



# Plan of approach

This document explains how to integrate work from all teams in Unity using GitHub. It shows the steps for programming, art, sound, and gameplay integration.

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## Recommended Tools

- **GitHub Desktop (Recommended)**  
User-friendly interface, easier for beginners.
  - **Command Line (Optional)**  
Only recommended for experienced Git users.
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## General Integration Steps

1. **Clone the repository**  
Only needed once when starting the project.
2. **Always pull the latest changes**  
Pull the latest version of the `dev` branch before working.
3. **Create your own branch**  
Each feature or task must have its own branch.
4. **After finishing your work:**
  - Test in Unity
  - Commit your changes
  - Push your branch to GitHub
5. **Create a Pull Request (PR)**  
PR should merge your branch into `dev`.

## 6. Code review

Another team member checks and approves the PR before merging.

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# Programming Integration

## 1. Switch to the programmer's branch

Their feature should be in a separate branch.

## 2. Open Unity and check for conflicts

- Unity may reimport assets or scripts
- Fix compile errors if needed

## 3. Continue their work

- Add missing code or functionality
- Clean up scripts
- Follow tasks listed in GitHub
- **Note:** Programmers handle combining animations with assets under the supervision of the Art Integrator.

## 4. Write clear commit messages

- Explain changes (don't just write "fix")

## 5. Create a Pull Request

- Tag someone for review if possible
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# Art Integration

## 1. Switch to the art branch

Their assets, textures, models, or animations will be located there.

## 2. Check the art files

- Ensure folder structure is correct
- Confirm file names follow the project's naming conventions

### 3. Continue their work

- Prepare assets for programming or gameplay use
- Update art documentation:
  - File locations
  - Prefab/animation names
  - How/where the asset should be used
- **Note:** Art Integrator supervises asset usage in the scene but usually does not assemble the full scene themselves. Full scene assembly is a collaborative task with programming and gameplay integrators.

### 4. Write clear commit messages

- Example: "Added player run animation files + updated art documentation"

### 5. Create a Pull Request

- Tag someone for review if possible
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## Sound Integration

### 1. Switch to the sound branch

Their audio work should be located there.

### 2. Open Unity and import audio files

- Check compression settings and file format

### 3. Continue their work

- Assign audio to objects, triggers, animations, or events
- Test if sounds play correctly during gameplay
- **Note:** If the Sound Integrator lacks technical knowledge, a programmer can do this under supervision.

### 4. Write clear commit messages

- Example: "Added door open sound to door prefab"

### 5. Create a Pull Request

- Tag someone for review if possible
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## Gameplay Integration

### 1. **Switch to the gameplay branch**

Their gameplay work should be in a separate branch.

### 2. **Open the gameplay document**

- Contains all elements to integrate (art + programming)
- Updating and maintaining this document is part of the integrator's job

### 3. **Continue their work**

- Merge elements created by programmers (scripts, mechanics, events) with elements created by artists (animations, UI, assets) inside the document
- Ensure the document clearly describes how everything fits together
- **Note:** Full scene integration is a **team effort** involving programming, art, and gameplay integrators.

### 4. **Write clear commit messages**

- Example: "Updated gameplay document with new enemy attack sequence"

### 5. **Create a Pull Request**

- Tag someone for review if possible