

sPHENIX Analysis Package Tutorial

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Quick Overview

- ▶ This tutorial is intended to give basic instructions on how to build and run an analysis package in an sPHENIX environment
- ▶ You should hopefully already be able to either:
 - ▶ Log into RCF and access your account
 - ▶ Run the Singularity container
- ▶ You will likely still have software related questions. Use the available resources such as:
 - ▶ Doxygen ([link](#))
 - ▶ The wiki ([link](#))
 - ▶ Github ([link](#))
 - ▶ Your colleagues

More Specific Resources

- ▶ There are several resources for writing analysis packages:
 - ▶ The analysis repository ([link](#))
 - ▶ Any of the coresoftware repositories will show you ways to build and use packages (remember it is all Fun4All!)
 - ▶ The tutorial package we will discuss today ([link](#))

One Last Comment

- ▶ If you have questions and have done your due diligence to find an answer (and haven't found one), ask!
- ▶ Document your questions!
 - ▶ It is likely that if you have a question that wasn't answered via `wiki/doxygen/git`, someone else does too. Use the wiki to your (and the collaboration's) advantage.

- ▶ The plan now is for me to share my screen and walk through the steps to build a package, add it to the default Fun4All macro, and run an example sPHENIX simulation
- ▶ If you have questions, please interrupt me!

- ▶ Some important links for the tutorial:
 - ▶ Example tutorial analysis package repository ([link](#))
 - ▶ Example 1000 event output after running on Condor:

`/sphenix/data/data03/sphnxpro/sim/AnaTutorial/output/anaTutorial.root`