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LHCb Bender [Tutorial v14r5p1: Getting started with Bender](#)

This hands-on tutorial is an introduction to Bender [- Python](#)-based user friendly environment for physics analysis.

The purpose of these exercises is to allow you to write a simple algorithm for decay selection and analysis.

The exercises cover the following topics:

This tutorial has last been tested with Bender v14r5p1, [the \(partly obsolete\) slides are available in pptx and pdf formats.](#)

If the content of this pseudo-"hands-on" tutorial is a bit boring for you or you know well all the described topics please refer to these [or even these](#) pages in between the exercises.

Prerequisites

It is assumed that you are more or less familiar with the basic tutorial, also some level of familiarity with the DaVinci tutorial is assumed. Some familiarity with basic GaudiPython and python-based histograms & N-tuples is welcomed. It is also recommended to follow LoKi tutorial and the basic GaudiPython tutorial [.](#) You are also invited to the lhcb-bender mailing list.

Setup the environment for Bender [.](#)

For this particular tutorial we'll concentrate on the interactive jobs and let the batch system and GRID, Ganga and DIRAC tool some rest. Batch and GRID-aware actions for Bender [-based analysis are not covered by this tutorial.](#)

The package `Tutorial/BenderTutor` is used as the placeholder for the tutorial exercises:

```
1000> SetupProject Bender vr14r5p1 --build-env
1001> getpack Tutorial/BenderTutor v14r5p1
1002> make
1003> SetupProject Bender vr14r5p1
```

-- VanyaBelyaev - 31-Aug-2010

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