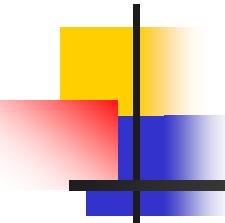


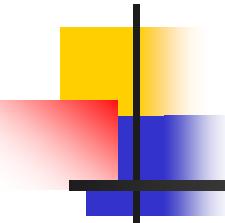
ROOT / Reflex '07+

Stefan Roiser



Reflex

- Many new developments for CINT move during the last year
 - 5.13.x consolidation of this development
- Minor improvements, optimizations missing e.g.
 - Complete / faster name lookup
 - Store source file information
- ROOT I/O
 - Read / write Reflex into .root files, eg. for BOOT



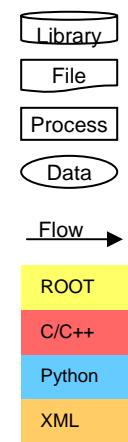
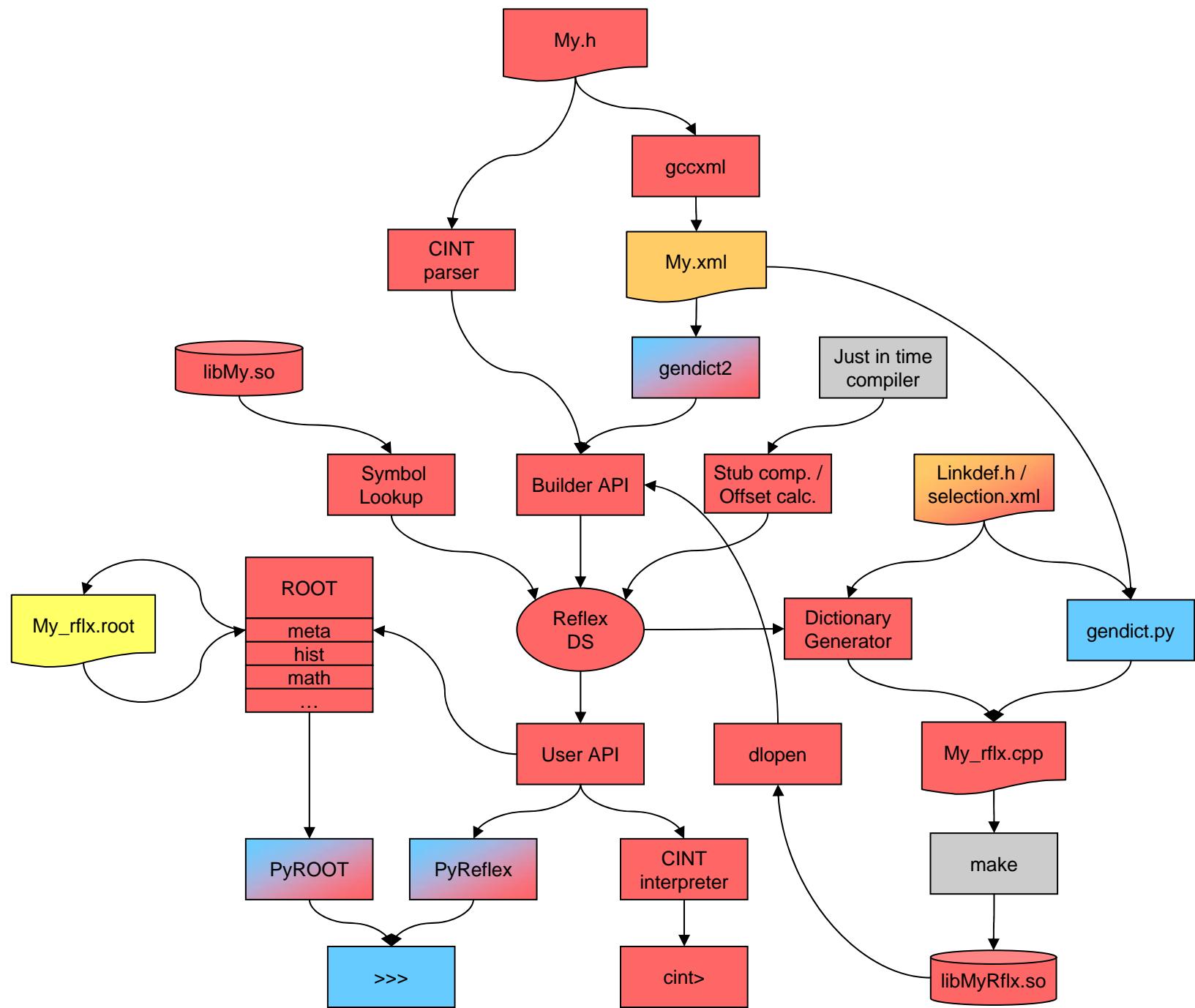
Reflex

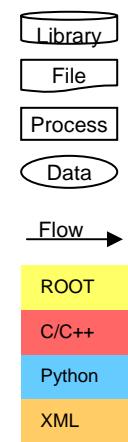
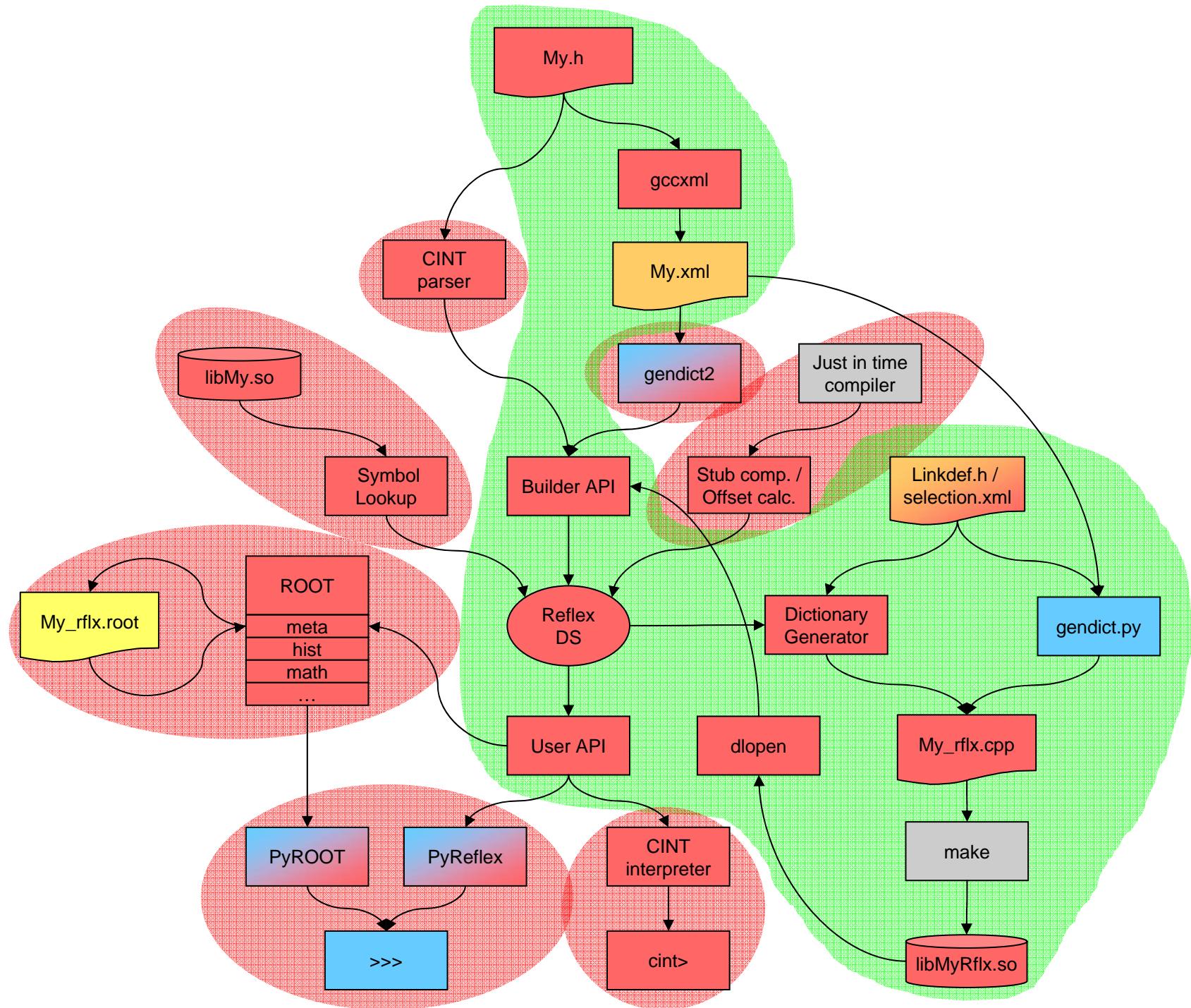
*Development
on longterm*

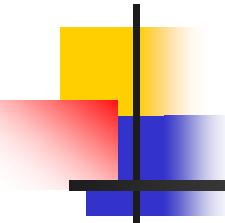
- Symbol lookup
 - For smaller dictionaries, no stub-functions needed
- C++ coverage almost complete
 - C++ bitfields missing
 - is it possible at all?
- Late loading of libraries / .root files. 2 steps:
 - 1) load declaration
 - 2) full definition
- Runtime compilation
 - Runtime dictionary generation of templates
 - Partial function compilation
- Multithreading
 - For multi core cpu
- Gendict.py replacement in C++
 - Parse gccxml output and feed into Reflex



- PyROOT now moving from CINT to Reflex
- Allows easy Python usage for any C++ class
 - Non intrusive / light way of using C++ in Python
 - No Cintex needed
- Could be an entrance to ROOT for new users







ROOT

- Split Dictionary / Implementation
 - Dictionaries are not always needed
 - Switch between Reflex / Cint dictionaries possible
- Schema evolution
 - Automatism unclear for me
 - what is possible what not?
 - What about making it explicit?
- Modular build of ROOT
 - Partial build can be useful
 - e.g. Online farms will not require graphics
 - Easier bug fixes
 - only parts have to re-built
- Two favors to ask
 - Spam fight for lists
 - ROOTDEV
 - Skip 6.13.xx release :-)