History of Cxx.jl-based Julia/ROOT interaction

- ROOT.jl (https://github.com/JuliaHEP/ROOT.jl): Loads ROOT libraries and initializes a few basic things. Created in 2014 by Joosep Pata, later maintained by Oliver Schulz, officially registered package for Julia <= v0.6, never made to to Julia v1.0.

- ROOTFramework.jl (https://github.com/JuliaHEP/ROOTFramework.jl) by O. Schulz, add on package to add some Julia bindings to ROOT, never registered but was used in production in the past

- Past use cases (at least my own): Reading/writing of application-specific ROOT files with custom streamers
Challenges

- Need to export `JULIA_CXX_RTTI=1`

- Loading the ROOT libraries from a Julia session used to result in the following error:

  ```
  Error in <UnknownClass::InitInterpreter()>: LLVM SYMBOLS ARE EXPOSED TO CLING! This will cause problems; please hide them or dlopen() them after the call to TROOT::InitInterpreter()!
  
  *** Break *** segmentation violation
  
  Past workaround (credit to Joosep Pata): ROOT.jl used to compile a custom Julia binary that load ROOT libraries before starting the Julia session - cumbersome, but worked.

  For details, see https://github.com/JuliaHEP/ROOT.jl/issues/17

  May be resolved in current Julia versions, but could just be because LLVM versions of Julia v1.3 and ROOT v6.24 are similar, will need to see.
Demos
Non-C++ Julia/ROOT compatibility