Tutorials

• Hands-on
Tutorials

• 60 versus 2?
• On the web!
  • http://cern.ch/go/XX9R
• If you know ROOT: go for it!
Tutorials
Starting up ROOT

- ROOT (usually) needs environment variables, e.g. $ROOTSYS / %ROOTSYS%
- bash:
  - source /PathToROOT/bin/thisroot.sh
- [t]csh:
  - source /PathToROOT/bin/thisroot.csh
Starting up ROOT

- ROOT has a prompt:

```
opt$ cd ..:/opt/
opt$ source bin/thisroot.sh
opt$ root

WELCOME to ROOT

Version 5.34/07 26 April 2013

You are welcome to visit our Web site
http://root.cern.ch

ROOT 5.34/07 (branches/v5-34-00-patches@49358, Apr 29 2013, 08:55:00 on macosx64)

CINT/ROOT C/C++ Interpreter version 5.18.00, July 2, 2010
Type ? for help. Commands must be C++ statements.
Enclose multiple statements between { }.
root [0]
```
TFile

- TFile stores data
- for instance LHC experiments’ data
- key/value
- read into C++ objects:
  ```
  TH1* hist = (TH1*) file->Get("hist");
  ```
TFile

• Self describing
  • knows what is stored, e.g. data of a TH1

• Needs recipe for filling C++ objects in memory from data on file
  • either from description in file
  • or using a “dictionary” (compiled recipe)
TFile in Tutorials

- Open a TFile, from the web
- Access the TTree container object in it
- TTree reads its content: C++ objects
- here: no dictionary - thus using description in file
And now?

- We have experts and beginners
- Small ROOT dev team and it’s summer: Bertrand and Axel is a large fraction of ROOT devs
- Only way out:
Serviced Web Tutorials
La Fin

• Contact us with
  • questions
  • complaints
• axel@cern.ch
• root.cern.ch/bugs
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• REALLY.