

# Open Design & Technology

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Empowering Designers to Embrace Technology



# Introduction

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Course Overview

Week 1

# Why?

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Modern problems require people who can:

- Understand **technology deeply**
- Think **systemically**
- Design **human-centered solutions**
- Work across **disciplinary boundaries**

# Goals of the module

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- Learning how to code and make circuits.
- Using design principles of technology to further your craft
- Understanding the approach of integrating technology into their design initiatives



# Classroom Etiquettes & Attitudes

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- **Having fun** is NOT optional!
- It can be a **difficult** module for some. Align your personal goals with how far you can stretch.
- Being **curious** and asking a lot of questions is mandatory.
- Take as many **notes/diagrams** as you can.
- Food & Beverages are not allowed in the classroom and its important to leave it in tidy and clean condition.

# Assessment

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- 2 Assessments
- Holi Break | Semester End
- Assessment 1 : Understanding of concepts & application
- Assessment 2 : Creative endeavor
- Module Blueprint

Individual evaluation

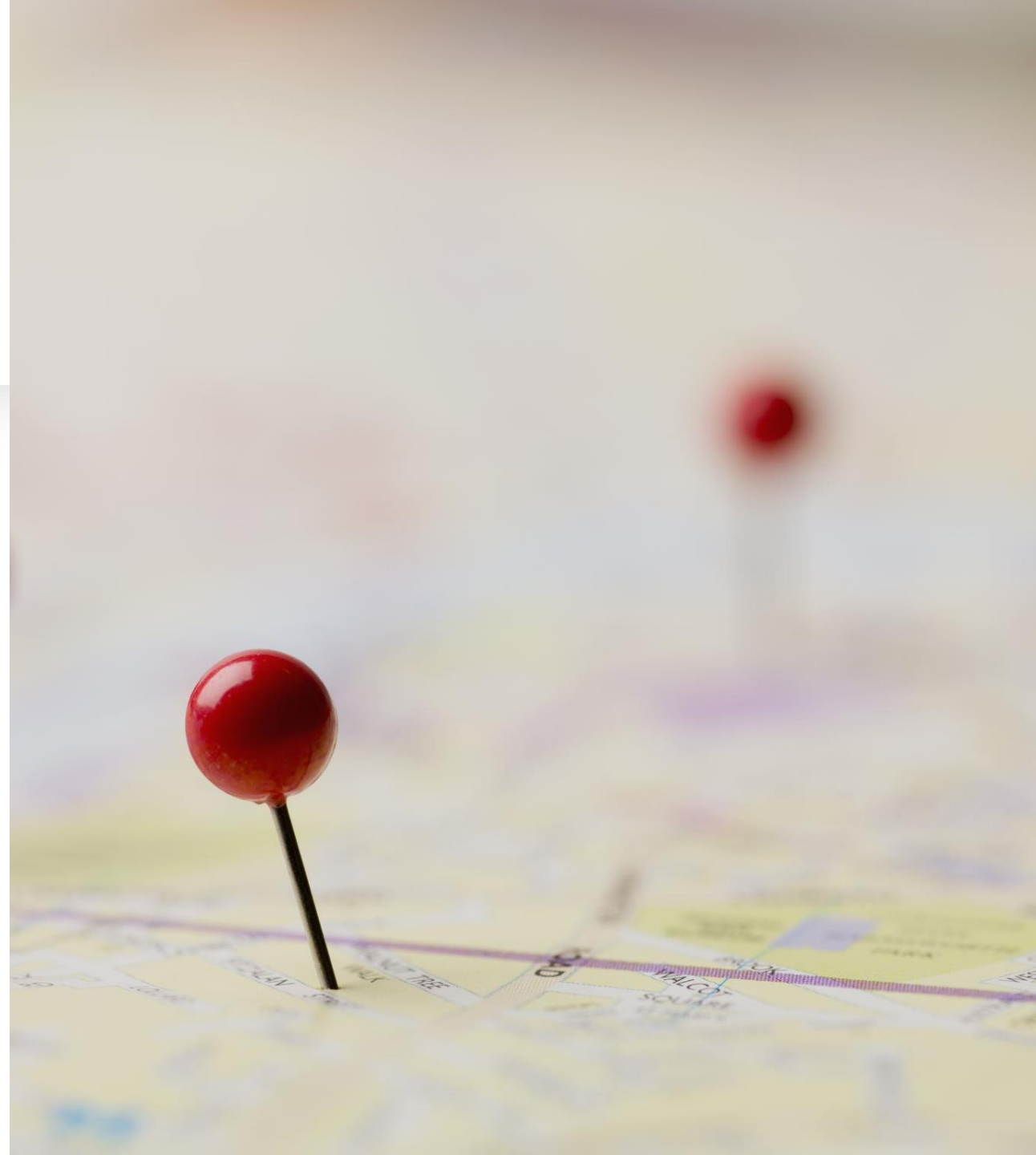


# Group Formation

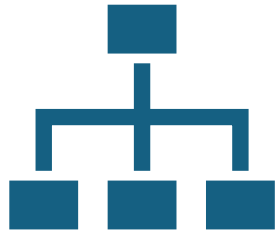
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# How do you name your files??

- Poster\_final.psd
- Poster\_final2.psd
- Poster\_final\_revised.psd
- Poster\_final\_revised\_last.psd
- Poster\_final\_revised\_last\_FINAL.psd



# Core Problem



## Design Problems We All Face

Overwriting files

Losing old versions

Confusion in group work

“Who changed this?”

No clean history of work



***Git was invented to solve exactly this.***

# Git & GitHub

An Introduction

# Git

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- **Git** is a **version control system** that helps track changes in files over time.
- It allows multiple people to work on the same project, keep a history of edits, and go back to earlier versions if needed.

Git records:

- What changed
- Who changed it
- When it changed



# GitHub

## **GitHub helps you:**

- Work in teams
- Show process (not just final output)
- Build credibility
- Participate in open design projects
- Learn industry workflows early

Not just code, can store:

- Posters
- UI designs (Figma)
- Sketches
- Documents etc.

A collection of colorful geometric shapes including a purple circle, a green triangle, a blue dashed line, an orange semi-circle, a purple circle, a green square, and an orange circle with blue dashed lines around it.

# GitHub Terminologies

# Repository (Repo)

A **Repository** is a central place where all the files of a project live, along with their history (changes over time).

It can contain:

- Files (text, images, code, etc.)
- Folders
- Previous versions of files

Imagine a Google Drive folder for a group project.  
All documents, images, and updates are stored there, and everyone can see the latest version.

# Branch

A **Branch** is a separate line of work inside a repository where you can make changes **without affecting the main version**.

The default branch is usually called **main**.

Rough Draft : You photocopy the original document and experiment on the copy.  
The original stays safe until you decide to replace or merge it.

# Pull Request (PR)

A **Pull Request** is a request to merge changes from one branch (or fork) into another branch, usually into main.

It allows:

- Review
- Discussion
- Approval before merging

You finish your assignment and submit it for review.  
The teacher checks it and decides whether to accept your changes.

# Fork

A **Fork** is a personal copy of someone else's repository, created in your own GitHub account.

You can freely experiment without affecting the original repository.

You photocopy a book so you can highlight, write notes, or modify it without touching the original book in the library.



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Term	Think of it as
Repository	Project folder
Branch	Rough draft
Fork	Personal copy
Pull Request	Submission for review



The background of the slide features a collage of overlapping squares in various colors including pink, orange, yellow, purple, teal, and green. Each square has a smaller, semi-transparent speech bubble of a different color placed on it, creating a layered, geometric pattern.

# Activity 1 : Repository

Creating a Repo | Adding  
files | Editing files |  
Branching



# Activity 2 : Fork, Pull Request

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"Issues??" | "Protecting the main" (Homework)