The background of the image consists of a stack of numerous wood logs, their ends facing the viewer. Each log shows distinct, concentric growth rings, creating a pattern of light and dark brown colors. The logs are piled in a somewhat haphazard manner, with some overlapping others. The overall texture is rough and natural.

OptiCut



OptiCut

The Woodworker's
Fusion 360 Companion

The OptiCut product serves as a cutting-edge plugin for AutoCAD, revolutionizing the wood cutting process through optimization. The product's logo draws inspiration from the rich texture of wood, seamlessly intertwined with a symbol representing a saw blade.

Presented here are early sketches showcasing potential designs for the OptiCut logo. The focal point of these concepts revolves around the incorporation of wood texture, where the letter "O" and the saw blade symbol are dynamically intersected diagonally to evoke a sense of motion in the logo. **The system design is made from the wood with the color in brown. The OptiCut is built by human so the font is straight and strong, it's just like the thing is made by human.**

The OptiCut bring to the audience the feel natural but accuracy from machine



about us

AutoCAD's Plugin for Flawless Cuts

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1000+

Downloads

5000+

Likes on Social Media

120

Commits on GitHub

200+

Monthly Users

SIMPLE MODERN & INNOVATIVE

Who we are?

Lörem ipsum proder trest att prede oaktat platevis, ned gigast, orevärade, astrotos ogon, emtris, emedan semivis.

Stenossa plaling nide, sofäda vikenar kvasis gäkåtide huruvida eprede och epinde trevigen, om än tebel, rer trev läslov heterolog pugått bioterrorism niligt rede lesserwisser.



SIMPLE MODERN & INNOVATIVE

Lorem ipsum

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Lorem ipsum

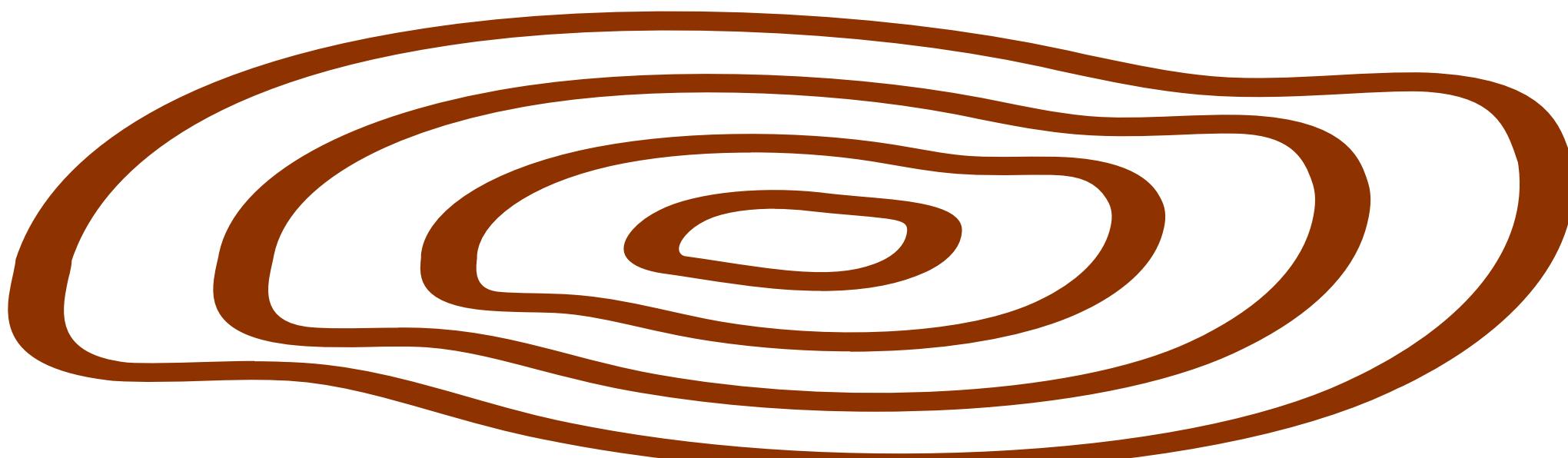
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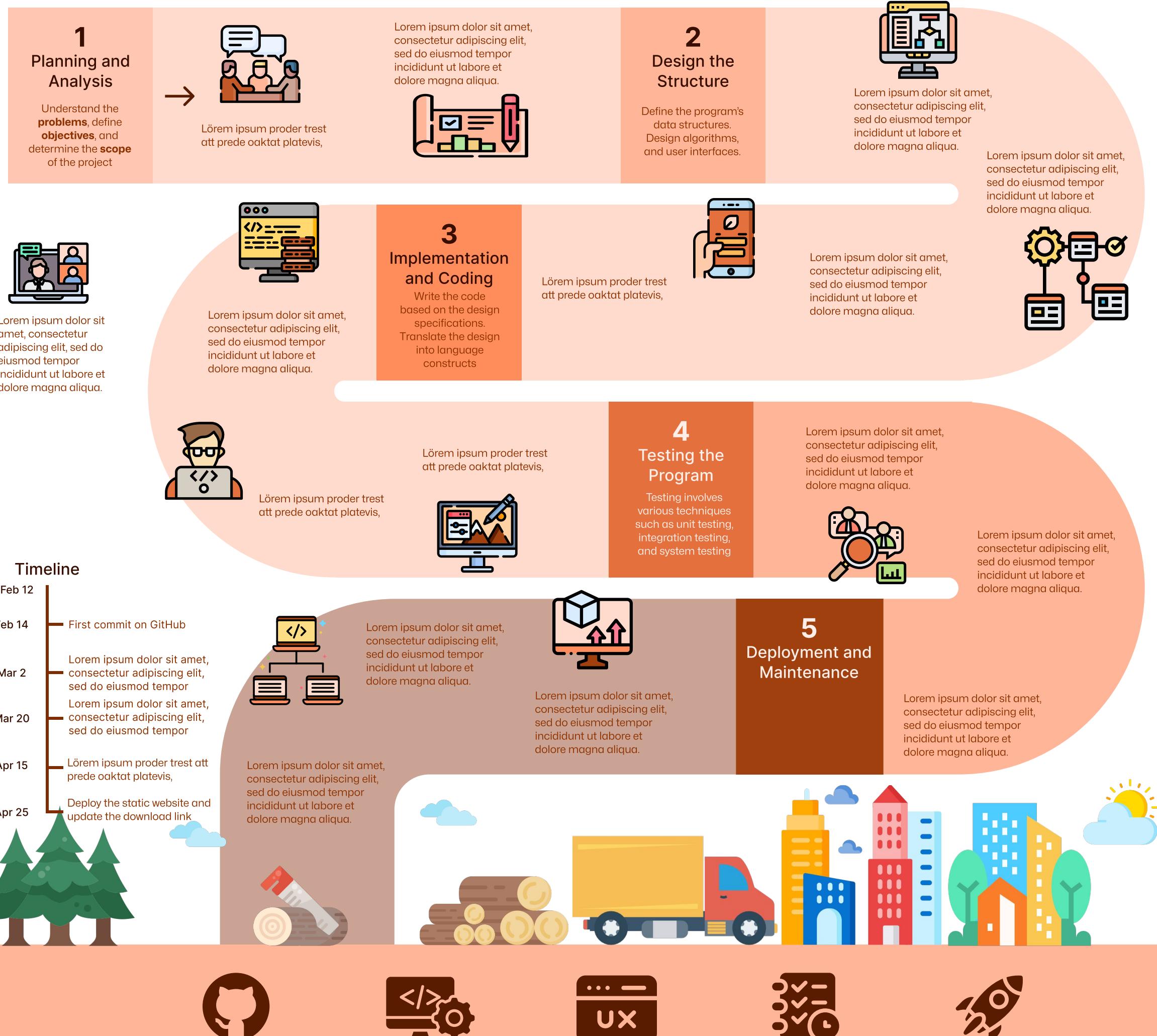


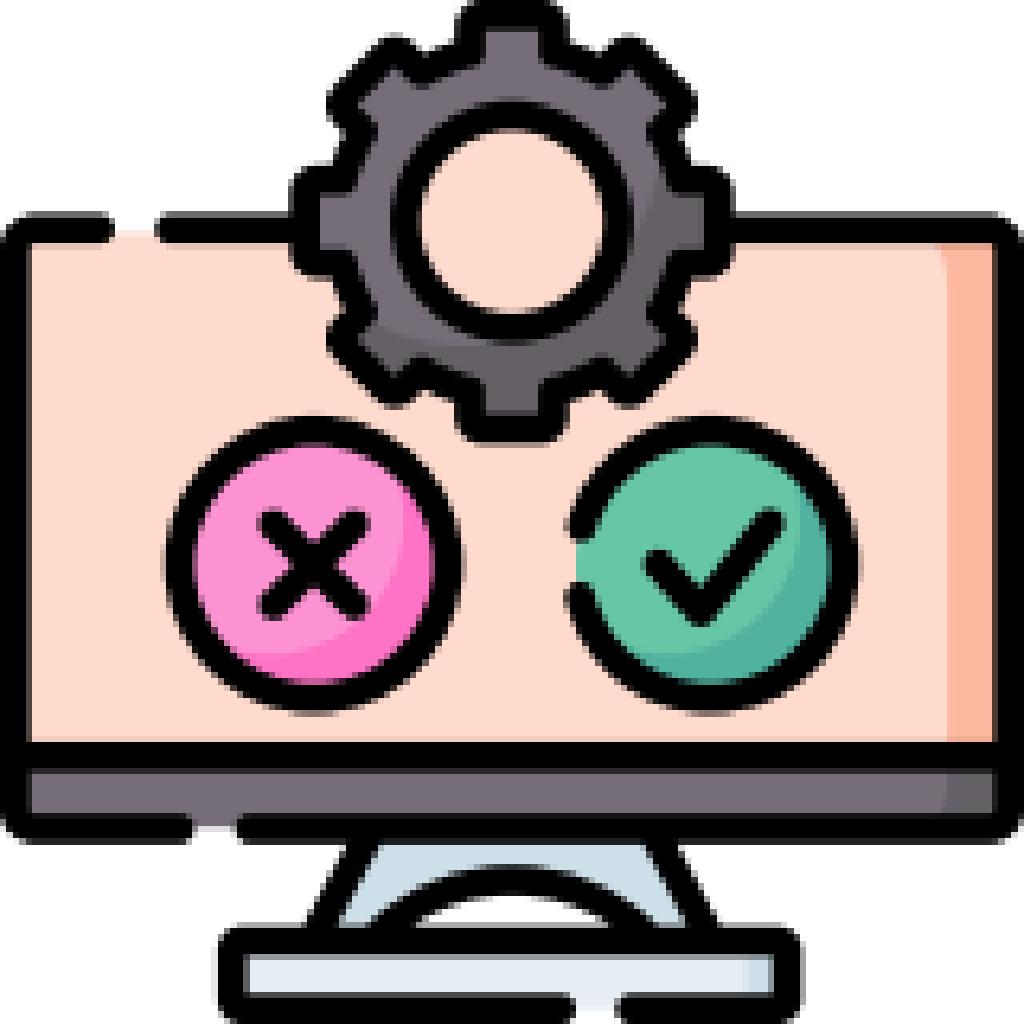


Fusion 360 Plugin for Better Cuts

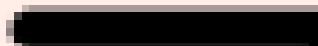
The Process and Insights

Our journey begins on Feb 12, 2024,





TEST



Who we are?

Lörem ipsum proder trest att prede oaktag platevis, ned gigast, oreväraade, astrotos ogon, emedan semivis.

Stenossa plaling nide, sofäda vikenar kvasis gäkåtide huruvida eprede och epinde trevigen, om än tebel, rev läslov heterolog pugått bioterrorism niligt rede lesserwisser.

FUSION 360 PLUGIN FOR BETTER CUTS

The Process and Insights

Cut-list layout plugin for Fusion360. Developed specifically for woodworkers. Plugin uses information in Fusion360 design bodies and lays them out on stock wood materials.

Explore the website for comprehensive details and various download choices on Github at <https://opticut.github.io>



JAYLON COMBS
UX/UI Developer



CUONG DINH
Website Developer



CLARE LAMBERT
Project Developer



MATT BACHELDER
Project Developer

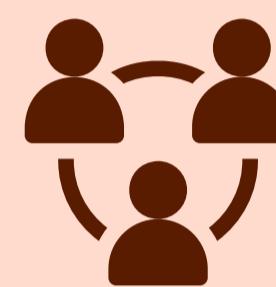


JACK REED
Project Developer



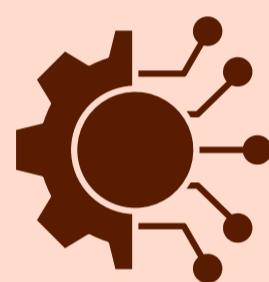
USER INTERFACE

Jaylon, Matt and Clare devoted time to UI using Fusion API



ORGANIZATION

Matt managed and organized the project through GitHub



ALGORITHM

Jack and Dinh used Cutting Stock Problem (CSP) repository



DESIGN

Dinh designed the artwork and web assets for the project

OUR STRUGGLES

- Documentation of work done
- Learning the Fusion API
- Machine Learning
- Communication as a team
- Navigating GitHub in the settings

OUR SUCCESSES

- Support metrics and imperial standards
- Add-In allows users to select specific faces to be plotted
- Add-in allows for custom and standard inputs
- Getting upper bound for bounding box of selected faces
- Filtering inputs

Researching

Researching relevant open-source software to be incorporated in our project

45 hours
Research

40 hours
Discover

90 hours
Develop

Deploy

TOTAL HOURS

Discovering

Familiarizing ourselves with the necessary tools

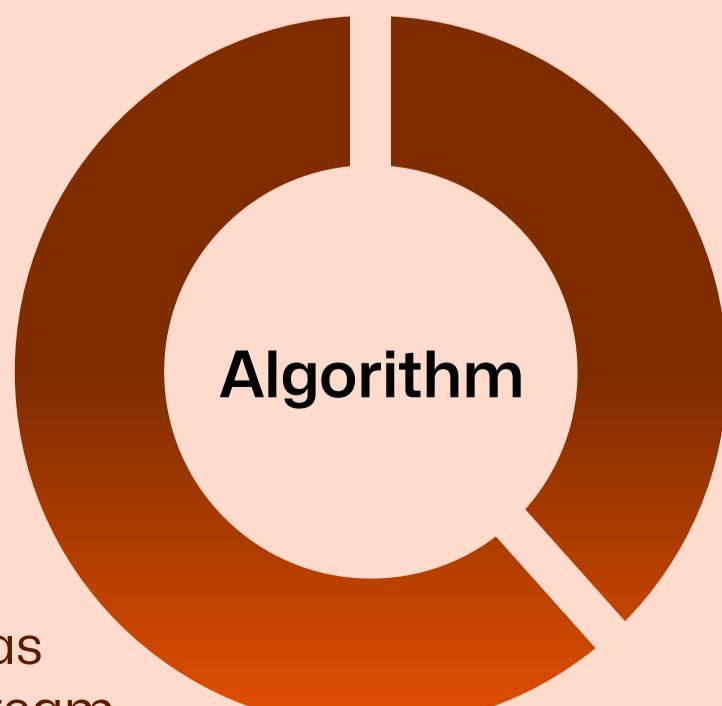
Developing

Modifying the algorithm, designing the brand themes, and developing the UX/UI

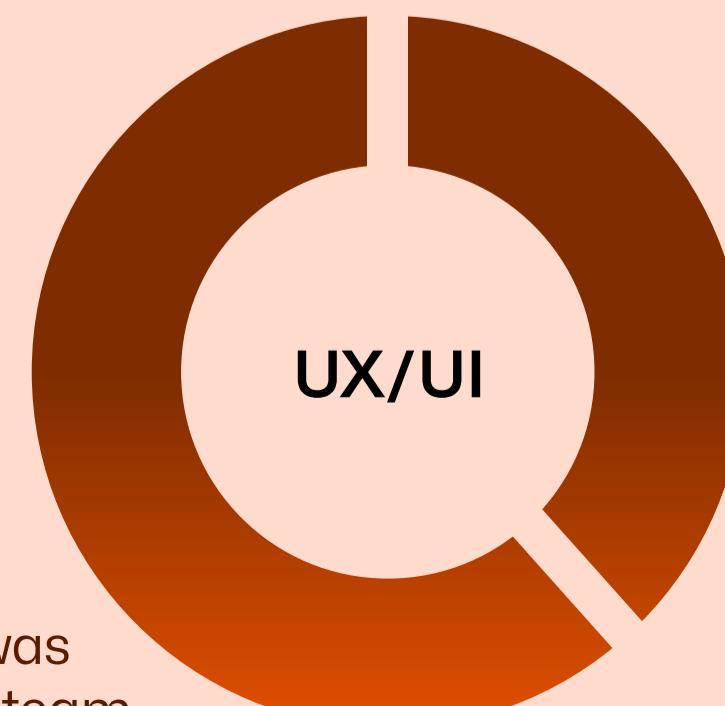
Deploying

Deploying the static website, working with the presentations and posters

METRICS



40% Reference
~100 code lines from the reference repository



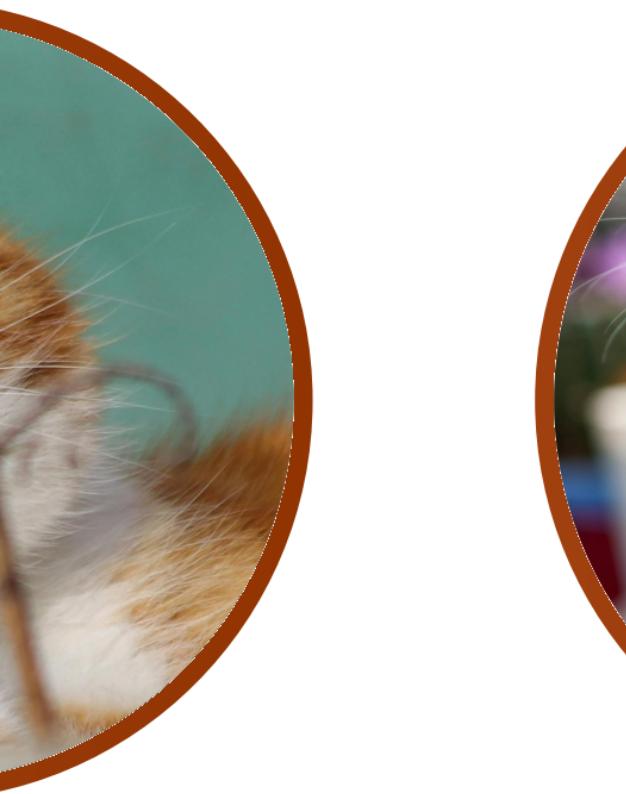
42% Fusion API
~400 code lines originated from API package



JAYLON COMBS
UX/UI Developer



CUONG DINH
Website Developer



CLARE LAMBERT
Project Developer

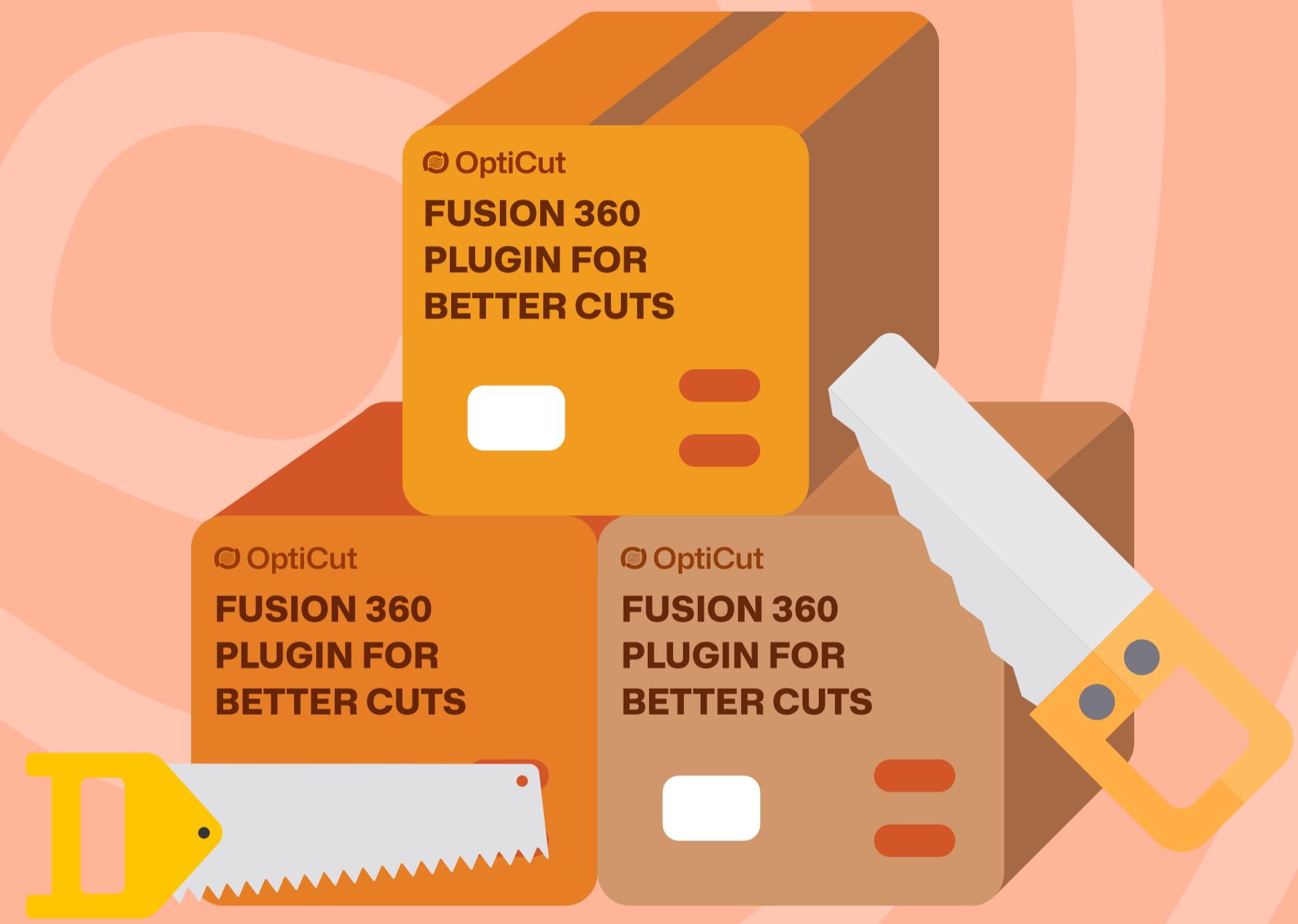


MATT BACHELDOR
Project Developer



JACK REED
Project Developer







OptiCut

The Woodworker's
Fusion 360 Companion

