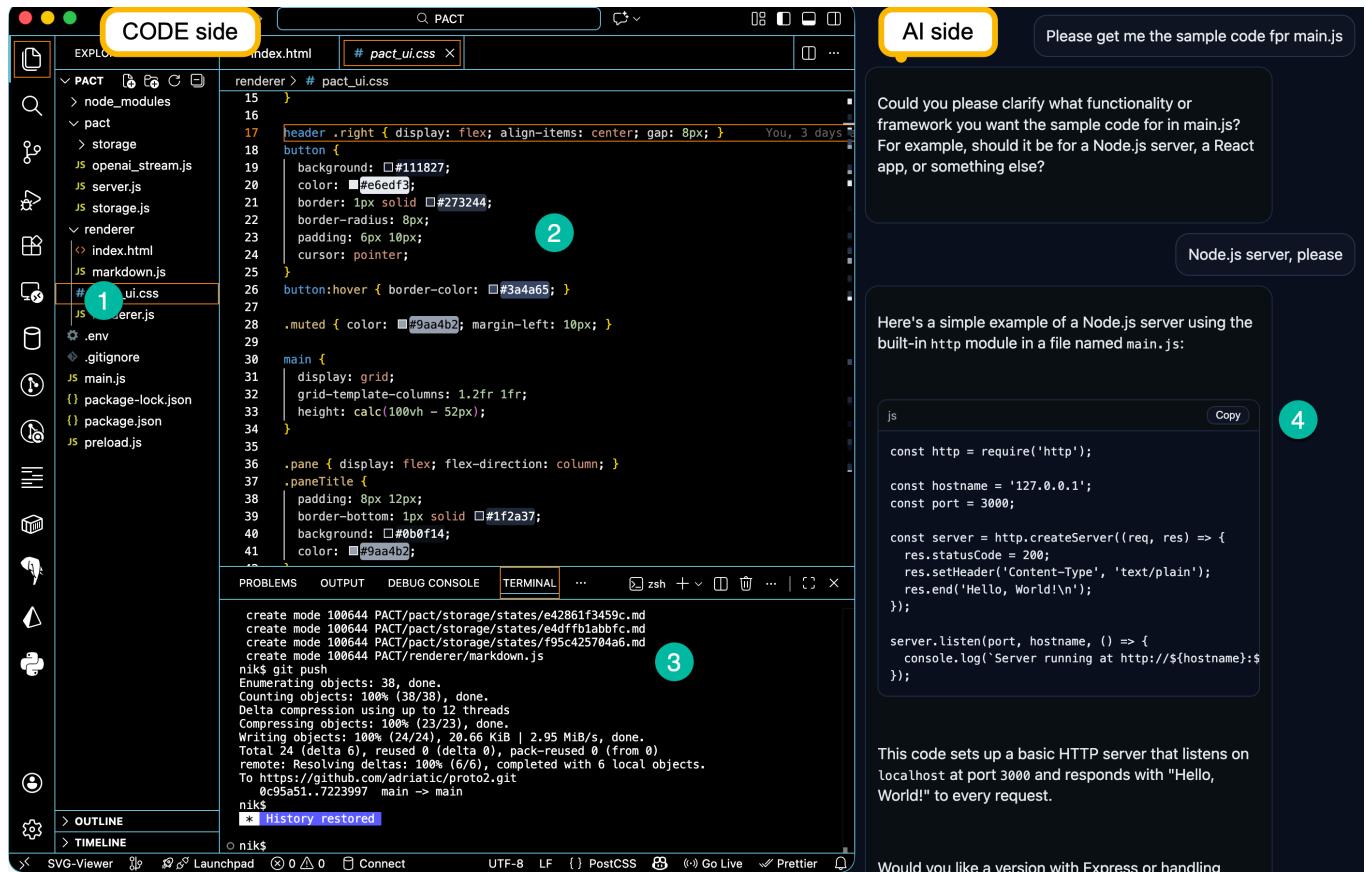


Introduction

Let's use the screenshot as the guide for subsequent definitions



PACT is a supervised workspace for safely evolving software with the assistance of AI.

PACT is built around a simple but strict separation:

- **CODE** side represents the authoritative project state
- **AI** side may propose changes, but never apply them
- **Supervisor** (not depicted on the above screenshot) is the only authority allowed to mutate project state

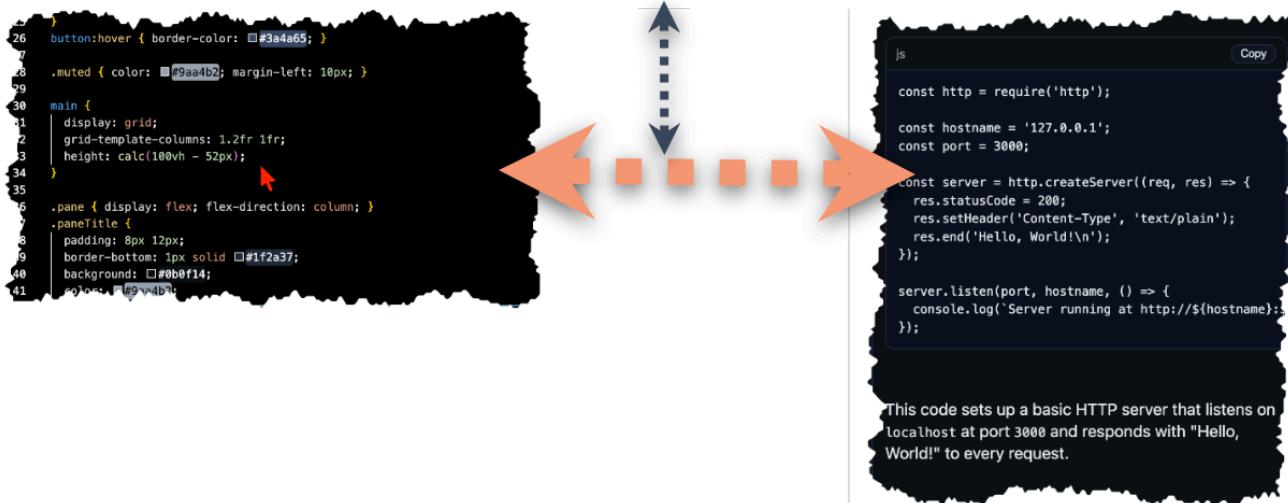
All meaningful changes are:

- Previewed
- Attributable
- Reversible

Undo in PACT refers to **project-state undo**, not editor keystrokes.

Definition of PACT Supervisor

Supervisor



Pact Supervisor is a code module that facilitates and controls the **bidirectional** transfer of data from the AI side to the CODE side. Data are mostly programming statements but not exclusively.

Note that both the yellow arrow (*moving information from CODE to AI and vice versa*) and black arrow (*Supervisor interacting with information transfer*) are bidirectional. The first (yellow) transfers are the primary purpose of PACT as well as the key innovation. Instead of using the AI at the agent level, this architecture allows the developer to collaborate with AI at the highest level - from the architecture definition to debugging and deploying the application.

Please use the texts from the various `readme.md` texts to illustrate the "black" arrow interactions that are safeguards from the developer in the process of running the "yellow" transfers.