



# Gaze-Adaptive Prototype Installation Guide

This guide explains how to set up and run the **Gaze-Adaptive Prototype System** on your computer. The complete experience lives in a single HTML file (`index.html`). Choose either of the two launch methods below—direct browser opening or a lightweight local server (e.g., VS Code Live Server).

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## 1. System Requirements

Make sure your environment satisfies the following:

- **Operating System**
    - Windows 10 or later, or
    - macOS 11 or later
  - **Browser**
    - Latest Google Chrome, Microsoft Edge, Mozilla Firefox, or Safari
    - Browser must support CSS blur and WebGL
  - **Storage & Memory**
    - $\geq$ 100 MB free disk space
    - $\geq$ 4 GB RAM
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## 2. Downloading the Prototype

1. Obtain `index.html` (and the optional `img/ assets`) from the course repository or your instructor.
  2. Save the file(s) to a convenient folder (e.g., `Documents/` or your desktop).
  3. *(Optional)* To use a local background image, place it next to `index.html`, open the HTML file, search for `background-image`, and update `url(...)` with your file name.
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### 3. Launch Method A – Open Directly in the Browser

1. Double-click `index.html`, or right-click → **Open With** → select your browser.
  2. The hero banner (“Gaze Interaction Prototype Suite”) should load immediately.
  3. Move the cursor to verify that the focus spotlight responds—this confirms the script is running.
  4. If you see a blank screen or a security warning, switch to Method B.
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### 4. Launch Method B – Serve via Live Server (or Local HTTP)

Use this approach if you want an HTTP URL or if your browser blocks local file scripting.

#### Option 1: VS Code Live Server

1. Open the project folder in **Visual Studio Code**.
2. Install the **Live Server** extension (Ext → search “Live Server”).
3. Right-click `index.html` in the VS Code Explorer and choose **Open with Live Server**.
4. Your browser opens at a URL like `http://127.0.0.1:5500/index.html`.

#### Option 2: Python Simple HTTP Server

1. Confirm Python 3 is installed:

```
python --version
```

2. In Terminal/PowerShell, navigate to the folder containing `index.html`:

```
cd /path/to/project
```

3. Start a server:

```
python -m http.server 8000
```

4. Open your browser at `http://localhost:8000/index.html`.

If you forget to append `index.html`, the server will show a directory listing or a 404 page.

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## 5. Post-Launch Verification

Confirm the prototype is functioning by checking:

- The hero overview with task descriptions is visible (toggle works).
  - The focus spotlight follows your cursor when enabled.
  - Task drawer controls (toggles, sliders, buttons) respond instantly.
  - Heatmap and bandwidth overlays appear when activated.
  - If blur or adaptive effects are missing, update the browser and ensure GPU acceleration is enabled.
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## 6. Uninstallation

1. Delete `index.html` and any associated asset folders you copied.
  2. If you started a local server, stop it (`Ctrl +C` in the terminal) before removing files.
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## 7. Ready for Demo

You can now launch `index.html` using either method whenever you need to run user studies, demos, or evaluations. Enjoy exploring the gaze-adaptive interactions!