




How to use Root:

<http://root.cern.ch/> 


"How to" page:

<http://root.cern.ch/drupal/content/howtos> 

User's guide:

<http://root.cern.ch/drupal/content/users-guide> 

Reference guide:

<http://root.cern.ch/drupal/content/reference-guide> 

Run it:

```
root -l
```

Open a file:

```
TFile *_file0 = TFile::Open(".....root")
```

File browser:

```
TBrowser <name>
```

List the directories:

```
.ls
```

```
<directory name>.cd()
```

Print the tree:

```
ntuple.Print()
```

Scan the tree:

```
ntuple.Scan("<name of a Branch>.<name of a leaf>")
```

Make a new histogram

```
TH1F *name_of_the_histogram = new
```

```
TH1F("name", "title", <#of Xaxis>, <#of Yaxis>, <#of Bins>);
```

Make a new canvas:

```
TCanvas *c1=new TCanvas ("name", "title", 1);
```

Draw a histogram

```
<name of the tree in the file>.Draw("<name of a Branch>.<name of a leaf>")
```

2D histogram

```
<name of the tree in the file>.Draw("<name of a Branch1>.<name of a leaf1>:<name of a Branch2>.<name of a leaf2>")
```

histogram with cut criteria:

```
<name of the tree in the file>.Draw("<name of a Branch1>.<name of a leaf1>,<name of a Branch2>.<name of a leaf2><cut criteria>")
```

draw two histogram in one canvas:

```
<name of the tree in the file>.Draw("<name of a Branch1>.<name of a leaf1>")
```

```
<name of the tree in the file>.Draw("<name of a Branch2>.<name of a leaf2>","","SAME")
```

e. g.:

```
tree.Draw("pelectron_1.tight:pelectron_1.loose", "pelectron_1.tight>-1")
```

Open an AOD file in root:

```
gSystem->Load("libFWCoreFWLite");
AutoLibraryLoader::enable();
TFile *_file0 = TFile::Open("rfio://castor/cern.ch/user/.....root")
TBrowser b
```

TChain:

Chain.C:

```
#include <TChain.h>
void Chain() {
    TChain tree("stopAnaMbd/tree");
    tree.AddFile("stopAnaNtuple_noselection_Chowder_00.root");
    tree.Draw("event");
}
```

Save a histogram to .eps:

```
TCanvas *c1=new TCanvas ("name", "title", 1);
<name of the tree in the file>.Draw("<name of a Branch>.<name of a
leaf>");
c1->SaveAs("name.eps");
```

Usage of MakeClass:

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This topic: Main > HUSUSYRoot

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