Workshop: Vibe Coding a 3D City with Antigravity

Target Audience: Architecture & Planning Students
Goal: Create a stunning, interactive 3D dashboard of Atlanta (or your site) by collaborating with AI. No manual coding required—just vibes.

📣 Phase 1: The Setup (Vibe Check)

We aren't writing code from scratch. We are directing an AI developer.

1. **Antigravity Acess**: Ensure you have your Antigravity AI assistant ready.
2. **Mapbox Token**: Sign up at mapbox.com (https://www.mapbox.com/) and grab your public **Access Token**. You'll need to give this to Antigravity.
3. **Vision**: Have a clear aesthetic in mind. Is it Cyberpunk? Solarpunk? Minimalist Architectural?

🤖 Phase 2: The Prompt (Genesis)

Start a new session with Antigravity and copy-paste this prompt to kickstart the project:

> "I need a dashboard for an architecture project. It should be a web app using Vite and React. The centerpiece is a full-screen, 3D interactive map of Atlanta using Mapbox GL. I want it to look [INSERT YOUR VIBE: e.g., 'dark, sleek, and premium' or 'clean, white-model aesthetic']. Please set up the project structure for me."

What happens next?

- Antigravity will create the files.
- It might ask for your Mapbox Token. Paste it when asked.
- It will install the libraries (`react-map-gl`, etc.).

🎨 Phase 3: The Aesthetic (Styling)

Now, we iterate. Don't touch the code—refine the prompt.

To get 3D Buildings:

> "The map looks flat. Add a 3D building layer. Make the buildings extrude based on their height. Color them [e.g., 'light grey'] and give them a slight transparency so we can see the street grid."

To change the atmosphere:

> "The lighting is too harsh. Can we change the map style to a dark mode? And add a floating panel on the left for project statistics with a glassmorphism effect."

To add architectural context:

> "I want to visualize a specific site at [Coordinates]. Can you fly the camera there and rotate it 45 degrees?"

🚀 Phase 4: Exhibition (Ship It)

When the vibes are immaculate, ask Antigravity to put it online.

> "I want to publish this to GitHub Pages. Please initialize the git repo, set up the deployment action, and tell me what command to run to push it."

Antigravity will handle the specialized configuration files (`vite.config.js`, `.github/workflows`) so you don't have to.

💡 Pro-Tips for Vibe Coding

- **Be Specific about Feelings**: "Make it feel expensive" or "Make it look like a sci-fi HUD" are valid prompts. Antigravity translates "vibes" into CSS.
- **Iterate Fast**: If something looks wrong, just say "That broke the map, undo it" or "The text is too small, make it readable."
- **Ask for Explanations**: "How exactly is that 3D layer working?" helps you learn the logic without getting bogged down in syntax.