

Awkward RDataFrame Tutorial

Thursday 15 September 2022 17:30 (30 minutes)

This Jupyter notebook tutorial will cover usage of Awkward Arrays within an RDataFrame.

In Awkward Array version 2, the `ak.to_rdataframe` function presents a view of an Awkward Array as an RDataFrame source. This view is generated on demand and the data is not copied. The column readers are generated based on the run-time type of the views. The readers are passed to a generated source derived from `ROOT::RDF::RDataSource`.

The `ak.from_rdataframe` function converts the selected columns as native Awkward Arrays.

The tutorial demonstrates examples of the column definition, applying user-defined filters written in C++, and plotting or extracting the columnar data as Awkward Arrays.

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