

Mirror Bridge Extension



AI Overview

Mirror Bridge is a C++ reflection-based tool that automatically generates bindings for Python, Lua, and JavaScript from C++ code, eliminating manual binding boilerplate.

Overview Mirror Bridge is a library designed to simplify the process of exposing C++ code to other programming languages. Using C++26 reflection, it can automatically discover classes, methods, and fields in your C++ code and generate bindings for Python, Lua, and JavaScript without writing any manual glue code. This allows developers to write performance-critical code in C++ and seamlessly use it in higher-level languages.

Key Features

- Automatic Binding Generation:** Mirror Bridge detects C++ classes, methods, and fields and generates bindings automatically, reducing development time and errors.
- Multi-language Support:** Supports Python, Lua, and JavaScript, enabling cross-language integration from a single C++ codebase.
- Zero Runtime Overhead:** The generated bindings are efficient, with minimal performance cost compared to direct C++ calls.
- Experimental C++26 Reflection:** Requires a compiler supporting C++26 reflection (e.g., Bloomberg's clang-p2996).
- Interactive Playground:** You can test Mirror Bridge in your browser or via Docker without installation.

Usage Example Suppose you have a simple C++ class:

```
class CppCopyclass Vec3 {public: double x, y, z; Vec3(double x, double y, double z) : x(x), y(y), z(z) {} double dot(const Vec3& other) const { return x*other.x + y*other.y + z*other.z; }};
```

To generate Python bindings:

```
BashCopy./mirror_bridge_auto src/ --module vec3 -o .
```

After this, you can call `dot()` from Python directly without writing any binding code. Benchmarks show that even for frequent calls, Mirror Bridge can provide significant speedups compared to traditional Python wrappers, though the actual performance gain depends on the operation size and argument conversion overhead.

Benefits

- Simplifies cross-language development:** No need for pybind11 or other manual binding frameworks.
- Reduces boilerplate:** One command generates bi...

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Mirror Extension for Google Chrome

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Mirror Page

Mirrors the page when you click the icon Simple app for using Chrome with your teleprompter. Vertically flips (mirrors) the contents of the page. (Does not support

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cafeTechne/antigravity-link-extension

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mirror_bridge

The idea of using reflection to generate Python bindings isn't new - it was explored by others before, including in this ACCU 2025 talk. Mirror Bridge builds on these ideas and packages them into a tool

MirrorTube

Provides useful features for dancers Mirror videos, control playback speed, and set up repeating timestamps for looping videos. Perfect for learning dances

Mirror-bridge - Making Python bindings frictionless | Hacker News

As P2996 moves toward standardization, expect this to land in mainline compilers. Possible to use that C++26 compiler just to do code generation for the binding code, and then use

mirror_bridge

Often it's even more skewed - a single hot loop can dominate everything. Mirror Bridge lets you surgically replace just the hot 20% with C++,

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Mirror Bridge

A reflection-based approach for generating Python/Lua/JS bindings for your C++ code - FranciscoThiesen/mirror_bridge

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mirrorbridge-vscode/README.md at main · promise019 ...

Contribute to promise019/mirrorbridge-vscode development by creating an account on GitHub.

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MirrorPlay : Mirror

An Extension to laterally invert videos MirrorPlay: Transform Videos with Ease MirrorPlay is a powerful Chrome extension that allows you to

Mirror Bridge

mirror_bridge is built to be driven by coding agents as well as humans: AGENTS.md: operating manual for agents working in this repo --json everywhere: generate, diff, and doctor emit

mirror_bridge: Outrunning V8, PyPy, and LuaJIT with C++26 Reflection

This single change took the JavaScript binding from $0.7\times$ to $1.5\times$ V8's speed. The C++ computation was always winning; naive data transfer was losing it all back. Mirror Bridge now detects ByteContainer

Mirror extension!

Free for educational, research and entertainment purposes. >>>Instructions:<<<
Pin the "Mirror extension!" to your browser bar. Then, open

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