How to Run the ROOT Macros

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Check out example packages

- git clone git@github.com:syuvivida/ExamplesForStudents.git
- In the directory ExamplesForStudents, you will find various macros (codes)
- Run the marcos after you set up ROOT
- The github link is
 - https://github.com/syuvivida/ExamplesForStudents

Macro: eta.C

- Under ExamplesForStudents/physics directory
- This macro generates a flat θ distributions and from that the η is computed
- To run this macro, type:
 - root -q -b eta.C
- After you run the macro, you will find a root file "eta_theta.root".
- In this root file, two histograms are saved, one is the distributions of η and the other is the distribution of θ
- To check the distributions inside this root file:
 - root -l eta_theta.root
 - h_theta->Draw()
 - h_eta->Draw()

Macro: fillTree.C

- Under ExamplesForStudents/rootBasics directory
- This macro reads an input text file and fill the data into a tee. Then, the tree is saved in a root file
- To run the macro, type:
 - root -q -b fillTree.C\(\''test.dat\''\)
- Then a root file "Event.root" is created. Inside this root file, there is a tree called "tree"
- You could draw the variables inside tree or do other more complicated calculations
 - root -l Event.root
 - tree->Draw("eta")
 - tree->Draw("pt")