Debugger

Extensions, infrastructure.

Agenda

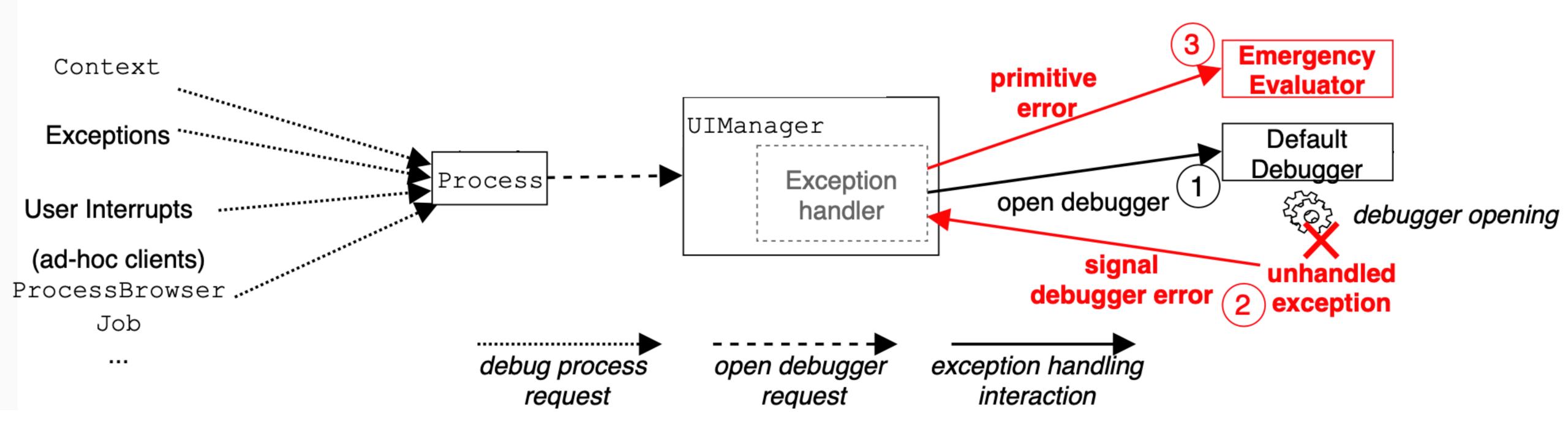
- The infrastructure and how to add your own debugger to Pharo
- The extension mechanism, or plugins

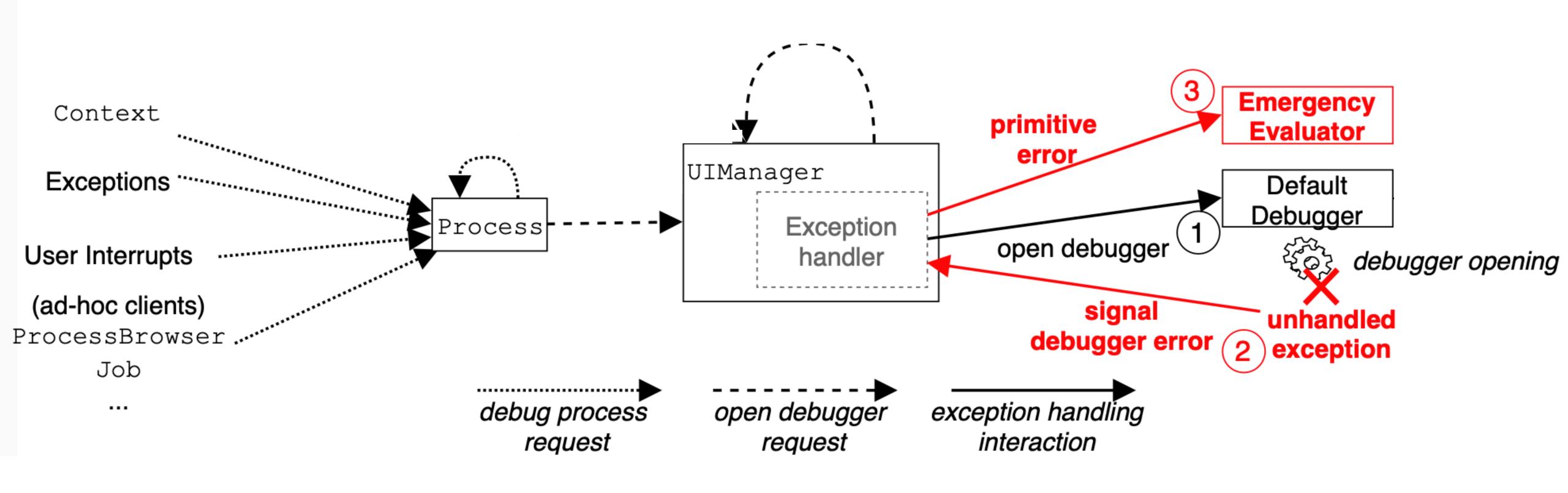
The debugger infrastructure

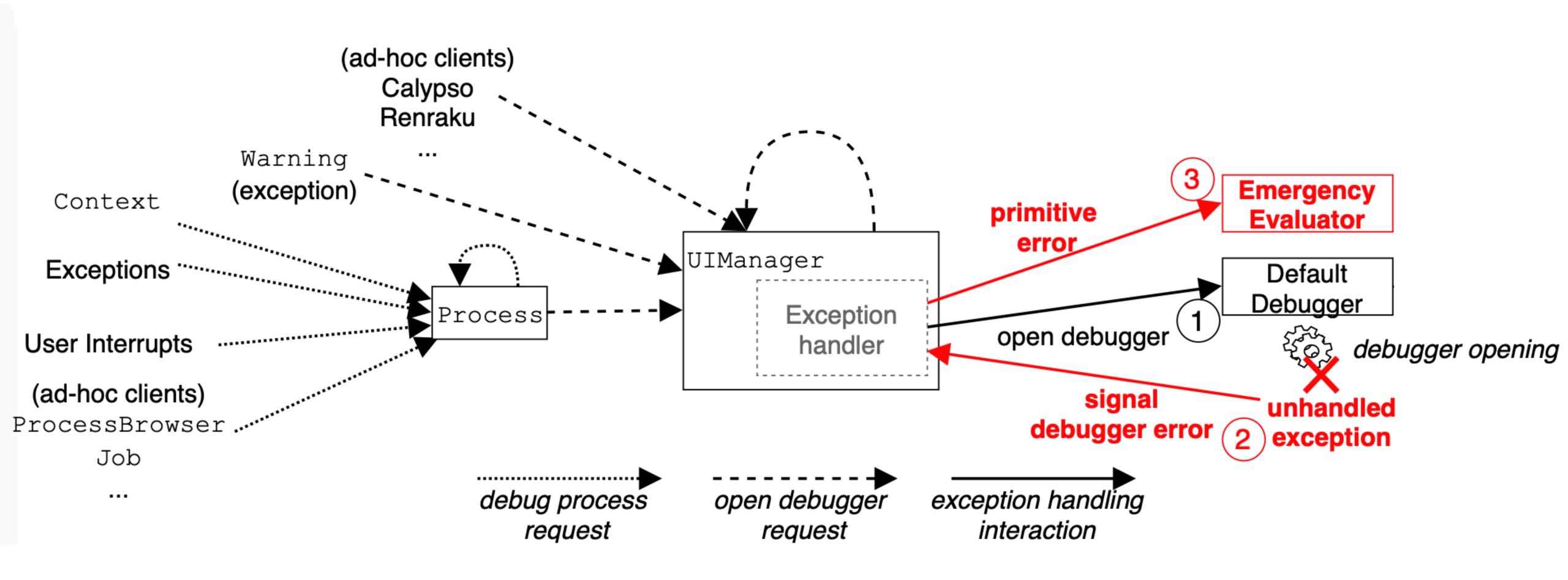
- How to open a debugger: past and current state
- How to insert your own debugger into the system

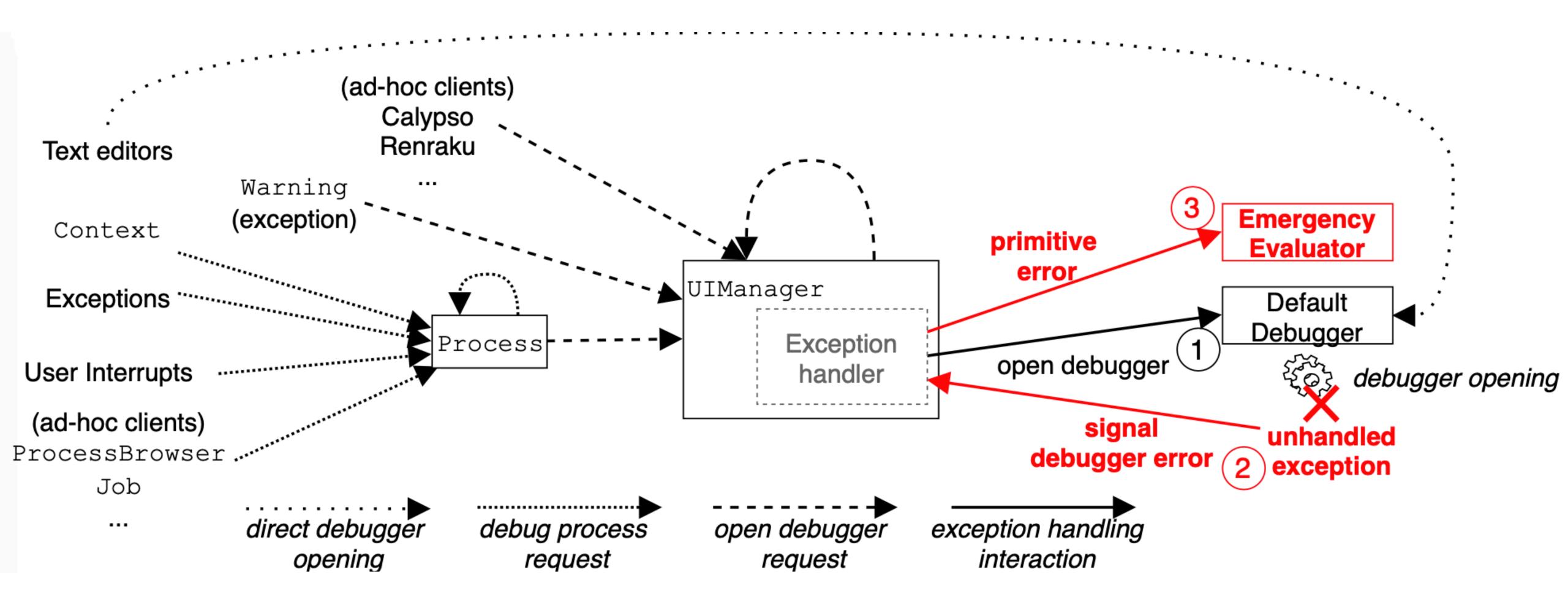
How to open a debugger: past and current state

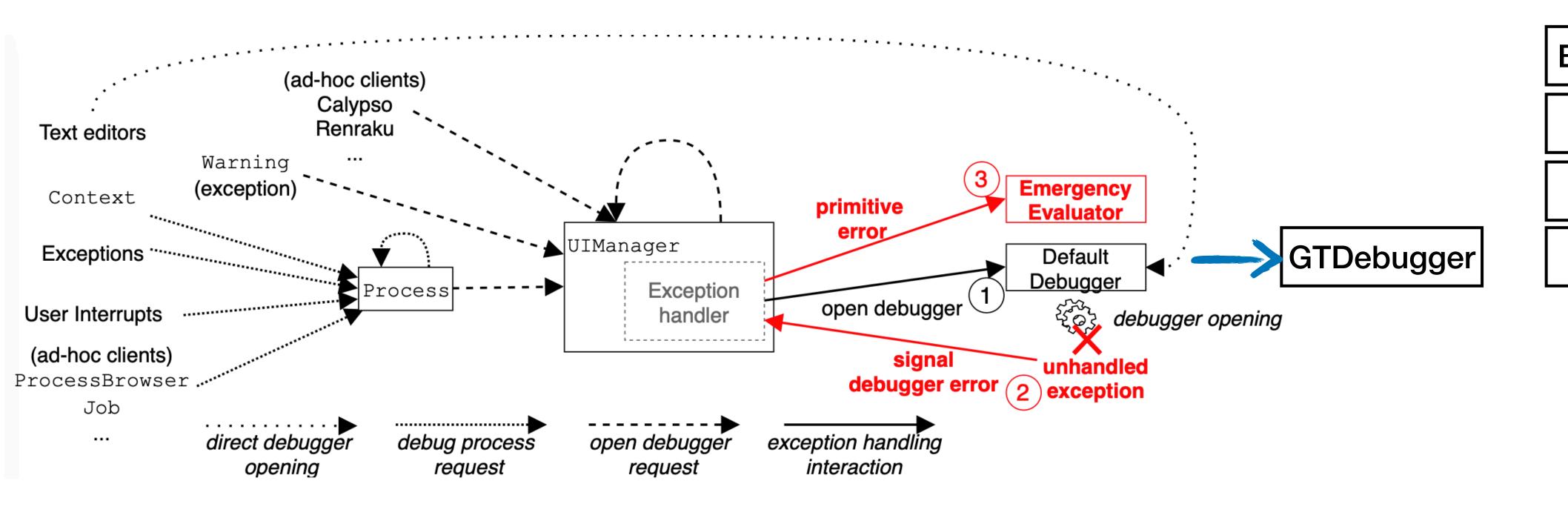
Why is this interesting to know how debuggers are opened by the system?









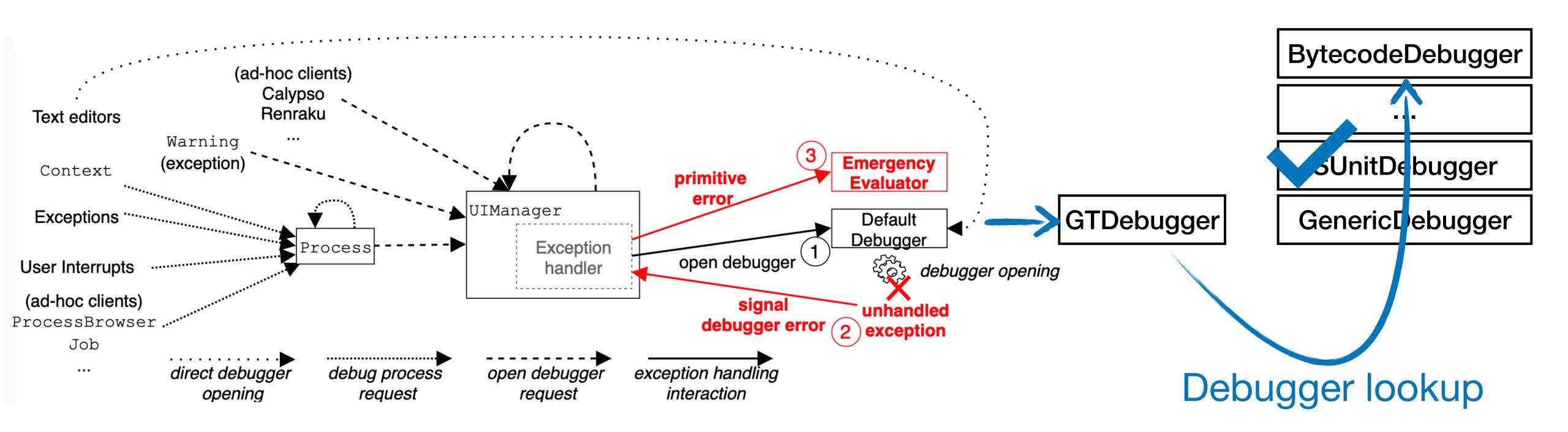


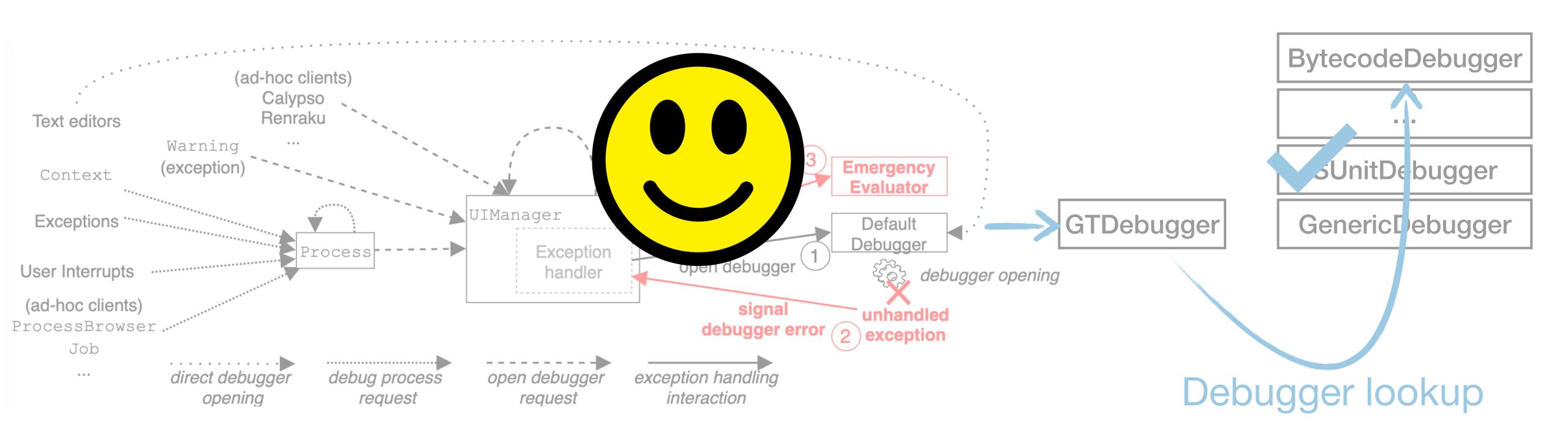
BytecodeDebugger

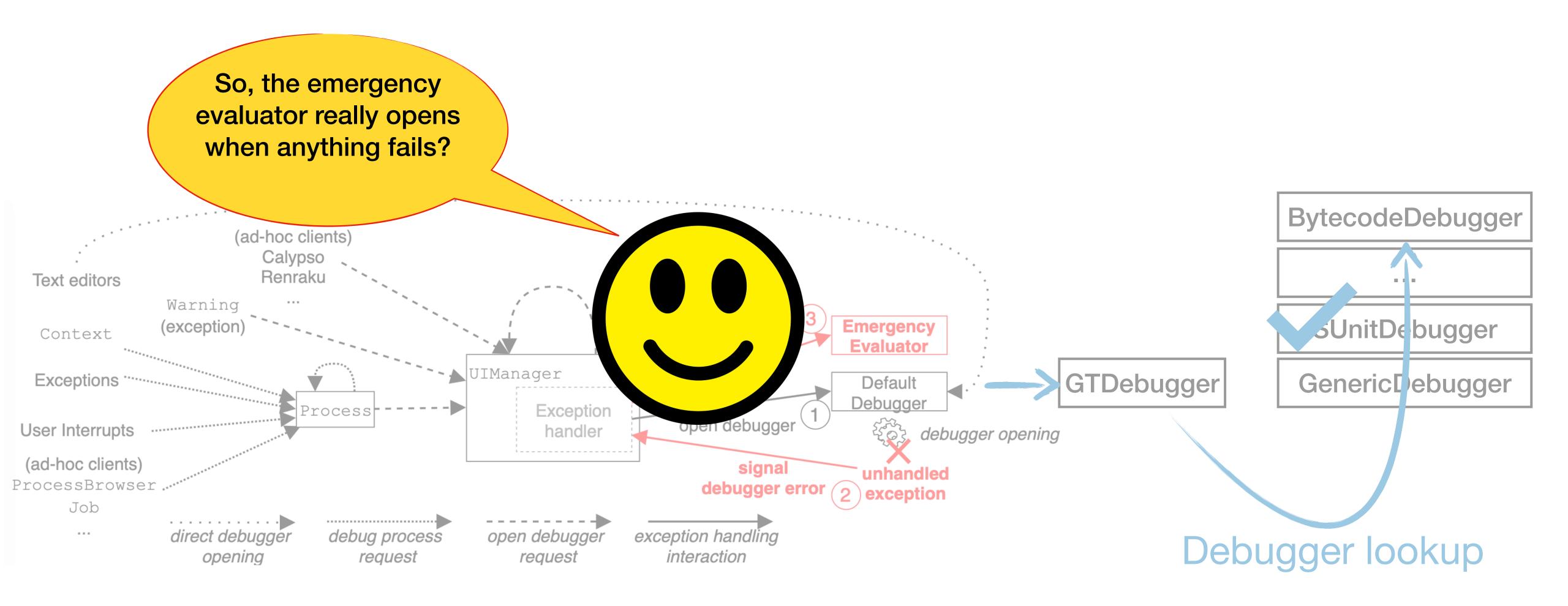
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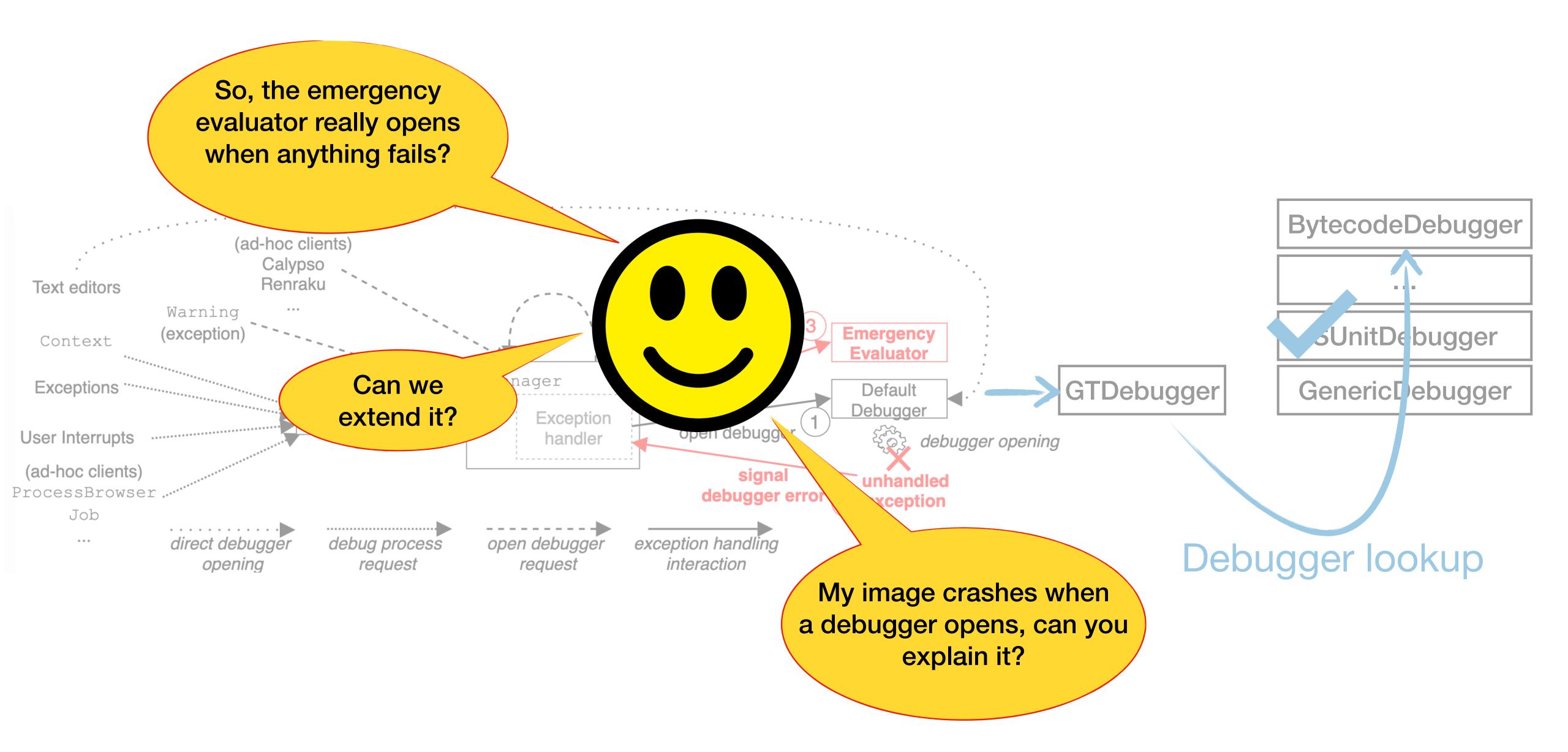
SUnitDebugger

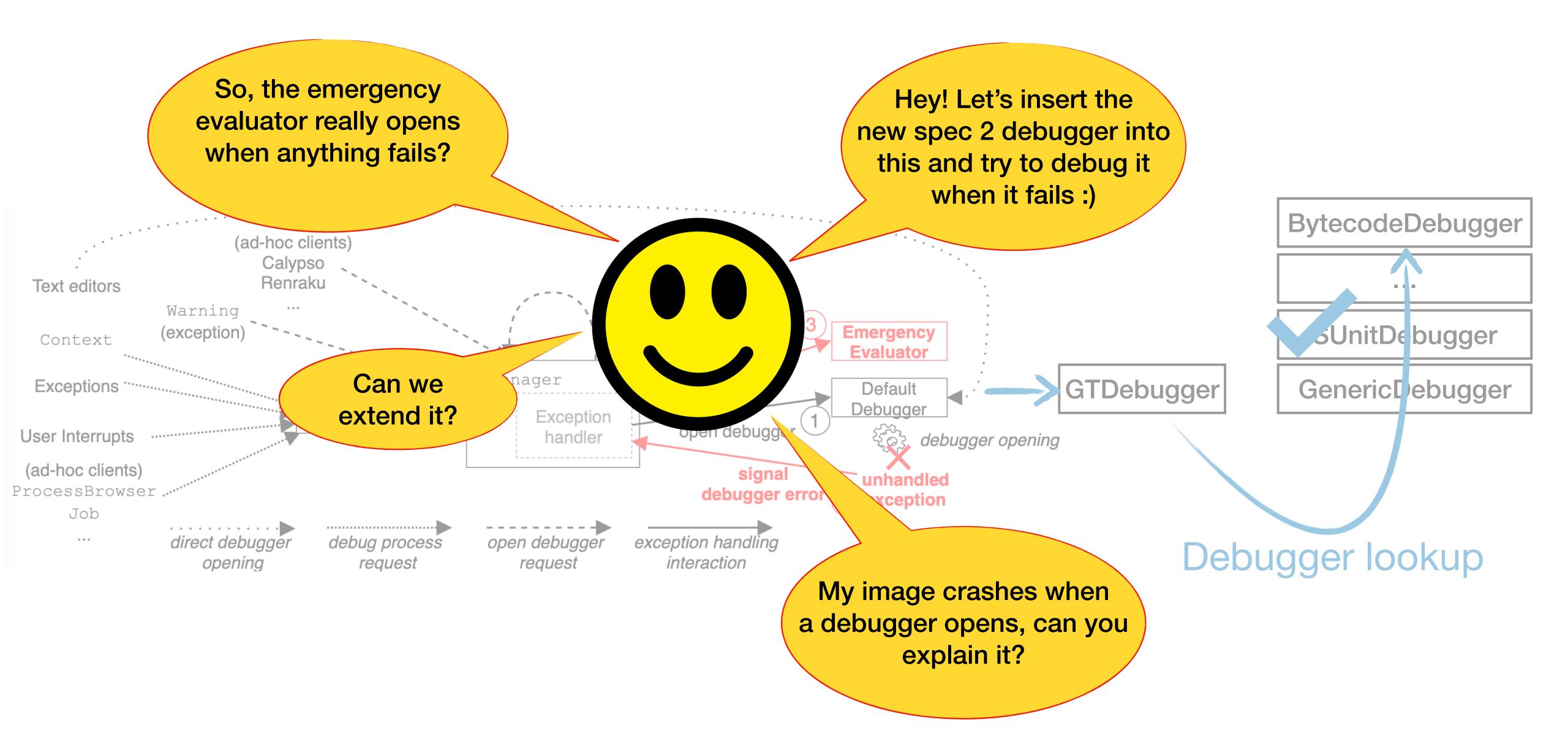
GenericDebugger







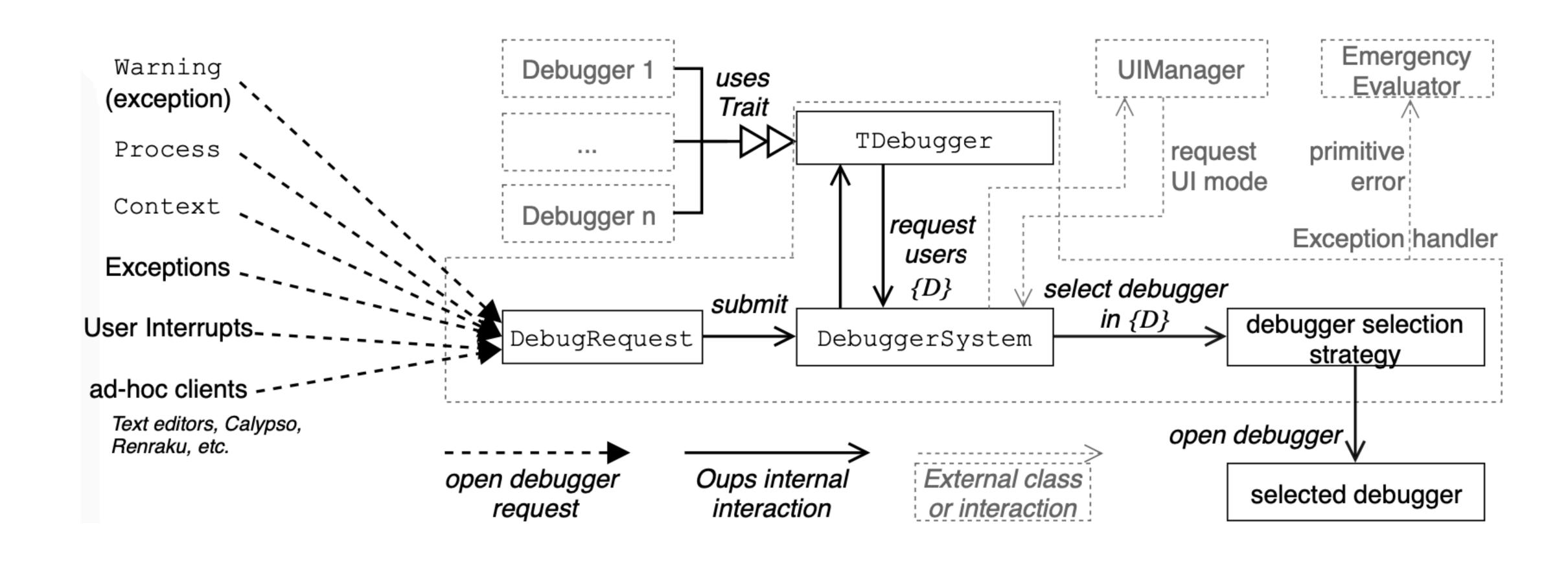




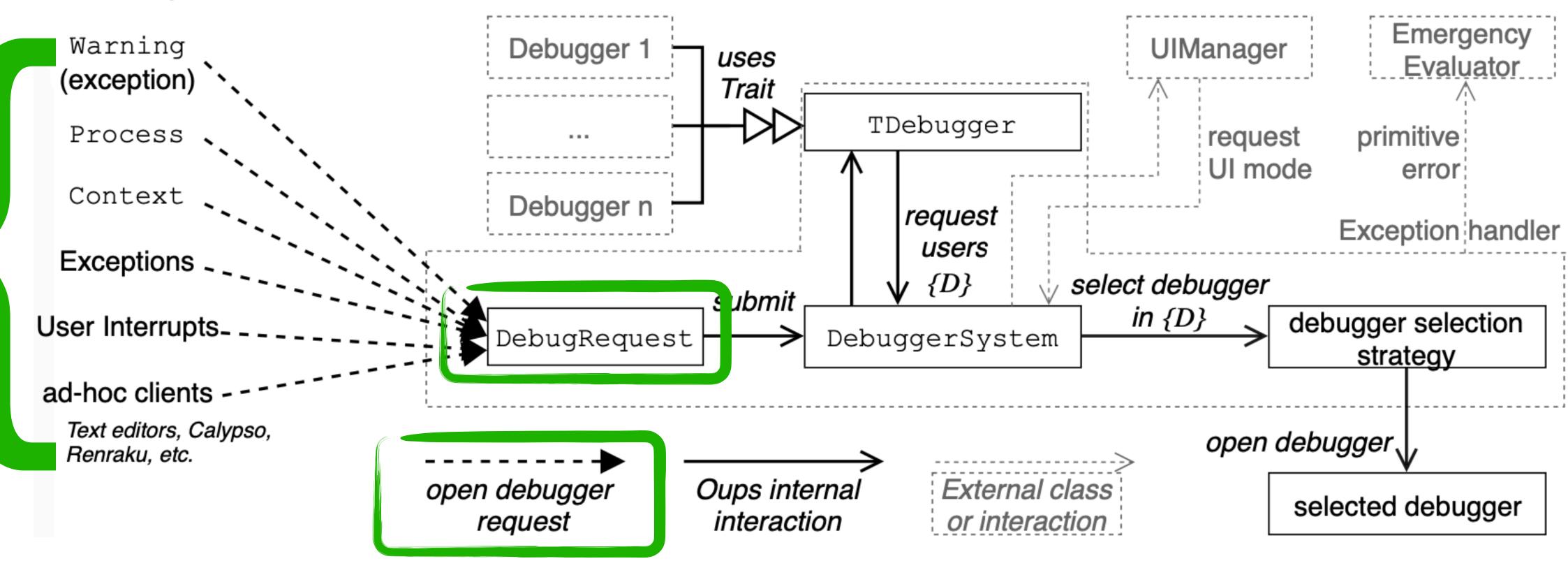
BUT IT WORKS!

BUT IT WORKS!

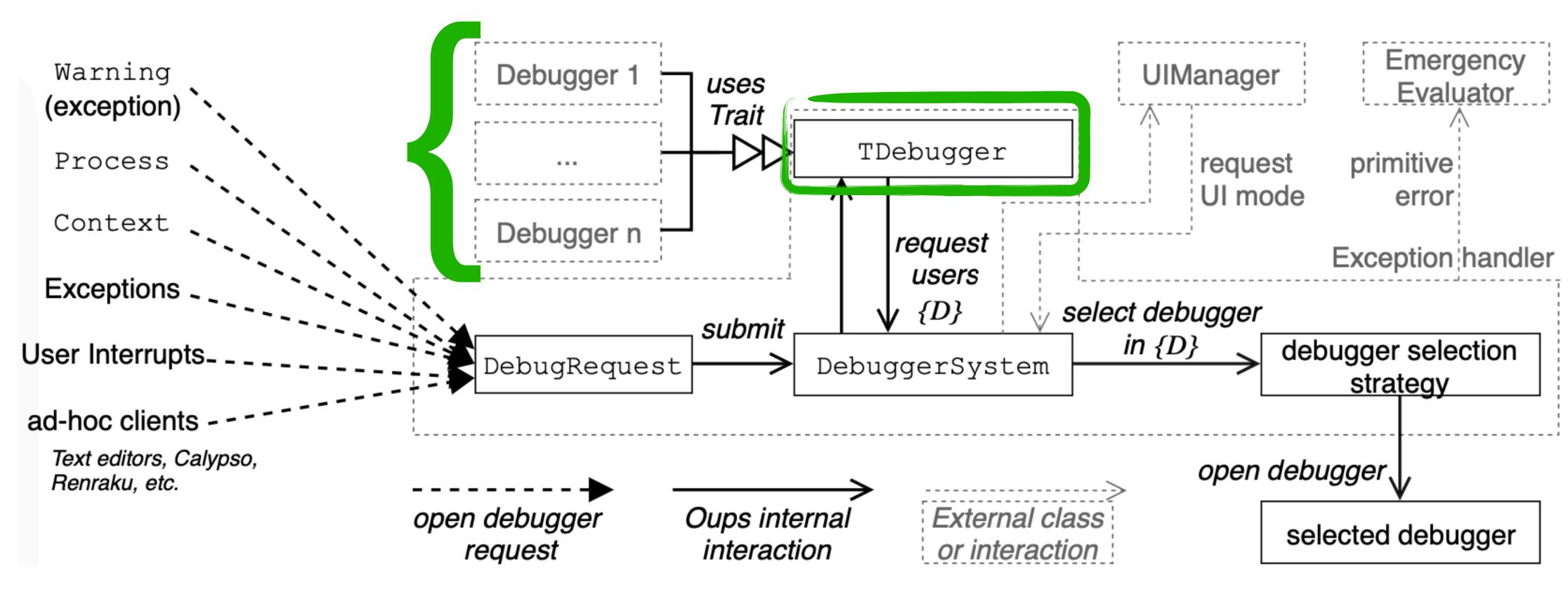


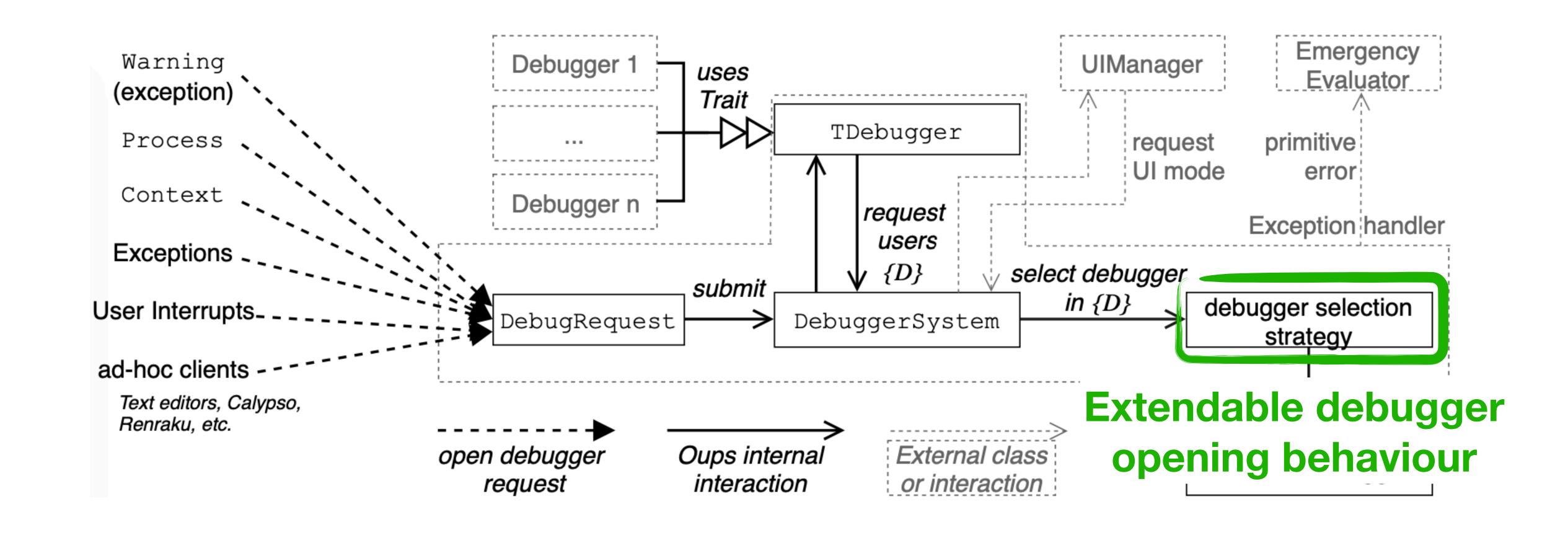


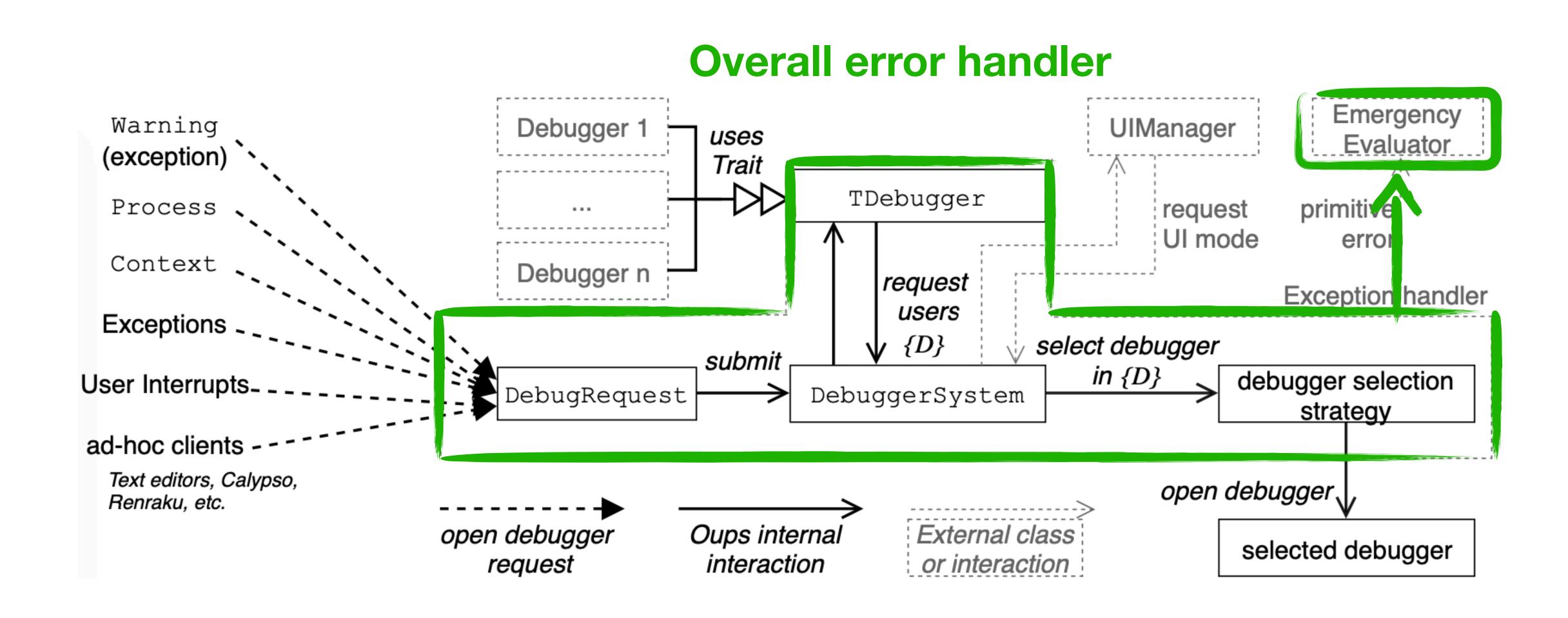
Single entry point



Uniform debugger API

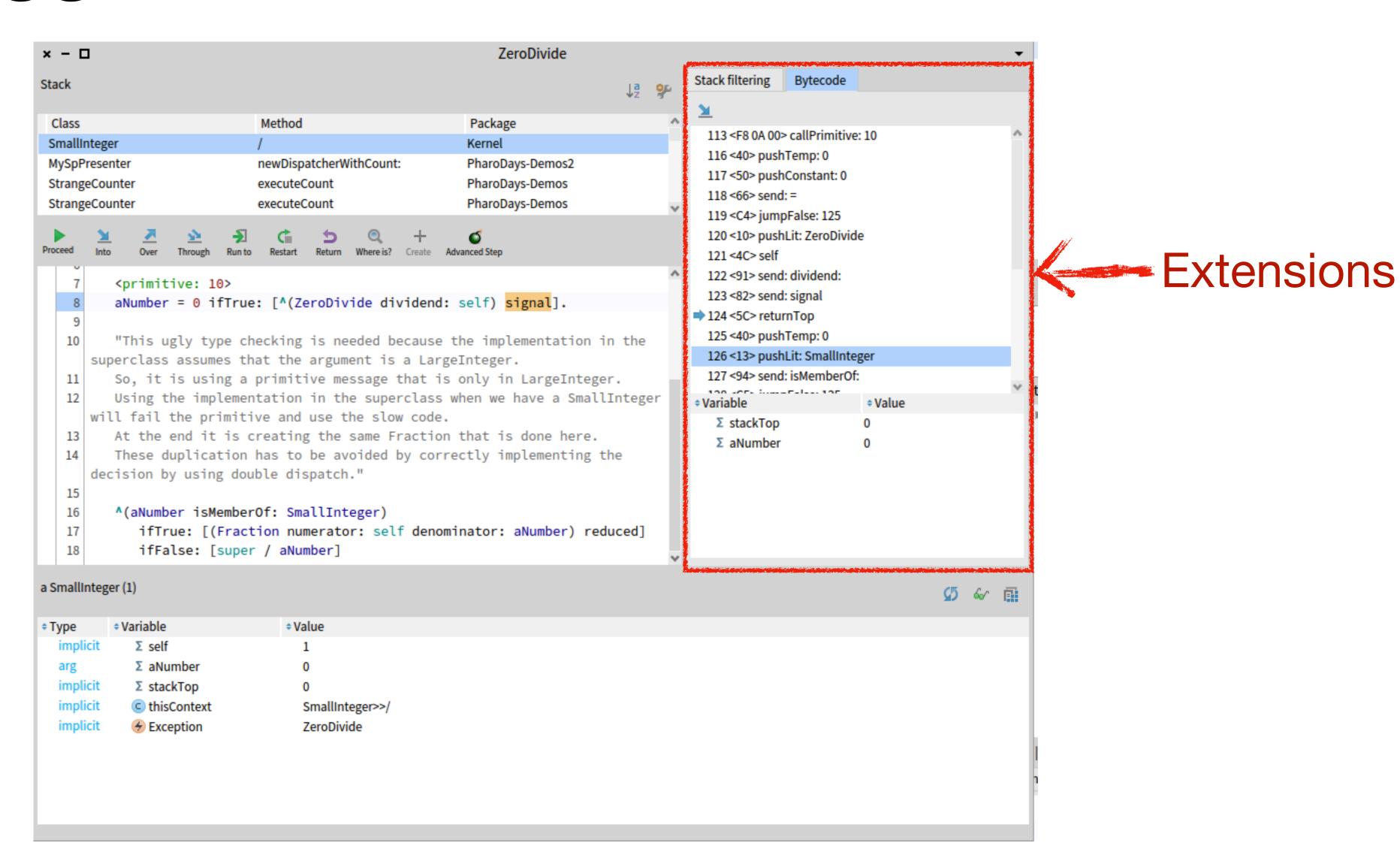




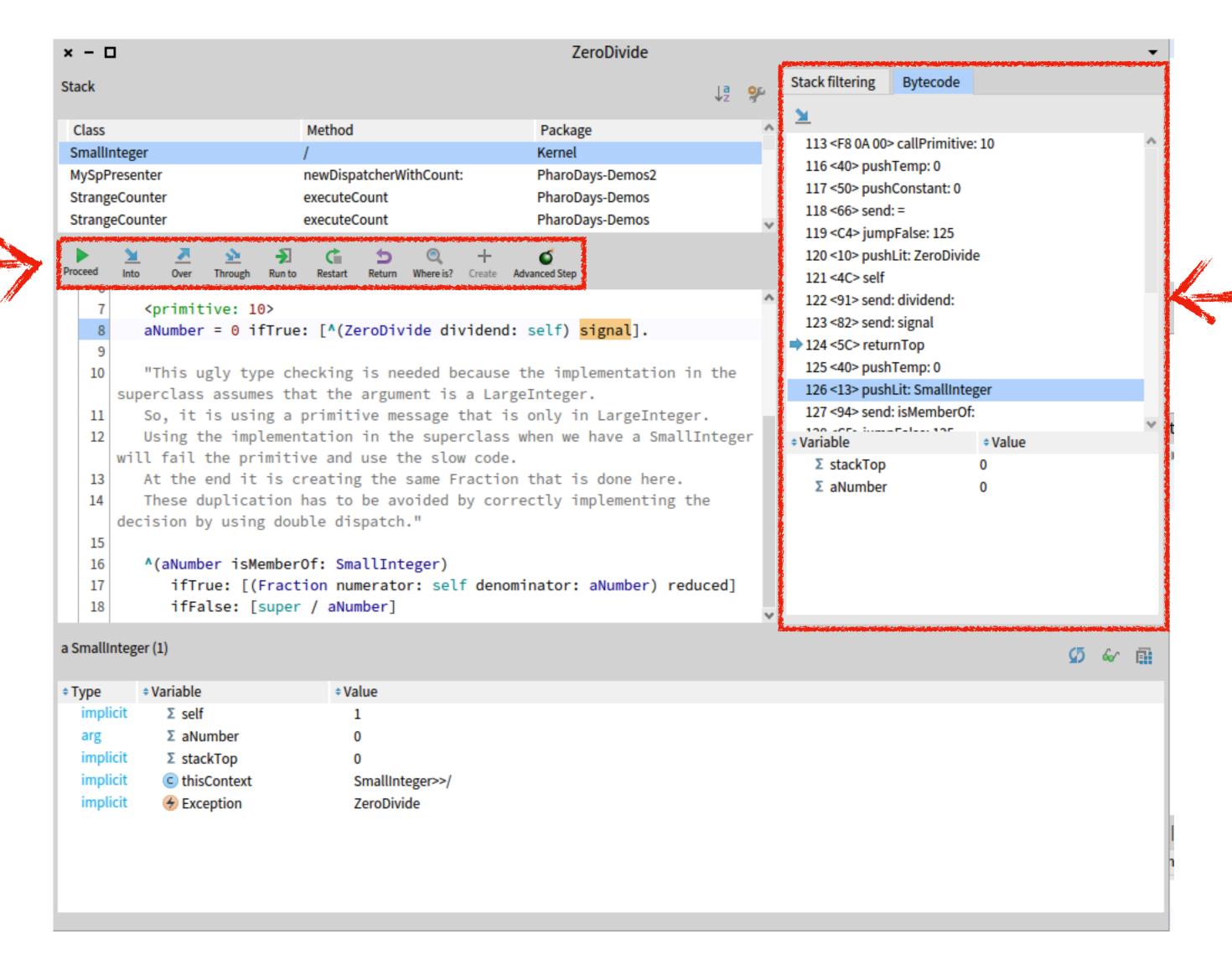


How can you build add your own debugger to the system?

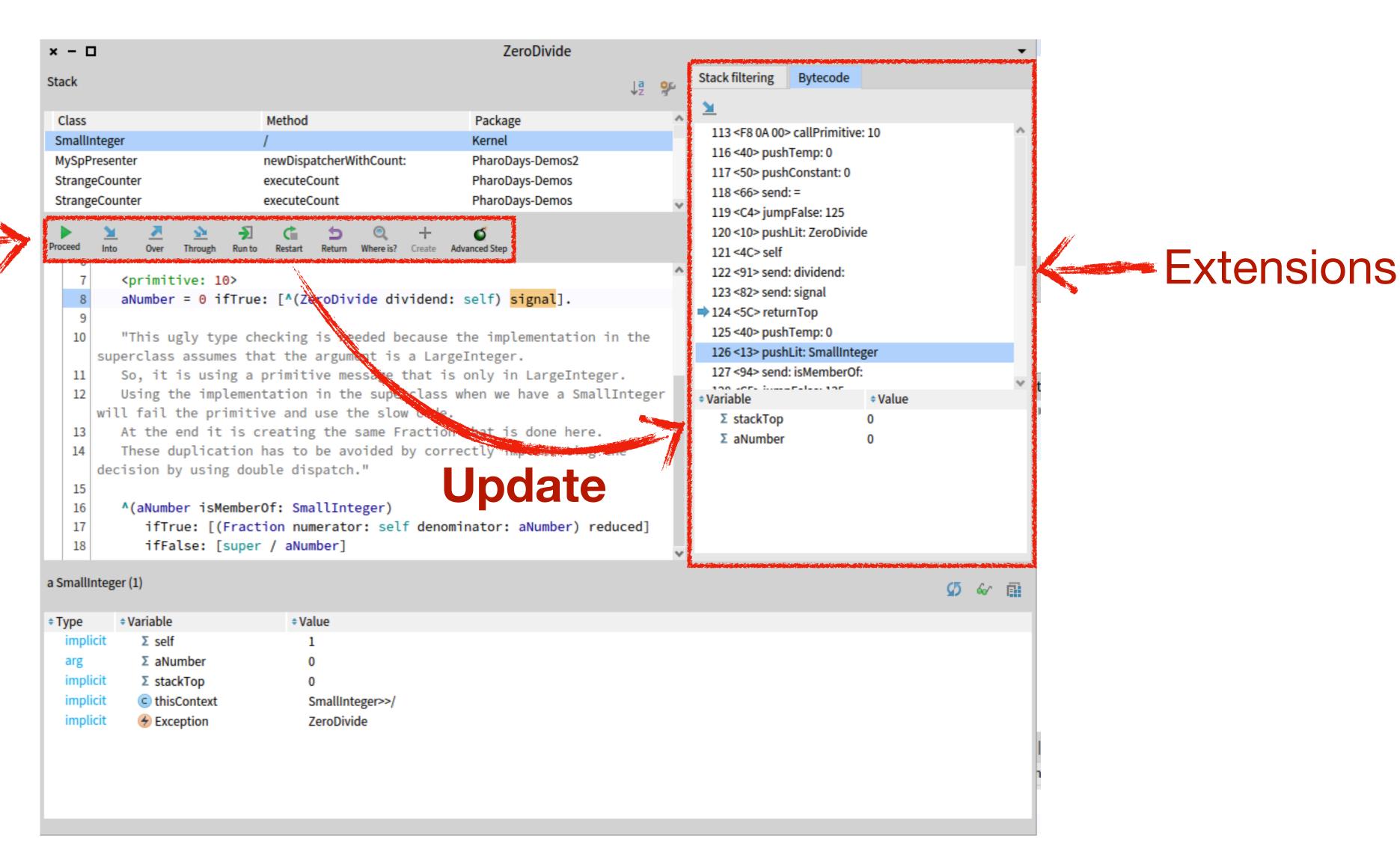
DEMO



Event





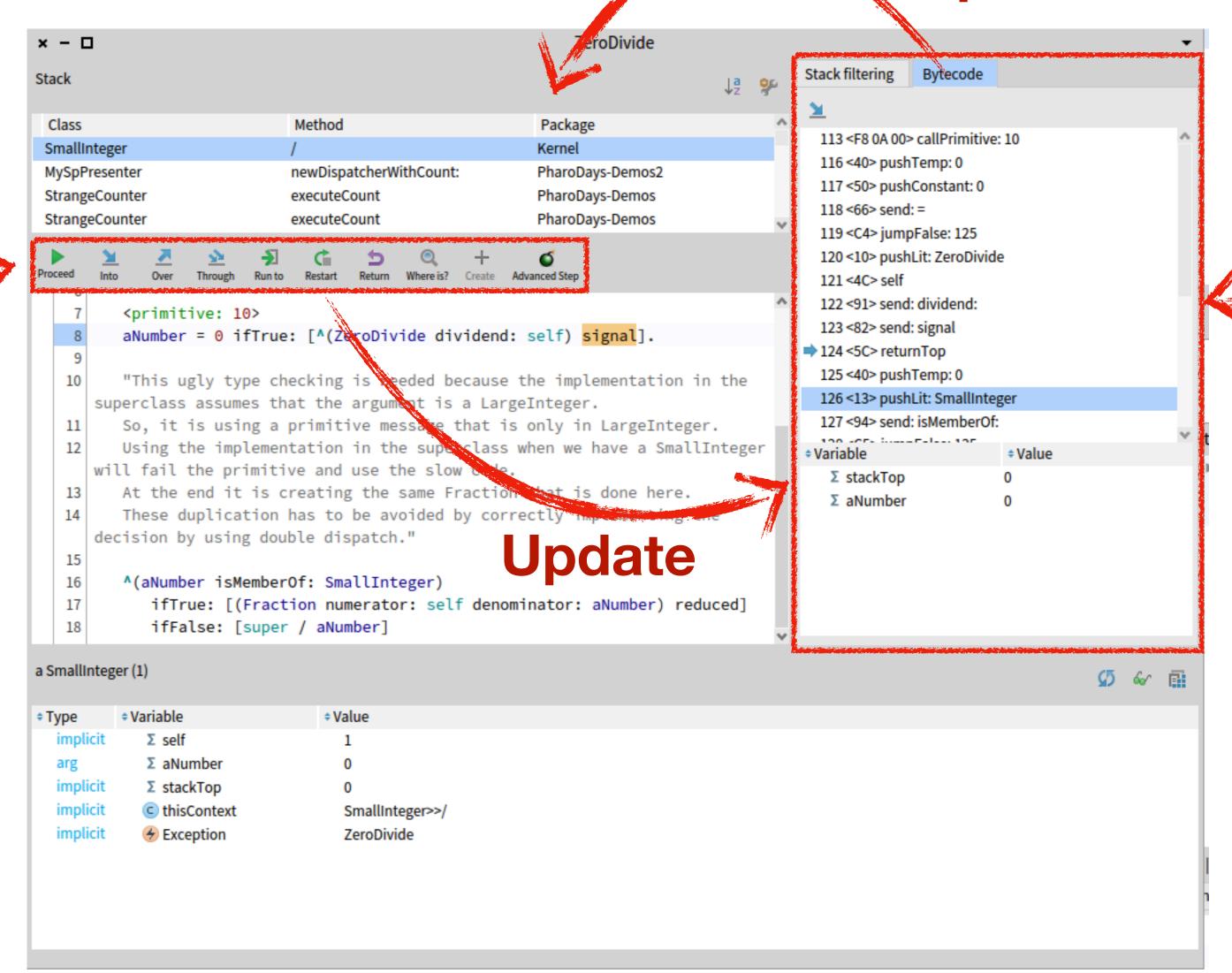


Event

Event

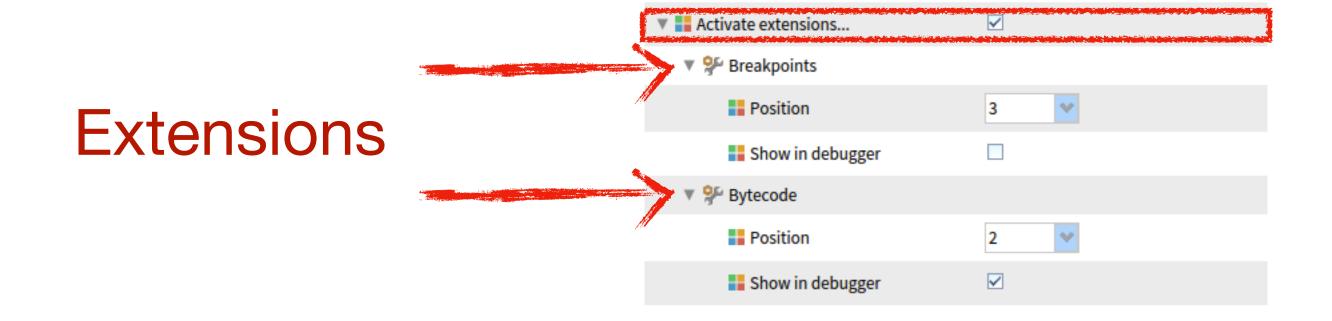
- query

- update



Extensions

- Find and configure the list of extensions in the settings
 - The extensions can be enabled/disabled
 - Each extension can be configured separately



How can you build your own debugger extension?

DEMO

SUMMARY — Debugger extensions

To build your own debugger extension, you need:

- Your tool with its presenter
- Make your presenter use the Trait TStDebuggerExtension
- Implement the methods required by the Trait
- Activate the extension in the settings
- Implement the updatePresenter method to get the debugger event notifications
- Implement the optional requests and updates to apply to the debugger
- Implement optional debugger interaction menus by extending the debugger command tree