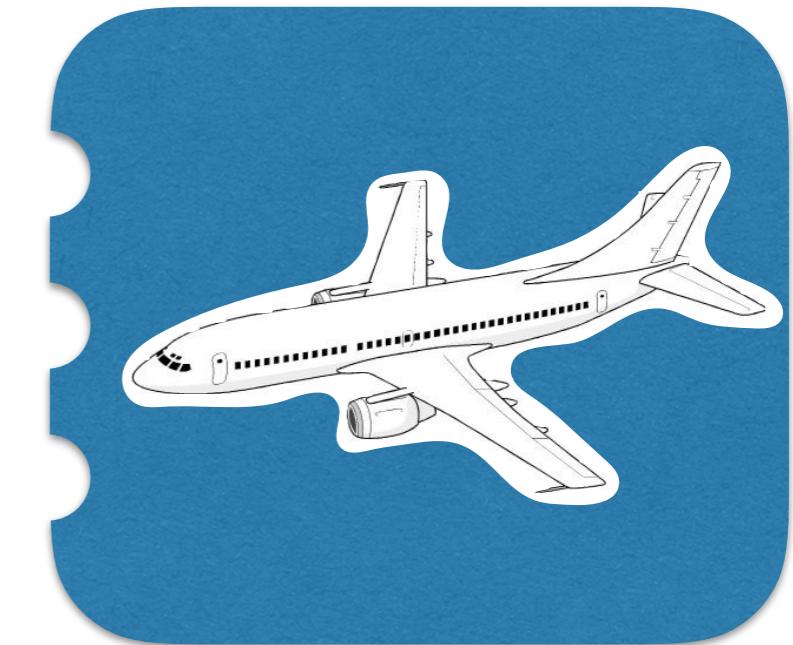




Channeling innovation from
research to design



Research codes



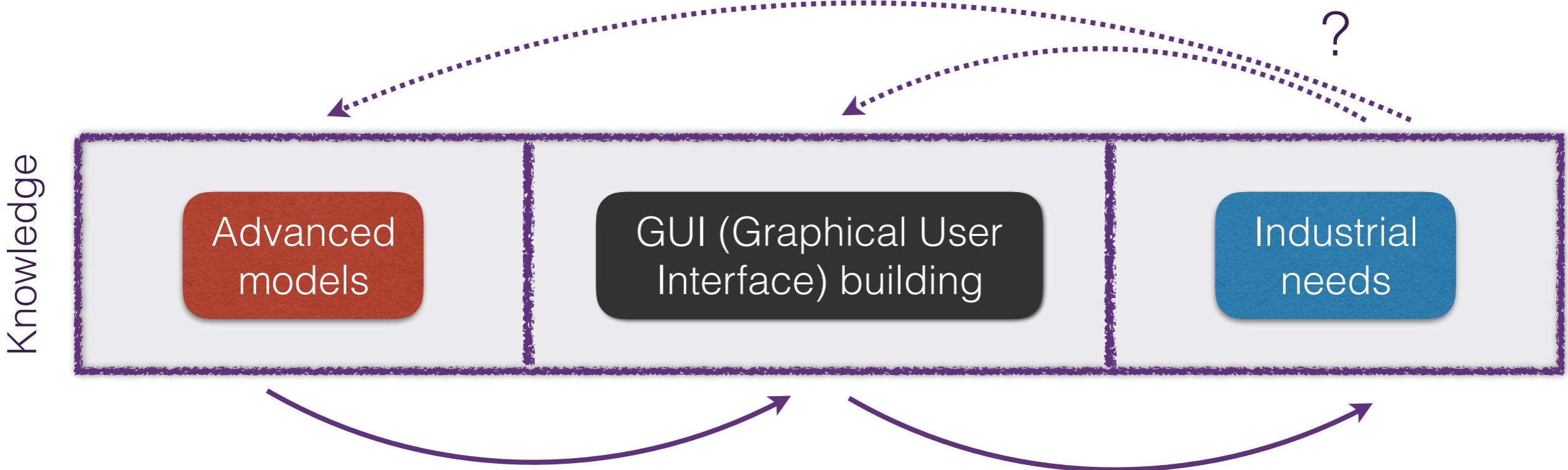
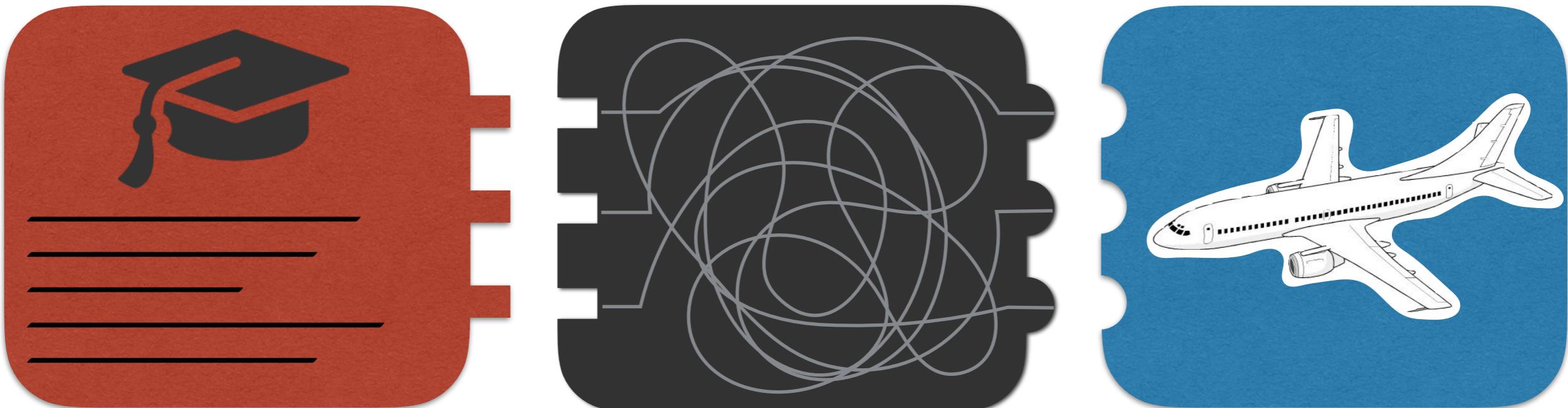
Industry

Knowledge

Advanced
models

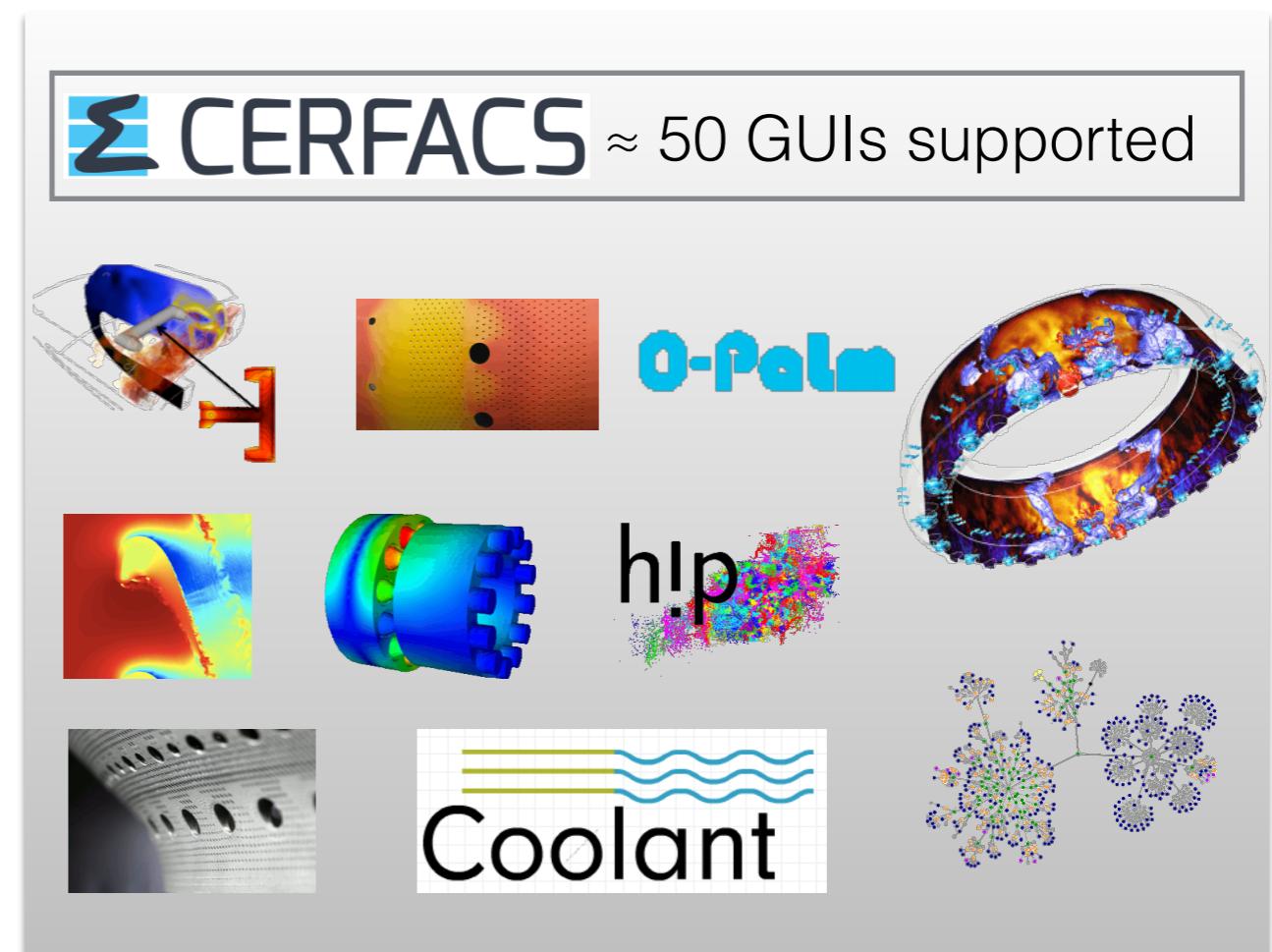
GUI (Graphical User
Interface) building

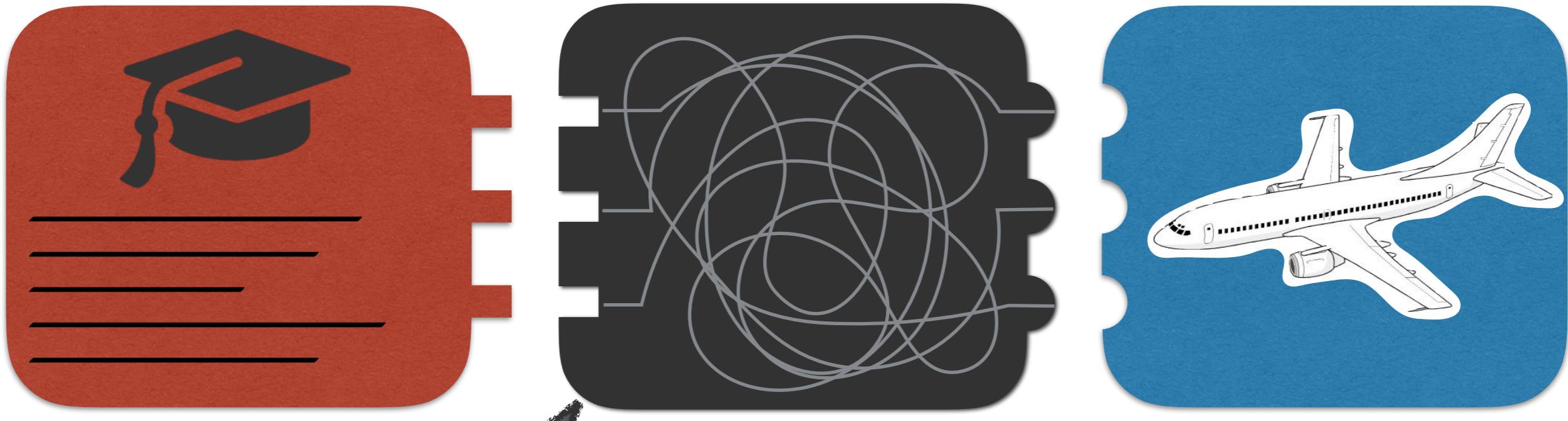
Industrial
needs





⋮





Custom interface :
Qt wxWidgets HTML5
Tkinter Java ...

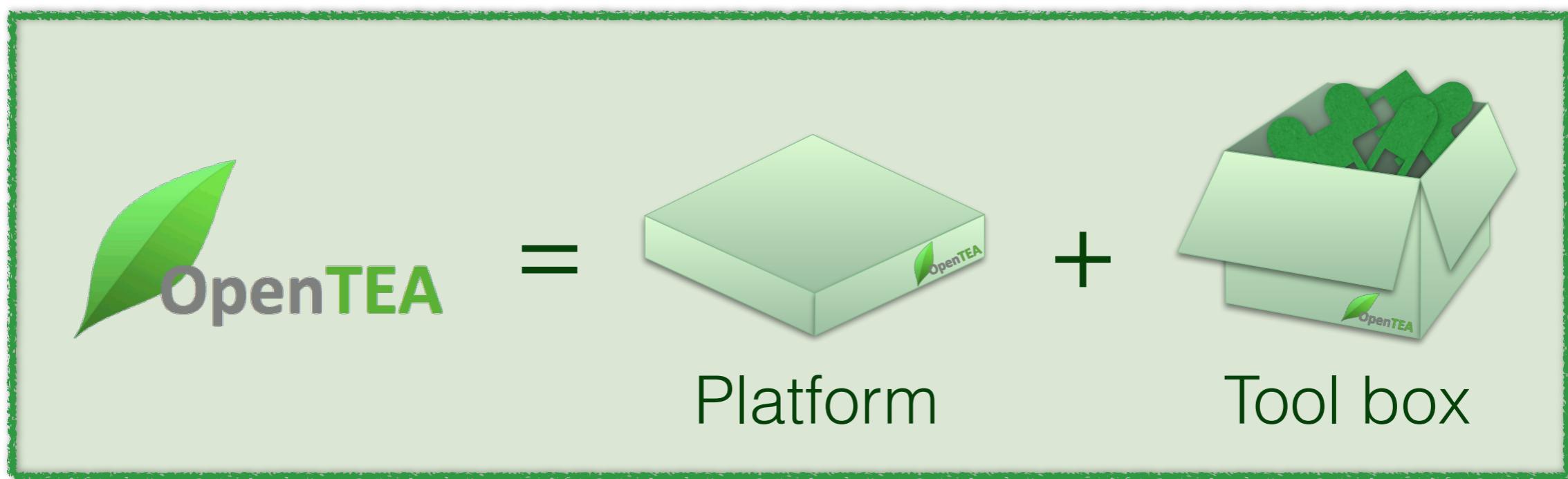
manage
clusters

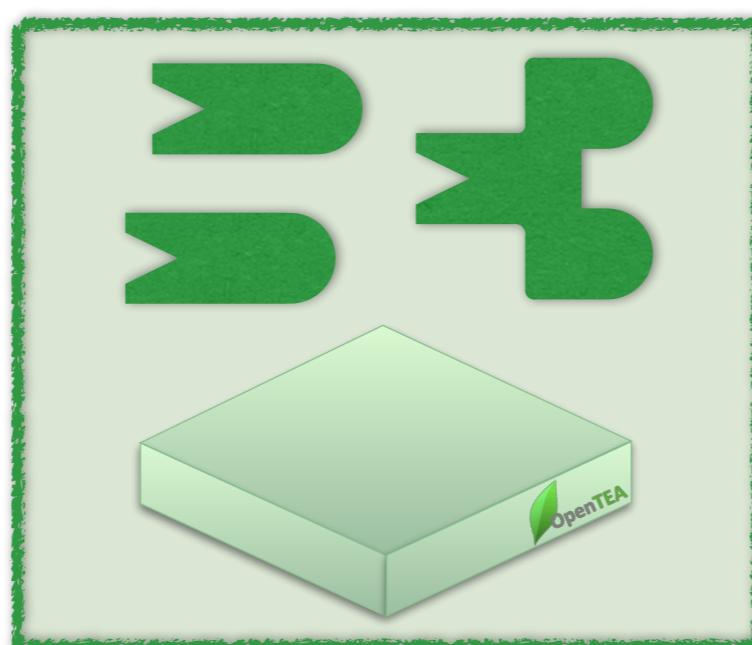
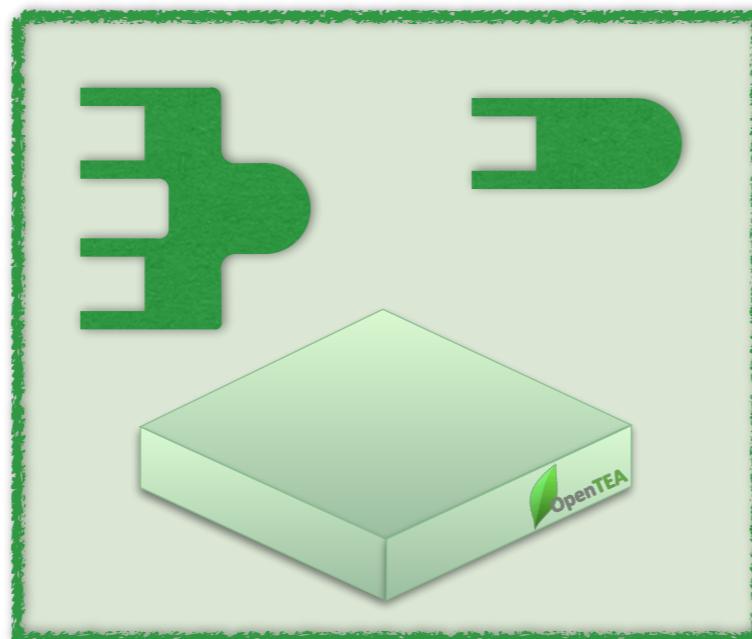
manage
memory

Need: focus on **tools/codes**
(not appearance, wiring...)

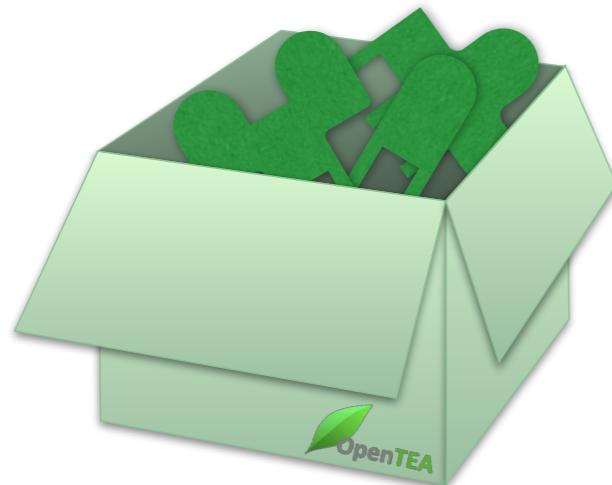
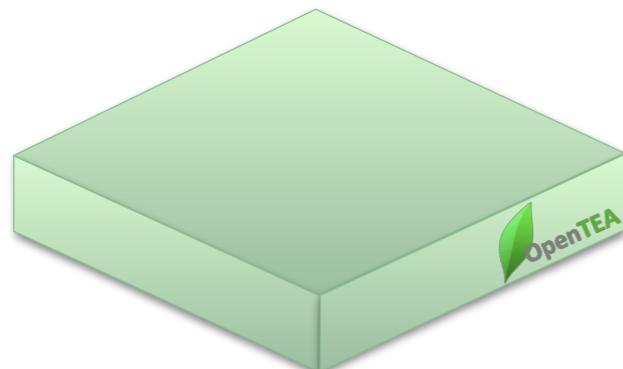
—
But adding an intermediary is
inefficient

—
**A more « hands on » strategy is
needed**





⋮

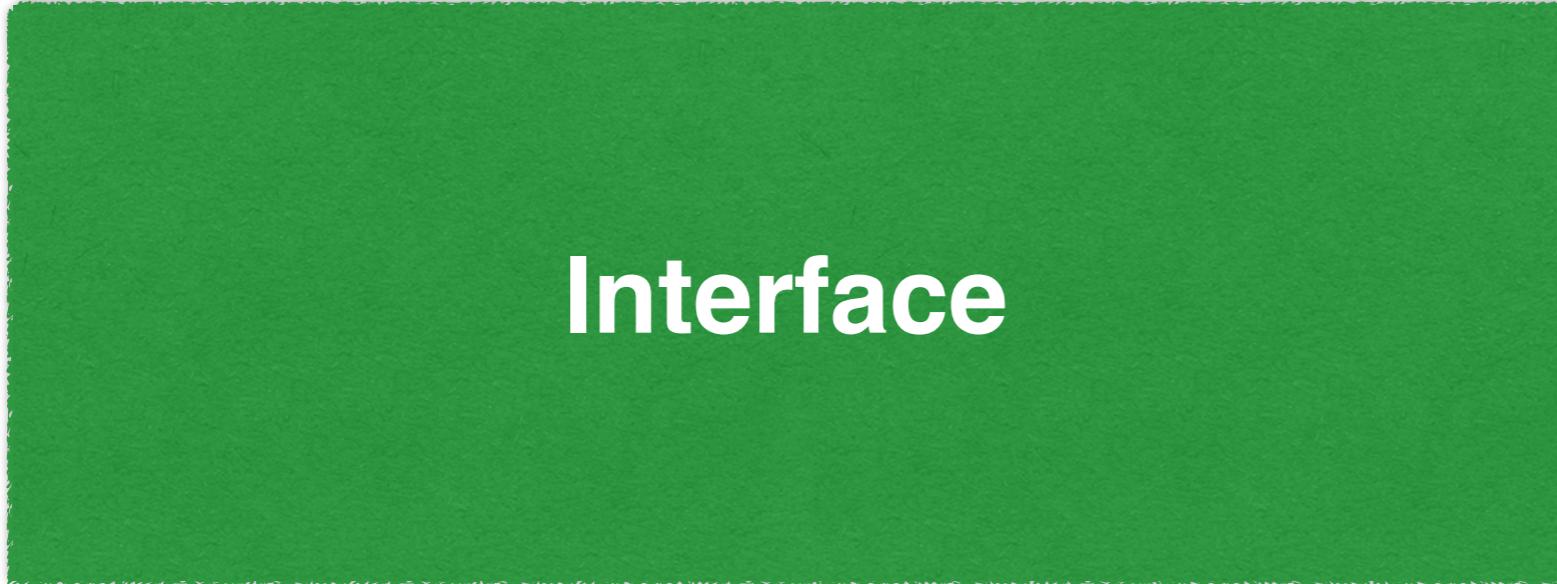


Open source: free, extensible, transparent GUI framework

A common platform sets a framework. Harmonized code is easier to write, read and maintain

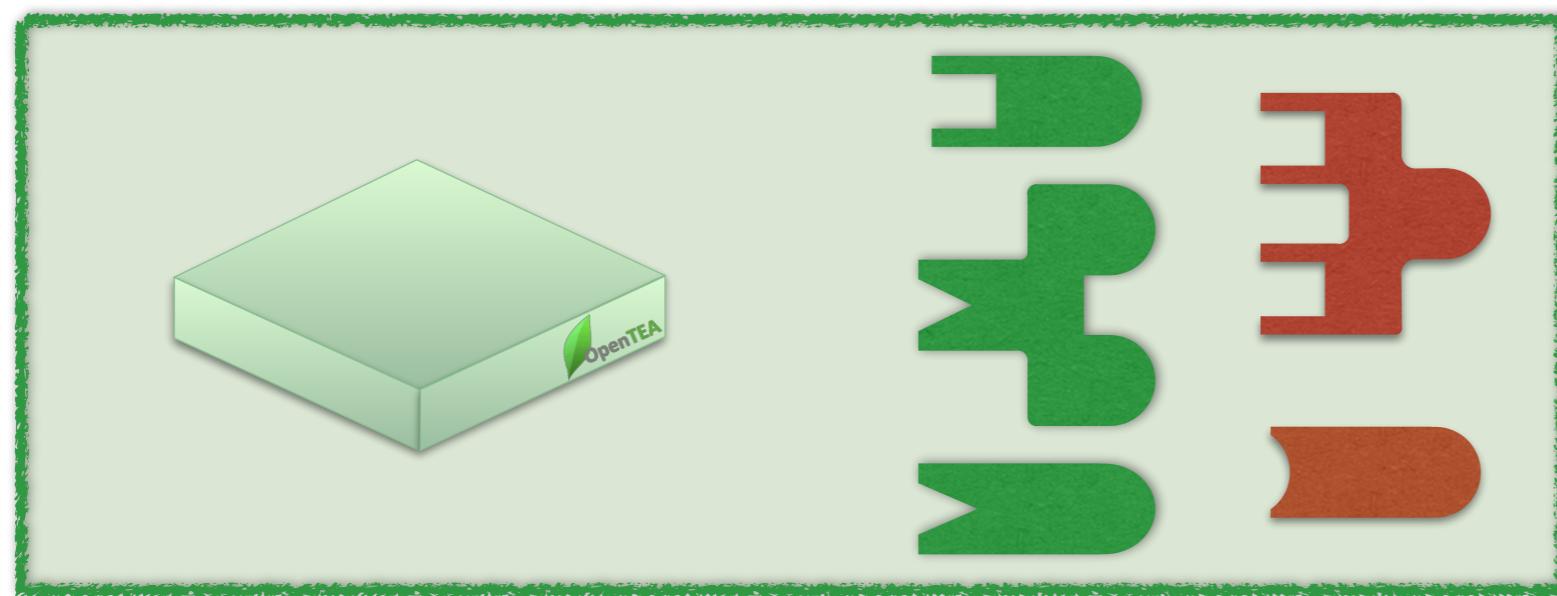
Many tools can be reused or adapted between applications. The toolbox streamlines most common tasks

Targets many architectures: **low dependency count**. Runs everywhere!



Interface





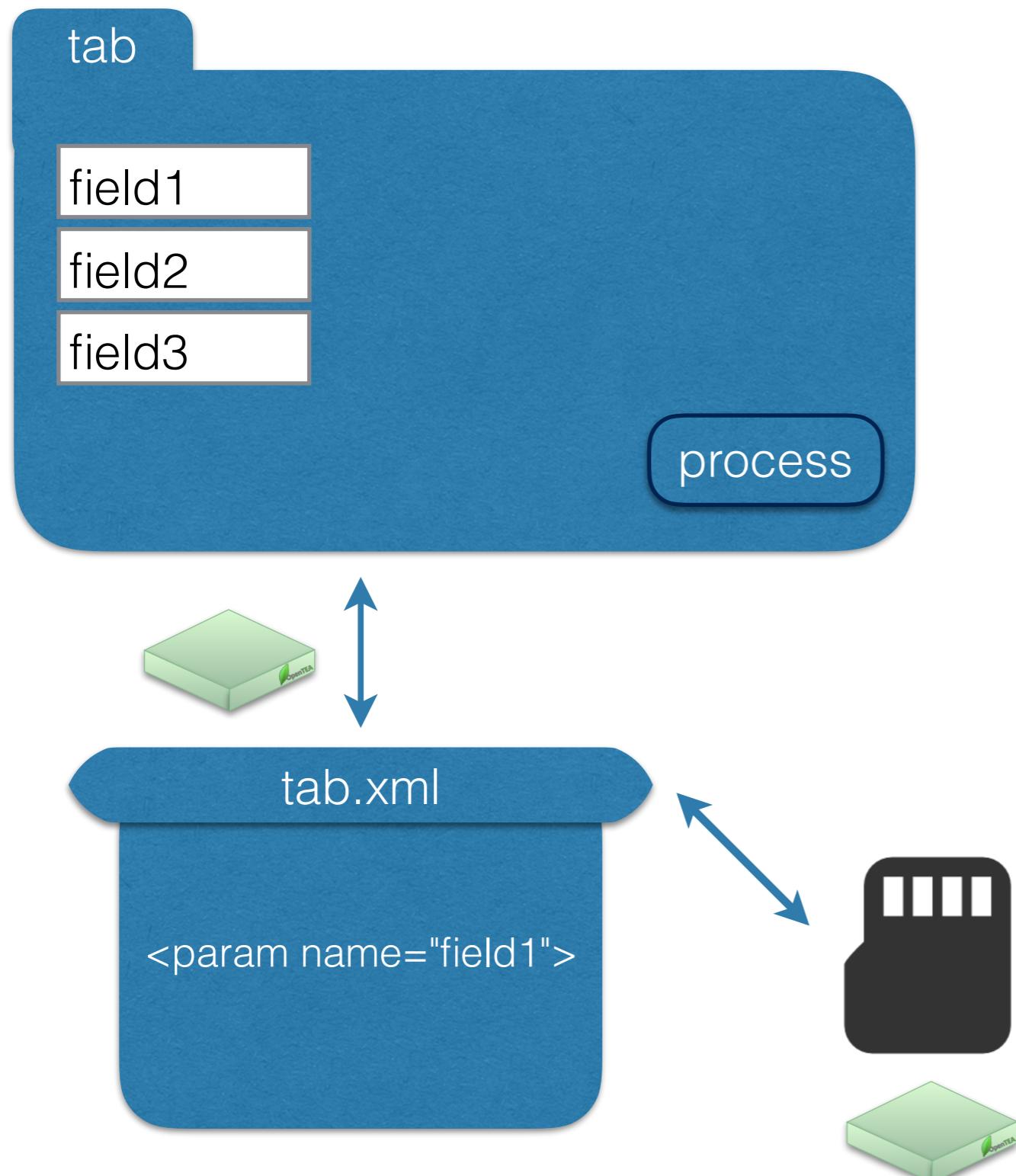
Common platform
easy recognition

Harmonized
assembly of tools

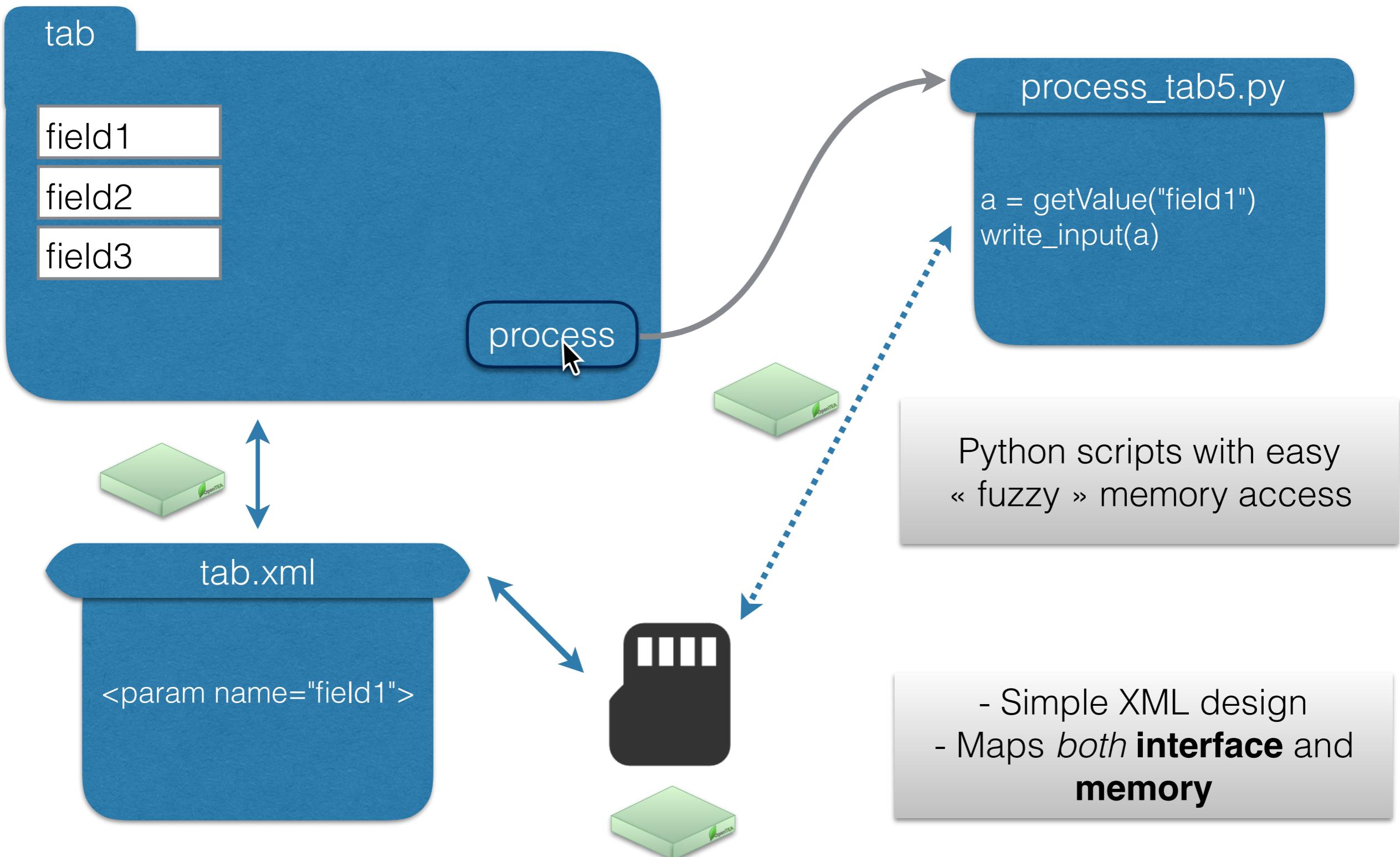
Debugging, replicating, extending...
is expected and facilitated

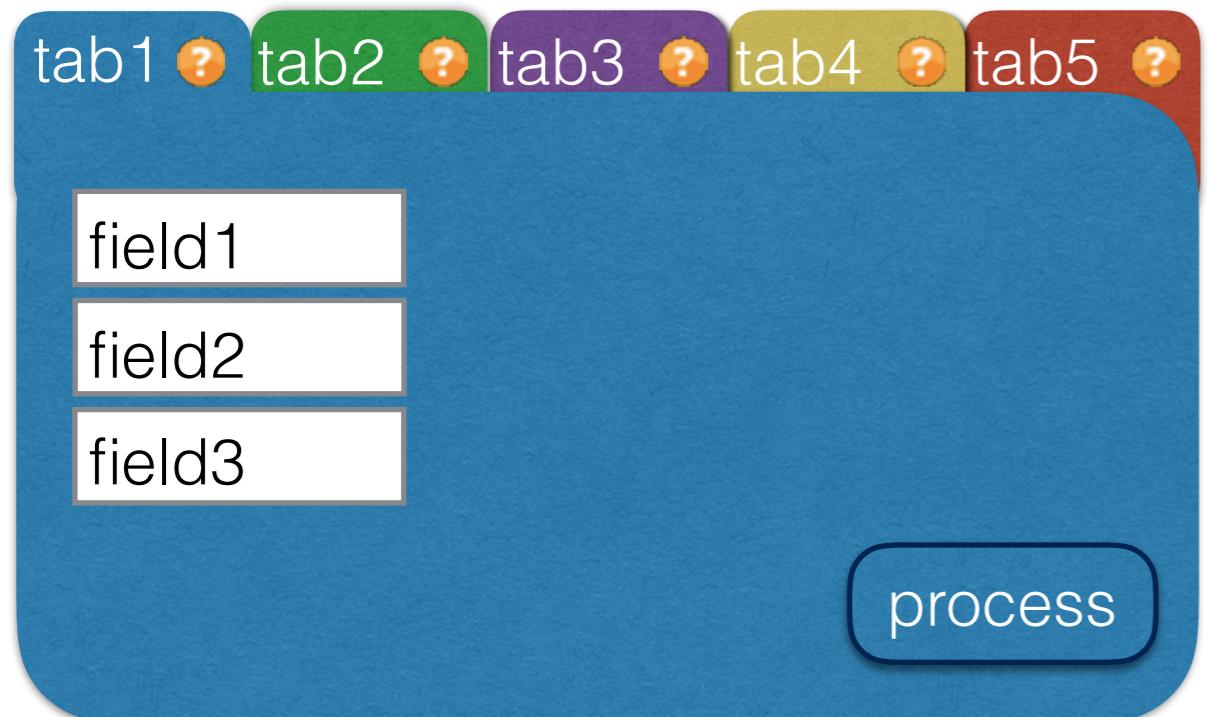


Diving deeper: How interfaces
are designed in OpenTEA



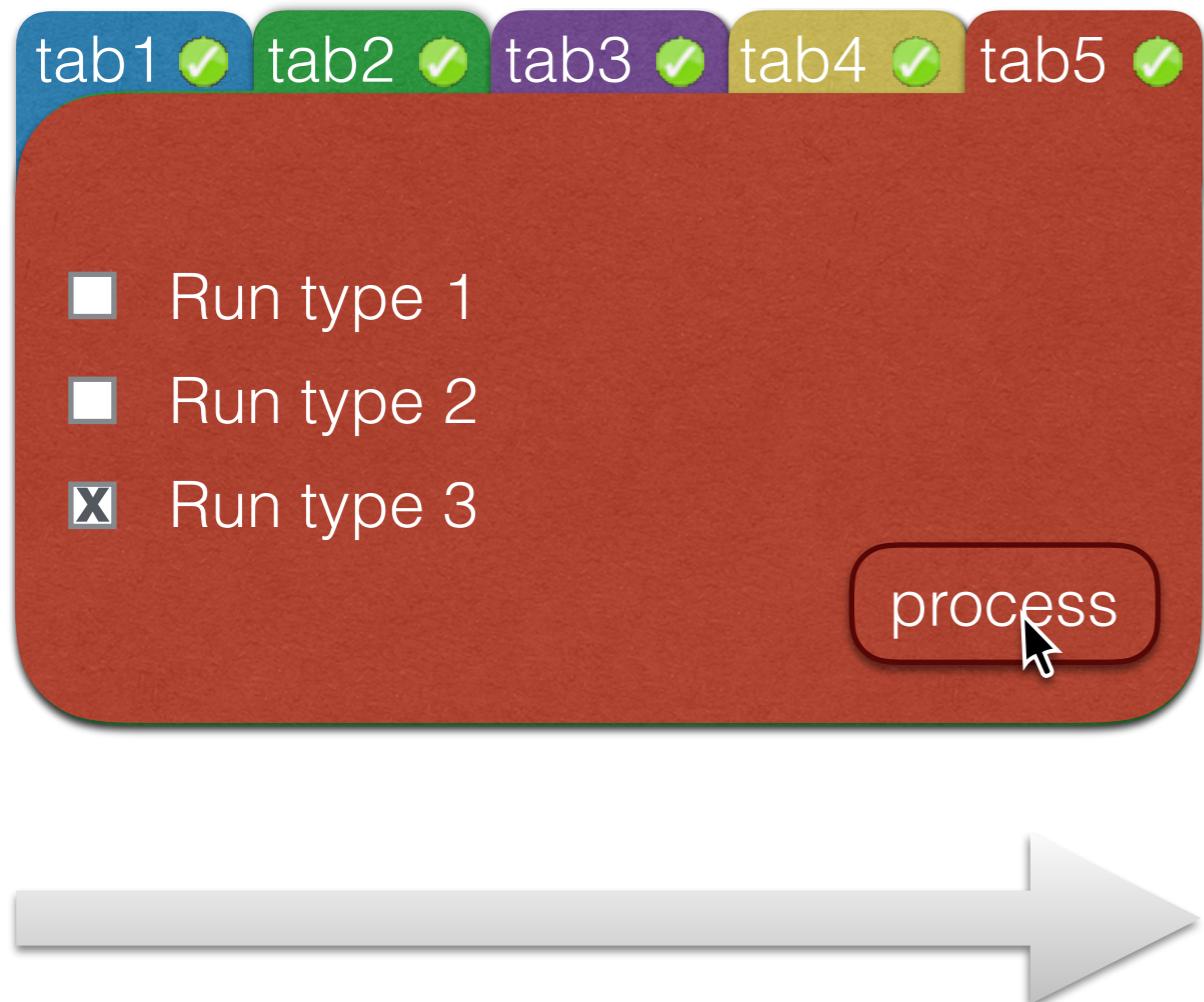
- Simple XML design
- Maps *both* **interface** and **memory**





« Linear » progression :

- all tabs must be validated
- every app behaves this way



- Run type 1
- Run type 2
- Run type 3

process

« Linear » progression :

- all tabs must be validated
- every app behaves this way

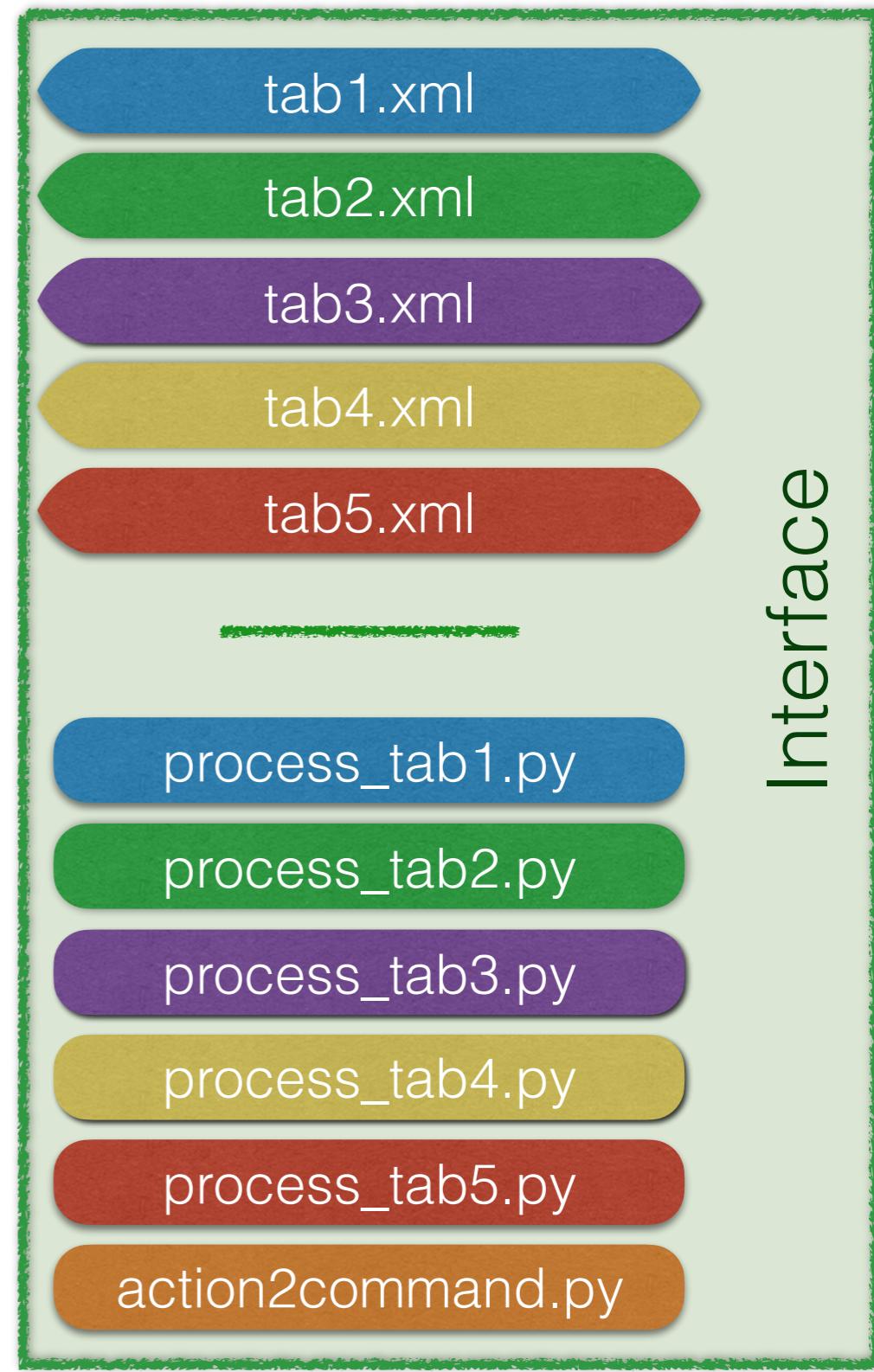
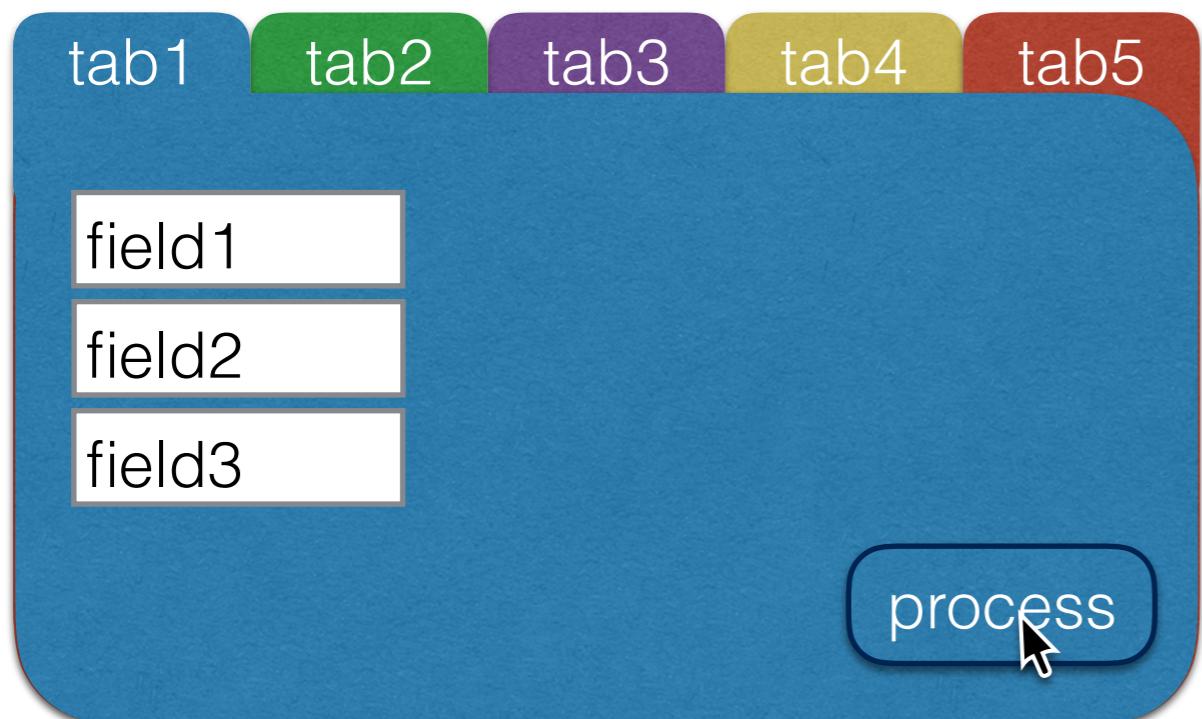
This is a ***strong*** choice:

Pros:

- harmonized interfaces
- user feels at home and guided, even in a new app
- current users are used to this behavior

Cons:

- dialogs can feel repetitive
- design process has to fit in this framework



An interface is:

- a list of xml files defining the tabs + the memory
- 1 python script per tab
- an action -> cmd dictionary

