

ORACLE

Why Developers Should Love Testing!

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Important Notes

- Ask questions
- Reach out:
Twitter: @BillyKorando
Email: billy.korando@oracle.com
- Key link 🙏 <https://github.com/wkorando/developers-love-testing>



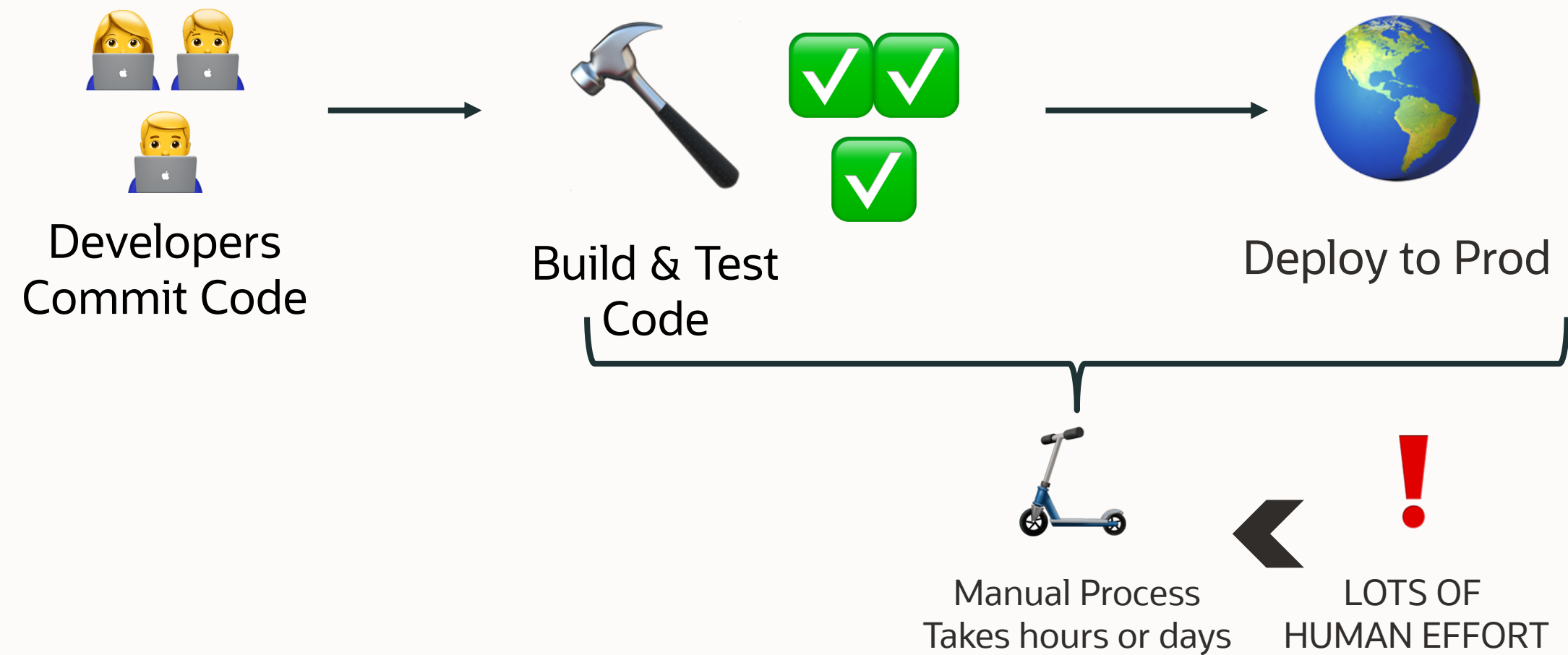
- <https://dev.java>
- <https://inside.java>
- <https://youtube.com/java>
- Inside Java Podcast
- Inside Java Newscast
- #SipOfJava
- #JEP Café

Why Write Automated Tests?

- Substantial time and effort to write tests
- Substantial time and effort to maintain tests

My code is perfect!
Why should I waste time writing tests?

Manual Deployment Process

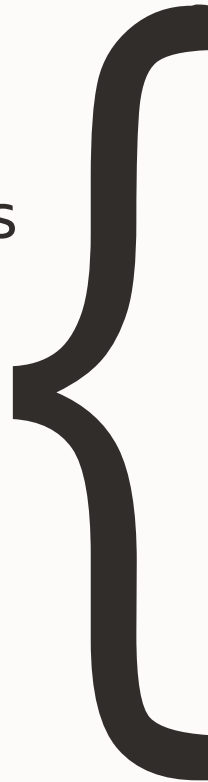


The Dependency Iceberg

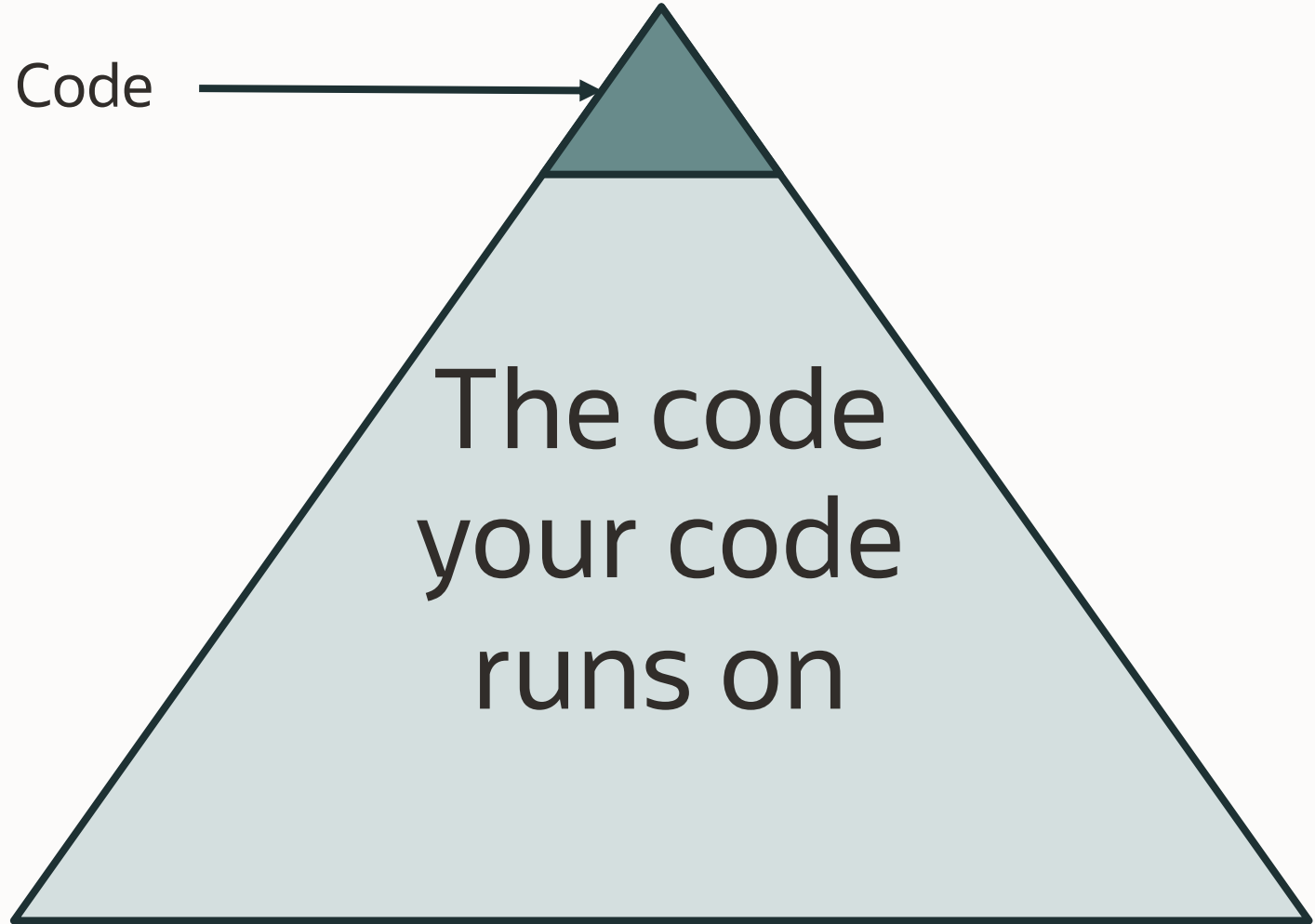
Your Code



- Security patches
- Performance enhancements
- Feature enhancements



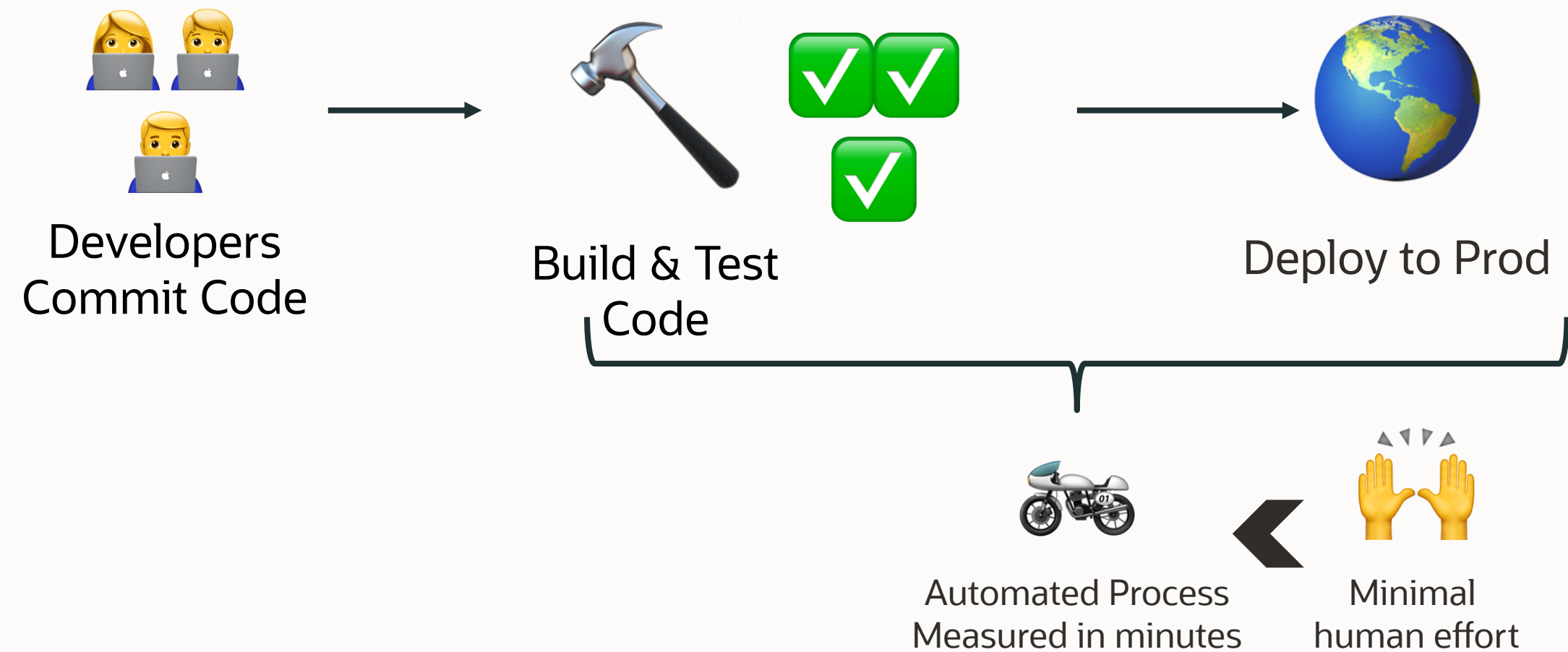
The code
your code
runs on



Manual Test Costs

The high effort of regression testing code disincentivizes keeping dependencies up to date

Deployment Process



Additional Benefits of Automated Tests

Auditable

- Can review test code, reports, and logging

Repeatable

- Can re-run test suite to see if problems persists
- Can run test suite against other code base/version to see if problem exists

How Many Automated Test Should I Write?

Whatever gives you confidence to
deploy to PROD without manual
intervention

Manual Testing

Manual testing still needed.

But it's exploratory testing.

Love the Tests You Write

- ✓ Treat Test Code like “Production” Code
- ✓ Write Human Readable Tests
- ✓ Write Reliable Tests

Slide deck & Code Examples

Slide deck:

<https://github.com/wkorando/developers-love-testing>

JUnit 5, Mockito, AssertJ, and Test Containers:

<https://github.com/wkorando/welcome-to-junit5-v2>

Spring Cloud Contract Example:

<https://github.com/wkorando/collaborative-contract-driven-development-2-0>

JFRUnit:

<https://github.com/moditect/jfrunit>

Thank you



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