

Python Analysis Tool Tutorial

By

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Our Websites

http://piti118.github.com/babar_python_tutorial/

Hypernews

Python/IPython Analysis Tools

<http://babar-hn.slac.stanford.edu:8080/HyperNews/get/pythonAnalTools.html>

Agenda

- ▶ Very Basic Python
- ▶ Reading root file and plotting them
- ▶ Multivariate Analysis
- ▶ Fitting

Security Notice

Short Version

DO NOT use IPython notebook on shared computers (yakut noric etc.). The default setting is very unsecure.

Long Version

DO NOT use IPython notebook on shared computers unless you know what you are doing.

- ▶ The default setting only listen on localhost with no password. This is OK on your personal computer. But, on shared computer everyone is on localhost.
- ▶ IPython executes code as you. So, anyone with access to localhost will be able to execute code as you. This means they can delete your files and edit your codes and a bunch of other things.
- ▶ It is possible to setup password and have it binds to non-localhost/specific port etc. But, I won't go into details but the keyword is *IPython profile*.

Help us develop

`root_numpy`, `iminuit`, `probfitt` are relatively young

If you are interested in helping. Look at their github pages.

- ▶ `root_numpy` https://github.com/rootpy/root_numpy
- ▶ `iminuit` <https://github.com/iminuit/iminuit>
- ▶ `probfitt` <https://github.com/iminuit/probfitt>

Git is different.

You don't need to ask for write permission to repository. You clone repository do your magic and tell us "hey, look at my amazing work" by making a pull request. Don't be shy.

I often make pull request to matplotlib and IPython. It's fun.