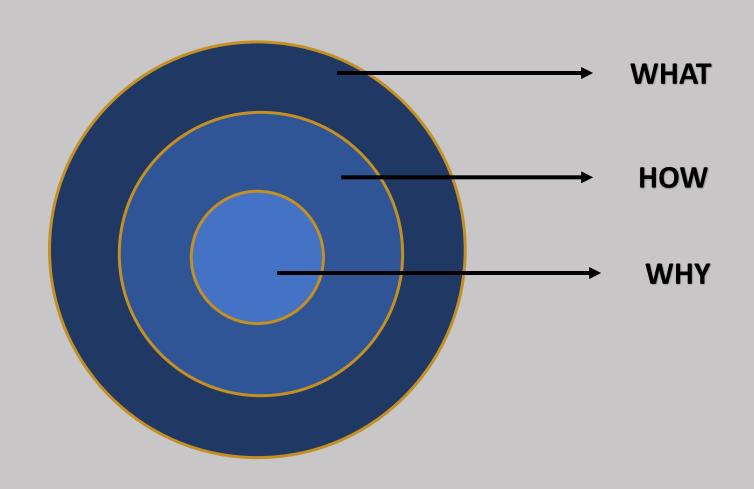


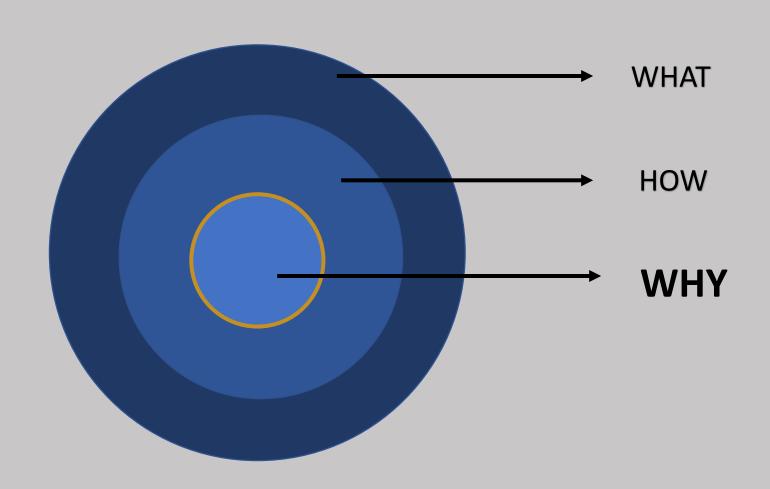
Vezzal

a containerized tool to use and test open source EDA tools

- Sai Charan







WHY

(1.)

Released for users to enjoy with the tool



Adds a new feature /fixes a bug

Tool Developer



A feature which is working fine in the prev version is not working in the latest version



WHY

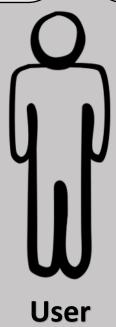
2.

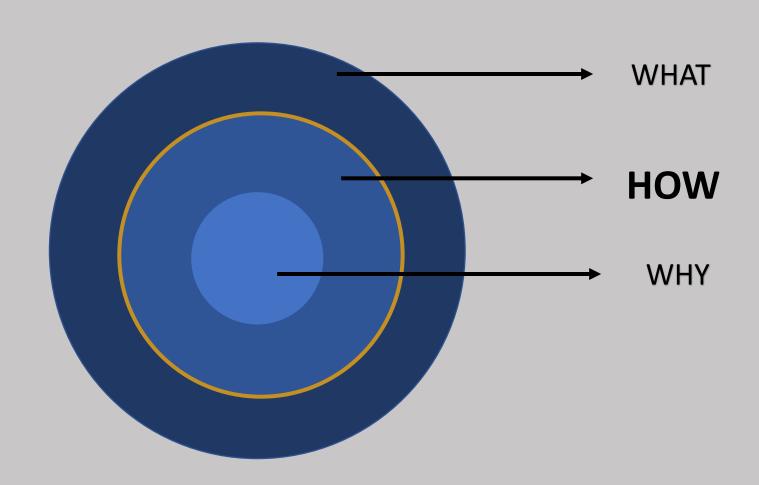
There are many tool dependencies.

First, I must prepare the environment to use any of the tools.

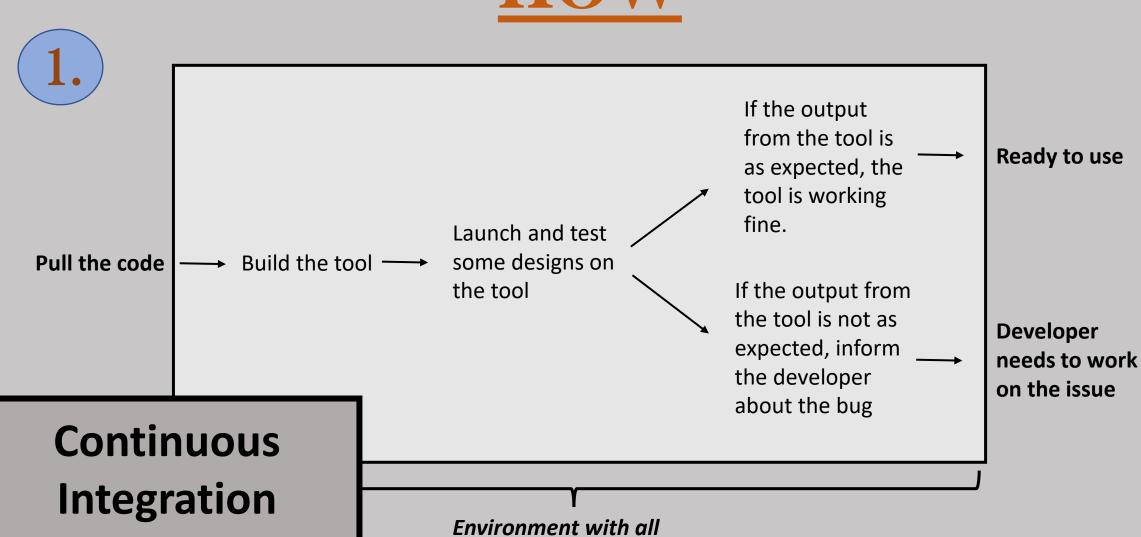
And also, I need to update my tools and PDK to be on the track.

What if someone can setup and provide a stable design environment so that I could call whatever tool I want and focus on my design



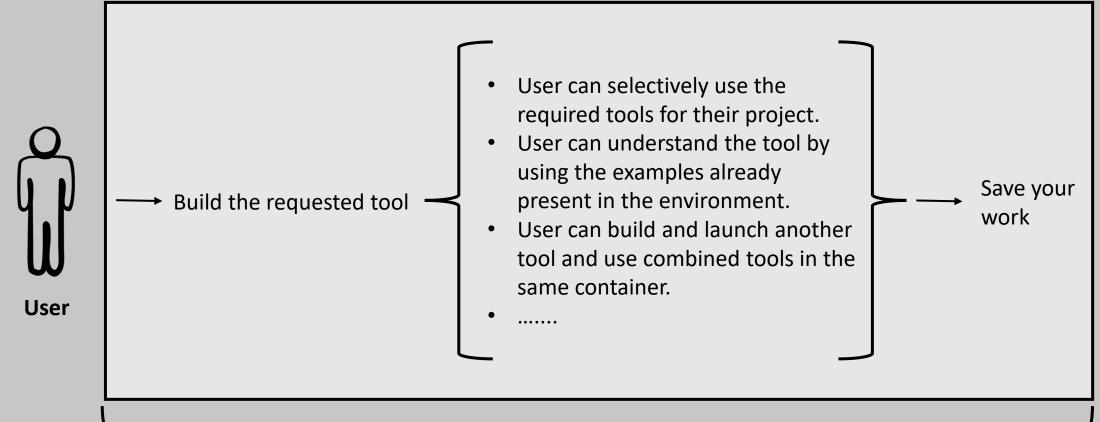


HOW



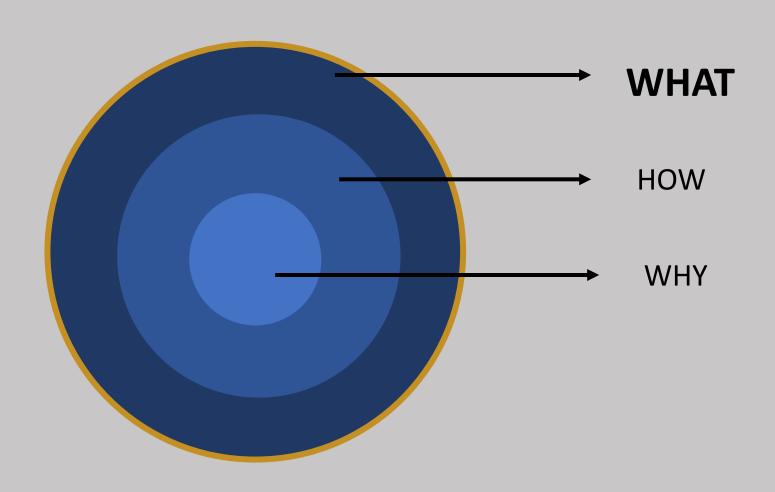
Environment with all library dependencies and technology information

HOW



Exit the environment

Pre-built environment with all library dependencies and technology information





Technologies used



Environment



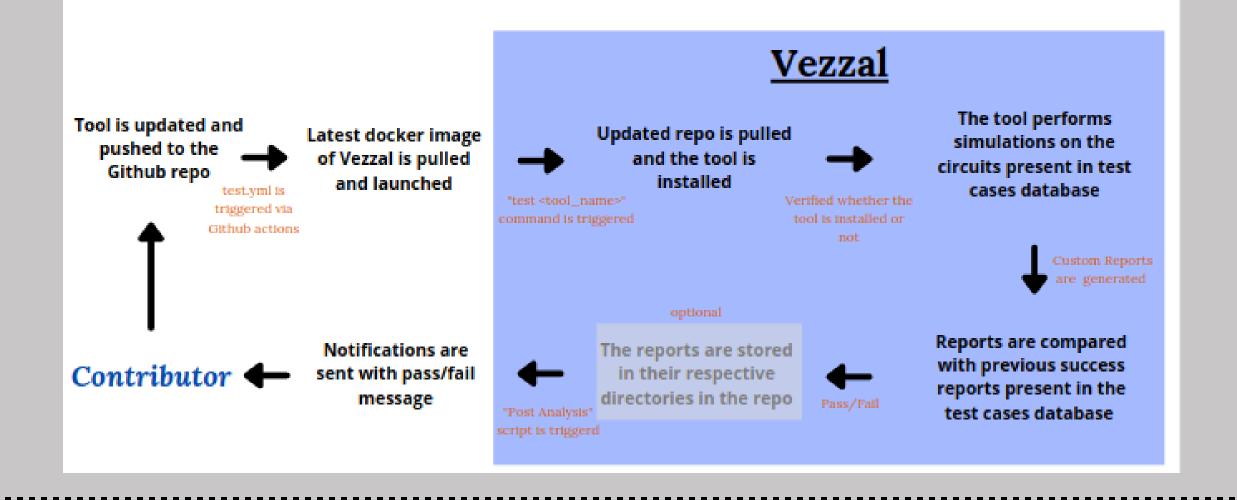
Triggering of CI workflow





docker pull vezzal/vezzal:latest
docker exec test_<toolname>.sh

Continuous Integration workflow



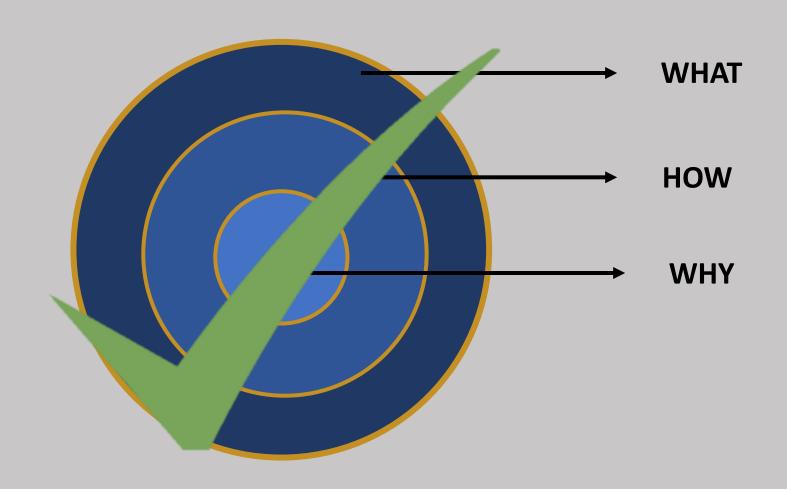
User mode of Vezzal

Vezzal

- Tcl/tk
- GCC
- Python3
- m4
- ...

- •OpenGL
- •git
- •PDKs
- •Test cases database

Scripts to launch tools and build PDKs



Vezzal Docker image

1.

vezzal:v1

vezzal:v2

2.



Solution to problem statement 1 (Providing CI to opensource EDA tools)

Solution to problem statement 2 (Providing a stable and updated design environment for opensource EDA tools)

Goals

- Maintaining a stable yet updated tools and PDK information (not only for sky130A tech node).
- Add more potential testcases and enhance the analysis of the test results reporting process.
- Provide a comfortable environment for entry-level learners to use Vezzal in interactive mode.
- Add more features to support learning and exercising open source chip development process.

Support

github.com/lankasaicharan/vezzal

Suggestions/feedback on the concept of Vezzal

· Code quality improvement.

· Helping hand to add more features to the Vezzal.











I would love to have a chat regarding Vezzal and on open source chip development. Feel free to reach out to me at -



lankasaicharan@ieee.org



lankasaicharan

