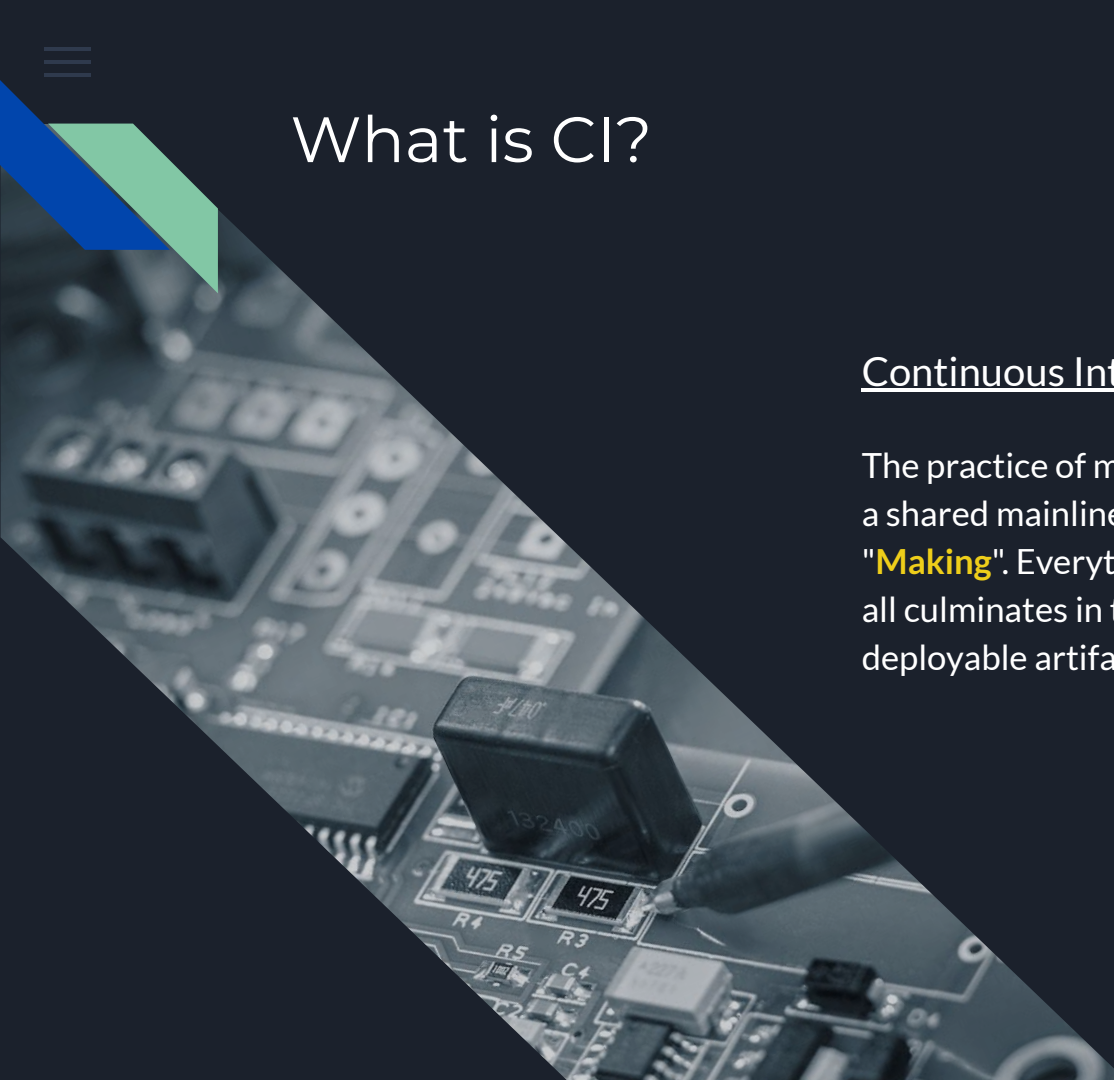# Benefits of CI/CD
Udapeople

What is CI?

Continuous Integration

The practice of merging all developers' working copies to a shared mainline several times a day. It's the process of "**Making**". Everything related to the **code** fits here, and it all culminates in the ultimate goal of CI: a high quality, deployable artifact!

What is CD?

Continuous Deployment

A software engineering approach in which the value is delivered frequently through automated deployments. Everything related to **deploying the artifact** fits here. It's the process of "**Moving**" the artifact from the shelf to the spotlight.

Benefits of CI/CD

Avoid cost

- Less bugs in production and less time in testing
- Prevent embarrassing or costly security holes
- Less human error, Faster deployments

Protect Revenue

- Reduced downtime from a deploy-related crash or major bug
- Quick undo to return production to working state

Benefits of CI/CD

Reduce Cost

- Less developer time on issues from new developer code
- Less infrastructure costs from unused resources

Increase Revenue

- New value-generating features released more quickly
- Less time to market and perform manual checks