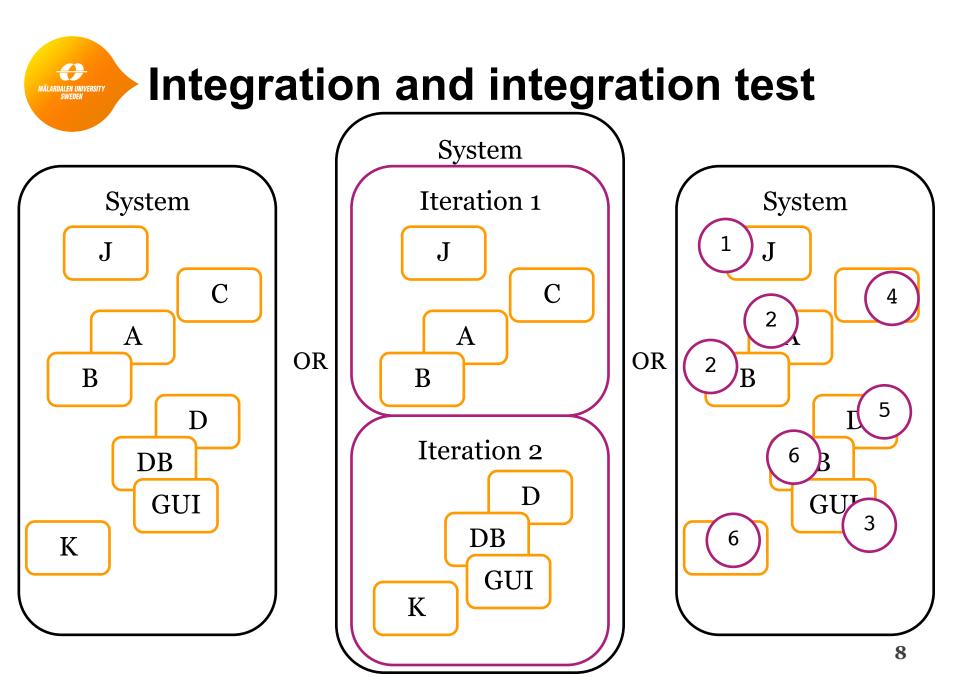


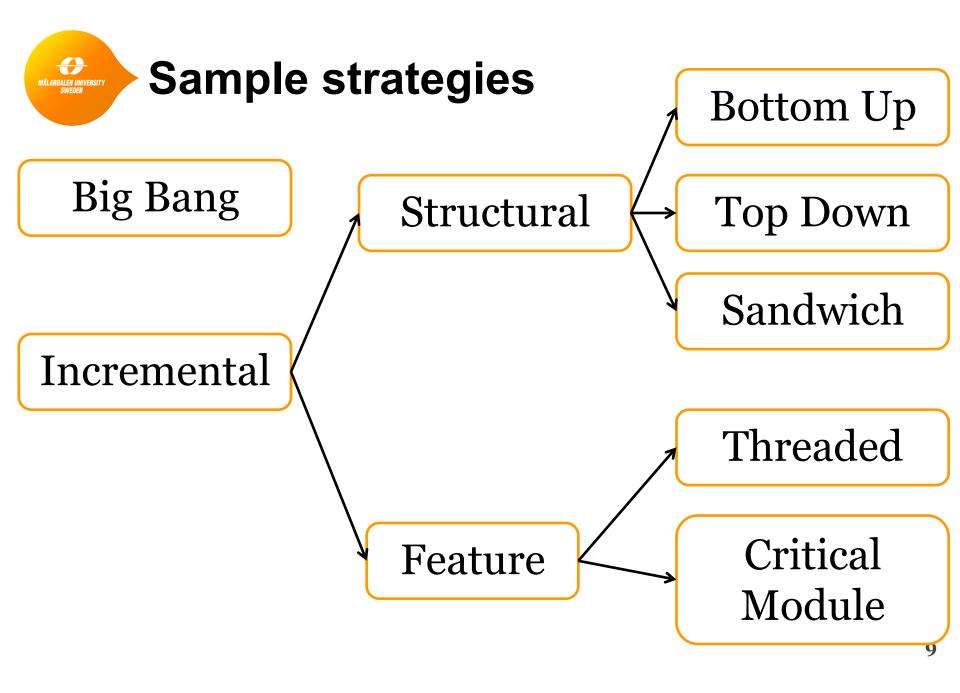












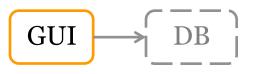


#### Faking non existent parts "SCAFFOLDING"

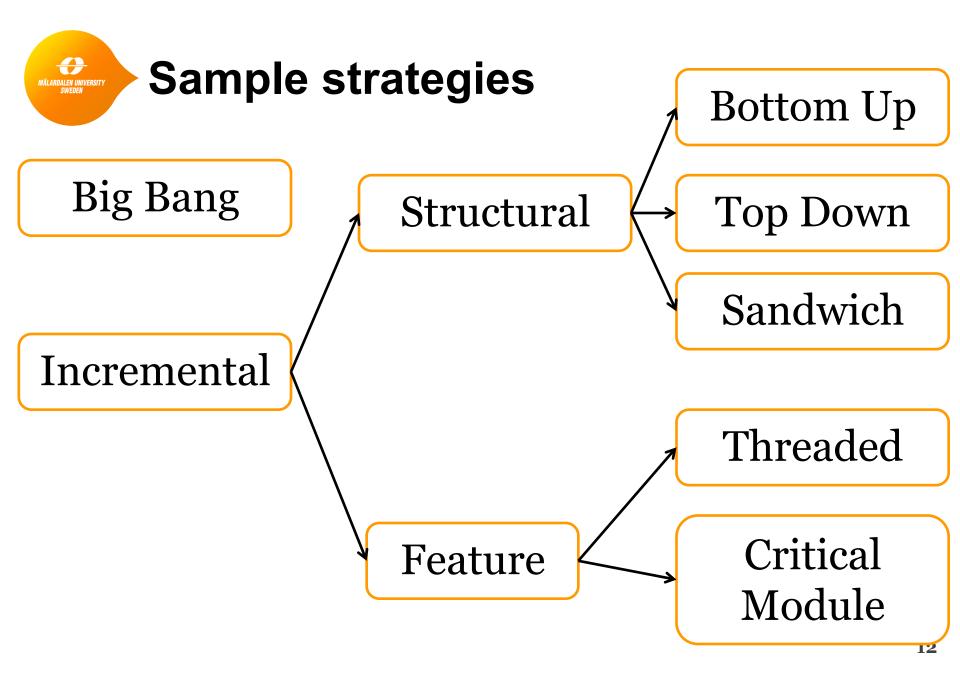




# Faking non existent parts "SCAFFOLDING"

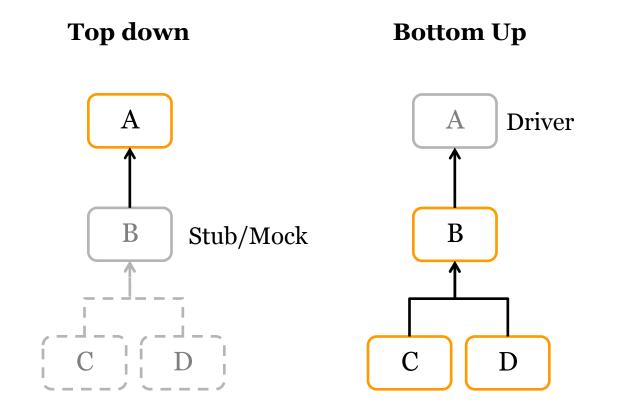


#### Scaffolding (simplified) **Dummy** - Only place holders in parameter lists Fake - Typically quick and dirty implementation - Acts if it was "someone" else Proxy Stub - Fixed replies on function calls without any implementation behind. Driver - As stub but used in bottom up - A stub that contains code to Mock verify the expected behavior 11

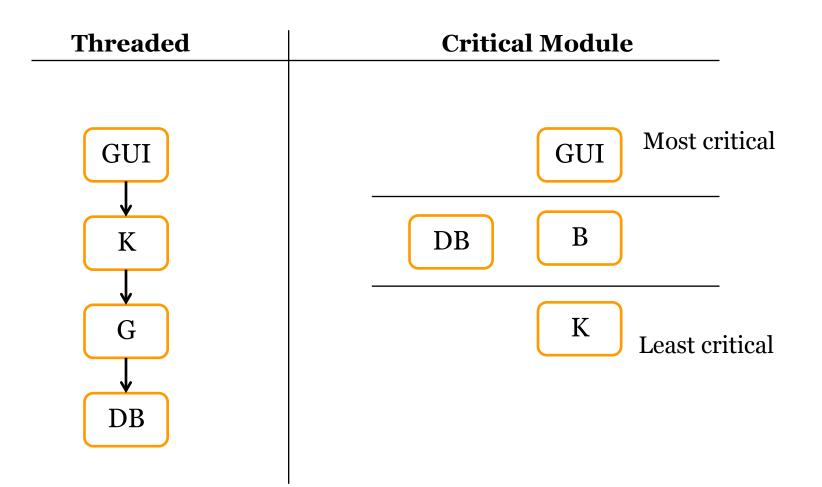




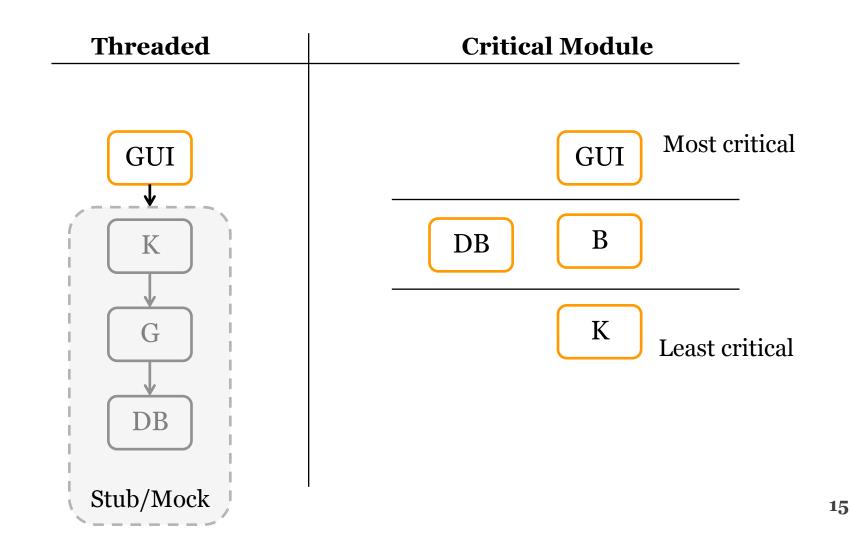
#### **Structural oriented strategies**



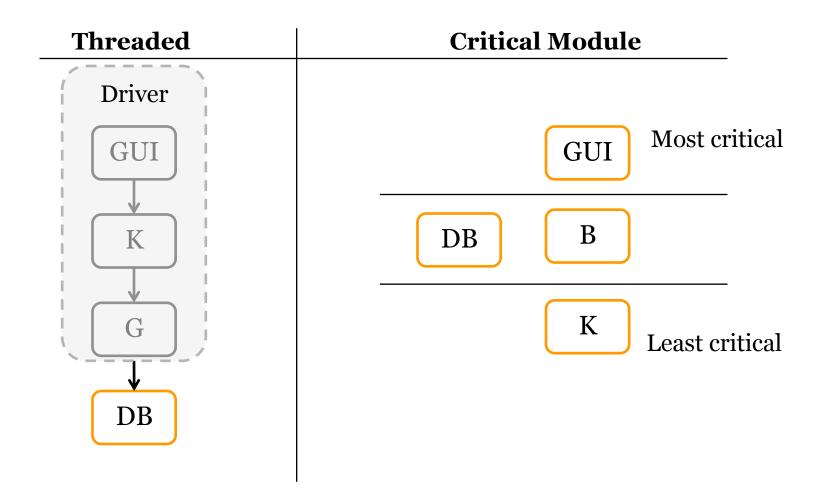




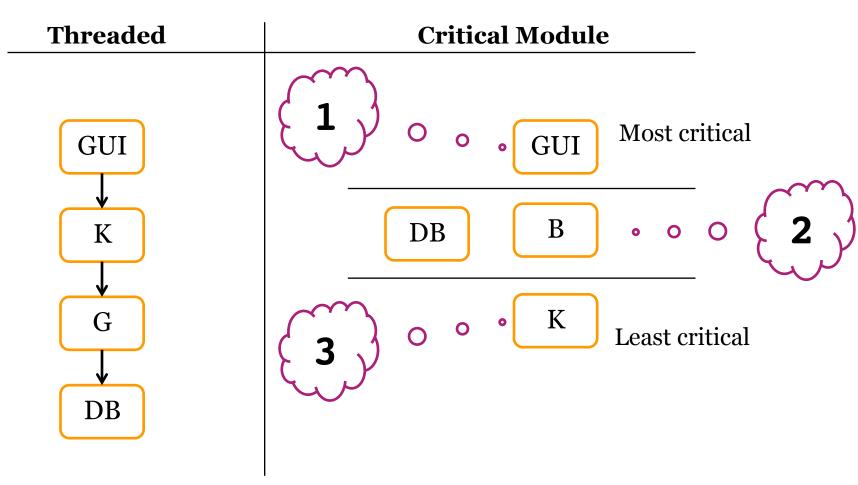


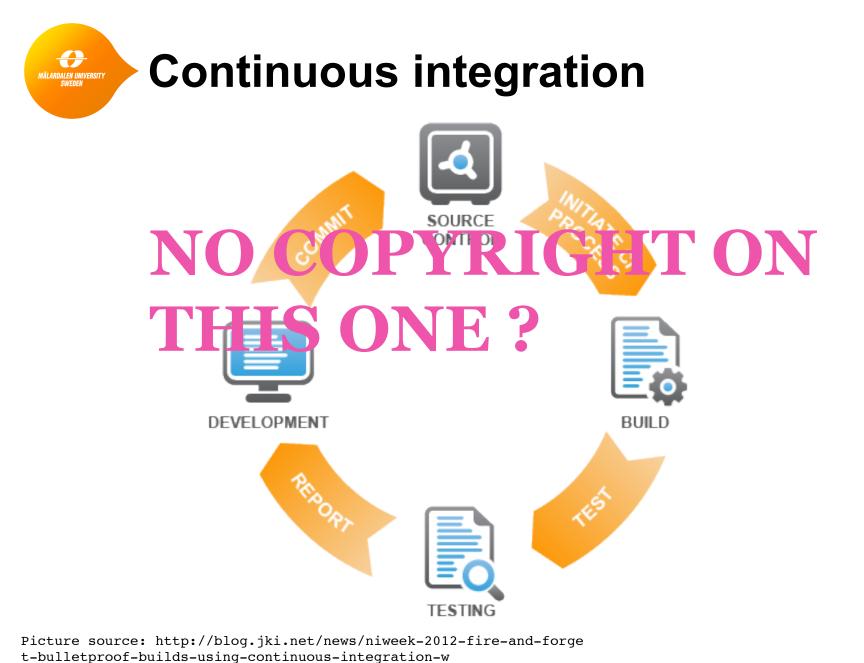












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- Avoid big bang integration
- Mostly more than one strategy is used
- Often mixed strategies

Further reading

#### • "Software Testing and analysis" by Mauro Pezzé & Michal Young

•https://www.ida.liu.se/~TDDD09/timetable/SystemAnatomy.pptx

•http://en.wikipedia.org/wiki/System\_anatomy

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**Integration Testing Strategies** 

MÄLARDALEN UNIVERSITY SWEDEN



