



Contribution ID: 21

Type: **not specified**

The grammar of graphics and ROOT

Tuesday, 11 September 2018 11:15 (10 minutes)

The tidyverse is a collection of R packages for data science sharing an underlying design philosophy and data structures similar to RDataFrame. ggplot is the graphics library component of the tidyverse, implementing the concepts behind The Grammar of Graphics. ggplot allows to express our analysis in a declarative, layered, functional way, closely related to the programming model behind RDataFrame.

We compare several ggplot2 visualizations with their current approximate implementation in ROOT and vice-versa, showcasing how ROOT's programming model would benefit from an approach similar to the one adopted by ggplot2, a perfect fit for the new programming paradigm introduced by RDataFrame.

Primary author: VALLS PLA, Xavier (University Jaume I (ES))

Presenter: VALLS PLA, Xavier (University Jaume I (ES))

Session Classification: Scientific Visualisation, GUIs and Documentation

Track Classification: Presentations