

# AI Game Builder – Getting Started Guide

From zero to a playable game in 10 minutes.

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## Prerequisites

Before you begin, install these three tools:

Tool	Version	Install
<b>Godot Engine</b>	4.3+	<a href="http://godotengine.org/download">godotengine.org/download</a> — download the <b>Standard</b> version
<b>Node.js</b>	20+	<a href="https://nodejs.org">nodejs.org</a> — use the LTS version
<b>Claude Code</b>	Latest	<code>npm install -g @anthropic-ai/claude-code</code>

Verify everything is installed:

```
godot --version      # Should show 4.3.x or higher
node --version       # Should show v20.x or higher
claude --version    # Should show the Claude Code version
```

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## Step 1: Get the AI Game Builder

### Option A: Clone from GitHub (when available)

```
git clone https://github.com/your-username/godot-ai-builder.git ~/ai-game-builder
```

### Option B: Use a local copy

If you already have the folder (e.g., you built it yourself or received it as a zip):

```
# Just note where it lives, e.g.:
ls ~/ai-game-builder      # or wherever you put it
```

The folder is a **Claude Code plugin** — it contains skills, hooks, MCP config, and more:

```
ai-game-builder/
├── .claude-plugin/      # Plugin manifest (makes this a Claude Code plugin)
├── skills/              # 14 game generation skills
├── hooks/               # Stop hook (build guard)
├── .mcp.json            # MCP server configuration
├── mcp-server/          # MCP bridge (Claude ↔ Godot)
├── godot-plugin/        # Godot editor plugin
├── knowledge/           # GDScript reference, patterns, etc.
├── setup.sh              # Godot editor plugin installer
└── README.md
```

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## Step 2: Create a New Godot Project

Open the Godot editor. You'll see the **Project Manager**.

1. Click “**New Project**”
2. Set the **Project Name** (e.g., `my-first-game`)
3. Choose a **Project Path** (e.g., `~/games/my-first-game`)
4. Select **Renderer**: choose **Forward+** (default) or **Compatibility** for 2D games
5. Click “**Create & Edit**”

Godot opens the editor with an empty project. This is fine — Claude will create all the files.

**Tip:** You can close the Godot editor after creating the project. The setup script only needs the project folder to exist with a `project.godot` file. You'll reopen Godot in Step 4.

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## Step 3: Install the Godot Editor Plugin

The setup script installs the HTTP bridge plugin into your Godot project:

```
cd ~/ai-game-builder  
./setup.sh ~/games/my-first-game
```

Replace `~/games/my-first-game` with the actual path to your Godot project.

```
=====  
 AI Game Builder – Godot Editor Setup  
=====  
  
Godot project: /Users/you/games/my-first-game  
  
Installing MCP server dependencies...  
✓ MCP server ready  
Installing Godot editor plugin...  
✓ Plugin installed to /Users/you/games/my-first-game/addons/ai_game_builder/  
Installing knowledge base...  
✓ Knowledge base installed  
  
=====  
 Godot editor setup complete!  
=====
```

**What just happened:** - The Godot HTTP bridge plugin was copied into your project's `addons/` folder - MCP server dependencies were installed (Node.js) - A knowledge base was added with GDScript references and game patterns

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## Step 4: Enable the Plugin in Godot

1. Open your project in the **Godot editor** (double-click it in the Project Manager)
2. Go to **Project → Project Settings**

3. Click the **Plugins** tab at the top
4. Find “**AI Game Builder**” in the list
5. Check the **Enable** checkbox

You should see a new “**AI Game Builder**” panel appear in the bottom dock. It shows: - A green dot when the HTTP bridge is active (port 6100) - A log of all commands received from Claude Code

**Important:** Keep Godot open. Claude Code communicates with it in real-time through the plugin.

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## Step 5: Open Claude Code with the Plugin

**This is the critical step.** You MUST load the plugin when starting Claude Code, otherwise the MCP tools and skills won’t be available.

Open a new terminal and navigate to your Godot project:

```
cd ~/games/my-first-game  
claude --plugin-dir ~/ai-game-builder
```

**--plugin-dir is required for local usage.** It tells Claude Code to load the AI Game Builder plugin from your local folder. Without it, Claude won’t have the MCP tools to talk to Godot.

**Alternative:** If you installed via marketplace (`/plugin install godot-ai-builder`), the plugin loads automatically and you can just run `claude`.

**How to verify the plugin is loaded:** After Claude starts, you can check: - Skills show up when you type `/godot-ai-builder`: (tab completion) - Claude mentions MCP tools like `godot_get_project_state` when you ask it to build something - If Claude uses `curl http://localhost:6100/...` instead of MCP tools, the plugin is NOT loaded – restart with `--plugin-dir`

Claude Code starts with full awareness of: - The Godot project structure - All 14 game generation skills (namespaced as `/godot-ai-builder:godot-*`) - MCP tools to control the Godot editor (reload, run, errors, assets) - The Stop hook that keeps it focused during builds

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## Step 6: Tell Claude to Build Your Game

You have two ways to start:

### Option A: Type a prompt

Tell Claude what game you want in plain English:

Create a top-down shooter where I move with WASD, aim with mouse, and shoot enemies that chase me. Keep score.

Build a 2D platformer with double-jump, coins, spikes, and 3 levels. Include a main menu and game over screen.

Create a complete tower defense game with 3 tower types, 10 waves, gold economy, lives system, full UI, and polish.

### **Option B: Point to a folder with game design documents**

If you already have a game design document (GDD), feature list, art references, level designs, or any planning docs — put them all in a folder and tell Claude:

Build the game from the docs in ~/my-game-design/

Take the folder ~/desktop/rpg-project/ and start working on this game.

Read all the documents in ./game-plan/ and build this game in Godot.

Claude will: 1. Scan every file in the folder (.md, .txt, .pdf, .json, images, etc.) 2. Read each document and report what it found 3. Generate a PRD from your documents 4. Ask for your approval 5. Build the game phase by phase

This is powerful for complex games — prepare your design offline, then let Claude build it.

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## **What Happens Next**

**Note about the MCP server:** You don't need to start it manually. Claude Code automatically launches the MCP server (Node.js process) when the plugin loads. The server bridges Claude Code to the Godot editor via HTTP on port 6100. Just make sure Godot is open with the plugin enabled.

Claude follows the **Game Director** protocol — a 6-phase build process:

### **Phase 0: PRD (Product Requirements Document)**

Claude writes a detailed game design doc and asks for your approval before writing any code.

### **Phase 1: Foundation**

Creates the project structure, player movement, camera, and background. Runs the game to verify it works.

### **Phase 2: Player Abilities**

Adds shooting, jumping, or whatever the player's actions are. Tests everything.

### **Phase 3: Enemies & Challenges**

Creates enemy types, spawn systems, collision, health, scoring, and difficulty ramping.

### **Phase 4: UI & Game Flow**

Builds the main menu, HUD, game over screen, pause menu, and screen transitions. Wires up the full game loop: menu → play → die → retry.

### **Phase 5: Polish**

Adds game "juice" — screen shake, hit flash, death particles, spawn animations, floating score numbers, smooth camera, and visual effects.

## Phase 6: Final QA

Runs the game multiple times, checks for errors, edge cases, and memory leaks. Reports the final status.

**The Stop hook keeps Claude locked in until all 6 phases are complete.** You don't need to worry about it quitting halfway through.

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## During the Build

While Claude is working, you'll see activity in two places:

**In the terminal (Claude Code):** - Claude reports progress after each phase - Shows quality gate results (e.g., "Phase 3 complete. 6/6 gates passed.") - Asks for your input if needed (e.g., PRD approval)

**In the Godot editor (AI Game Builder dock):** - Shows real-time progress messages: file writes, phase transitions, error fixes - Shows bridge activity (reload, run, error check commands) - When Claude spawns sub-agents, each agent logs its progress to the dock too - The game runs automatically in the editor when Claude tests it - You can see the game come to life in real-time

**You can interact during the build:** - Approve or modify the PRD when Claude presents it - Ask for changes ("make the enemies faster", "change the color palette") - Claude will adjust and continue

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## After the Build

When all 6 phases complete: 1. Claude reports what was built (file list, features, quality gates) 2. The Stop hook disengages (Claude can finish normally) 3. Your game is ready to play in the Godot editor 4. Press **F5** in Godot (or the play button) to run it anytime

Your project folder now contains:

```
my-first-game/
├── project.godot          # Game settings + input mappings
├── scripts/                # All game logic
│   ├── main.gd             # Game loop, spawning, score
│   ├── player.gd           # Player controller
│   ├── enemy.gd             # Enemy AI
│   └── bullet.gd            # Projectile logic
    └── ui/                  # HUD, menus, game over
├── scenes/                 # Scene files
├── assets/                  # Generated sprites
├── docs/PRD.md              # The game design document
├── addons/                  # Godot editor bridge plugin
└── knowledge/               # Reference docs
```

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## Troubleshooting

### Claude uses curl instead of MCP tools (MOST COMMON ISSUE)

This means the plugin wasn't loaded. Claude is bypassing the MCP bridge and hitting port 6100 directly.

- **Fix:** Restart Claude with the plugin flag: `claude --plugin-dir ~/ai-game-builder`  
- **Verify:** Ask Claude "what MCP tools do you have?" — it should list `godot_get_project_state`, `godot_run_scene`, etc.

### Claude writes files silently (no progress output)

The skills instruct Claude to report progress. If it's not doing so: - Tell Claude: "Report every file you write and every action you take. I want to see progress." - Or invoke the Director skill explicitly: `/godot-ai-builder:godot-director`

### "Godot bridge not connected"

- Make sure the Godot editor is open with your project
- Check that the AI Game Builder plugin is enabled (Project → Project Settings → Plugins)
- The plugin runs an HTTP server on port 6100 — make sure nothing else uses that port

### Game breaks after project.godot edit

- Claude may accidentally strip sections from project.godot (like [autoload])
- **Fix:** Tell Claude "Check project.godot — make sure the [autoload] section is intact"
- The skills now instruct Claude to ALWAYS read project.godot before editing it

### "No project.godot found"

- Run setup.sh with the path to a valid Godot project (the folder containing project.godot)
- If you haven't created a project yet, do Step 2 first

### Claude stops unexpectedly

- If Claude hits a rate limit, wait a moment and type "continue" — it will resume
- If the build lock is stuck, manually remove it: `rm .claude/.build_in_progress`
- Re-run Claude with `claude --plugin-dir ~/ai-game-builder` and tell it to continue

### Game has errors after build

- Open Claude Code and say: "Fix the errors in my game"
- Claude will call `godot_get_errors`, read the problematic files, and fix them

### Want to start over

- Delete the generated files: `rm -rf scripts/ scenes/ assets/ docs/`
  - Tell Claude: "Create a new game from scratch"
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## Quick Reference

Action	How
Build a complete game	“Create a [genre] game with [features]”
Add a feature	“Add enemies that shoot back”
Fix errors	“Fix the errors” or “Check for errors and fix them”
Polish the game	“Add screen shake, particles, and juice”
Change something	“Make the player faster” / “Change the background to dark blue”
Cancel mid-build	<code>rm .claude/.build_in_progress</code> then Claude can stop
Run the game	Press F5 in Godot, or Claude runs it automatically
See game errors	Claude checks automatically, or say “Get errors”

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*Built with AI Game Builder – Claude Code + Godot 4*