Cargo Scan Manual

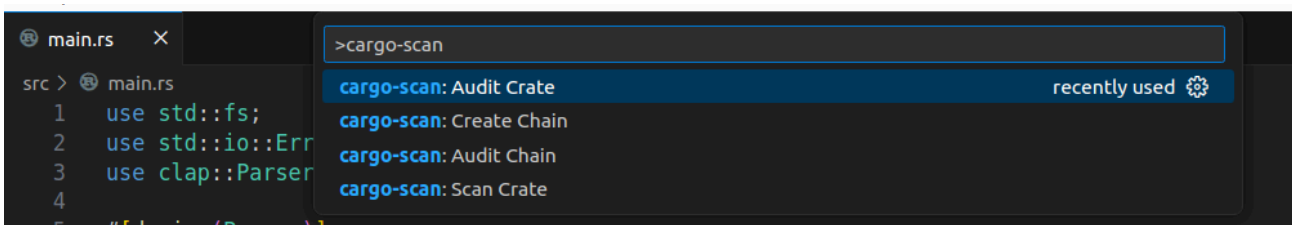
Build and install the extension

1. Clone the repository
2. Build the extension by running `make` in the `editor-plugin` directory. This will produce a `.vsix` file in that location.
3. Launch VS Code and install the extension from the `.vsix` file:
    a. Press `Ctrl + Shift + P` (Linux) or `Cmd + Shift + P` (macOS) to open the Command Palette.
    b. Type `Extensions: Install from VSIX...` and select it.
    c. Navigate to the folder where the .vsix file is located and open it.

Run the extension

After installing the extension in VS Code, open the Rust crate for audit in VS Code.

1. Press `Ctrl + Shift + P` (Linux) or `Cmd + Shift + P` (macOS) to open the Command Palette.
2. Type `cargo-scan: Audit Crate` to scan the crate and perform an audit.



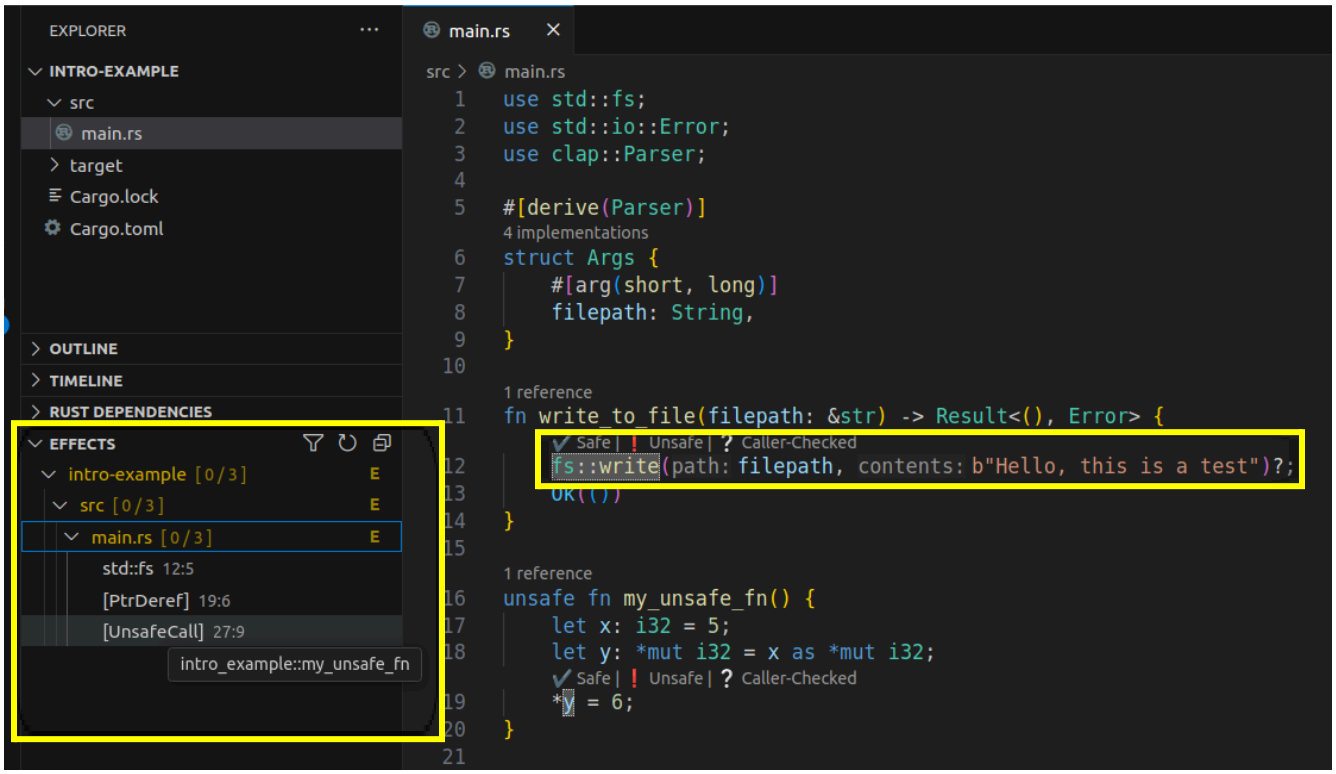
View & Audit Effects

After the crate scan is complete, the list of effects will be displayed in the `Effects` view of the Explorer panel. The effects' locations will be highlighted in the source code and will be annotated with Cargo Scan's safety annotations, to be marked accordingly during an audit.

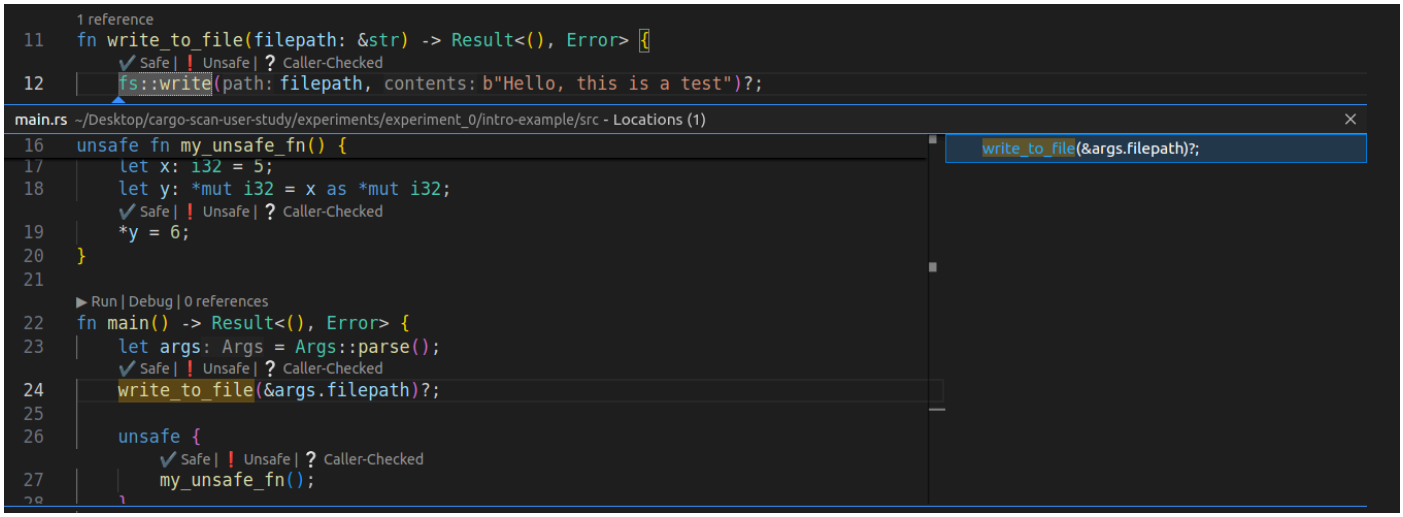
Cargo Scan introduces the following safety annotations:

1. **Safe**: Effect is always safe to call
2. **Unsafe**: Effect is never safe to call – indicates a bug

3. **Caller-Checked:** Effect's safety depends on the calling context and cannot be determined locally at its location

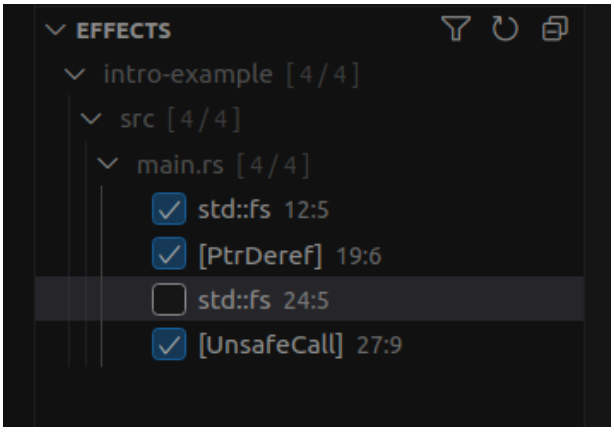


Annotating an effect as Caller-Checked opens a peek view editor with all the caller locations, as shown below.



Reset Safety Annotation

Reset an effect's annotation by unmarking the checkbox next to the effect in the Effects view. If the effect was marked as Caller-Checked prior to resetting, all the caller locations it was propagated to wil be removed.



Filtering Effects

Filter effects by their effect type by pressing the `Filter` icon in the `Effects` view and selecting particular effect types. The view is restored to its original state by pressing the `Refresh` button.