Test Harness

* What are we testing?
  + Code blocks in a particular package format conducive to the language we’re testing.
  + Unit test of your code, like JUNIT, CPPUNIT.
  + Test JAVA, CPP, C#.
  + User interface
    - Web?
    - Desktop GUI?
  + Scalability
    - Massive parallel testing
  + Concurrency – multiple users, web app style.
* Users
  + Focused on the developer?
  + Or enterprise type of application?
* Scope
  + Limited to a single desktop – MVP?
  + Large scale, thousands of clients.

MVP

* Desktop client.
* Pick one language, binary format. One input.
* Multi-threaded 🡨 this is our concurrency story!
* Test pass / fail.
* Logging to text file – XML? Text file?
* Log levels (details for devs, high-level for management/architects), INFO, DEBUG, ERR, WARN?
* Exception handling for tests.
* GUI client to select tests, execute tests, show results.
* C++.

JUNIT Wiki, README. <https://junit.org/junit5/>

<https://en.wikipedia.org/wiki/CppUnit>

PIE IN THE SKY

* MVP stuff, plus …
* Web app, super scaling, test anything.
* Any language, binary format.
* Host in cloud, auto-scale, load-balance, magic stuff. Redundancy. 10 9’s.
* Locality / regions.
* Localization – language support.
* $$$