

# PRT I, Rave from Python & PRT I

## Course Description

### *Audience*

This course addresses developers who want to learn the basics of Python Report Toolkit (PRT) and all about Rave's Python API.

### *Prerequisites*

The courses “Infrastructure Introduction”, “Python” and “Rave I”.

### *Duration*

2 days

### *Course goals*

You will learn all about Rave's Python API and become familiar with basic possibilities in the API you use to define PRT reports. When you have completed the course you will be able to create new and maintain existing basic PRT reports.

### *Course topics*

- Studio's development environment for Python code
- Basic objects
  - text
  - image
  - row
  - column
  - isolate
- Basic properties
  - colour
  - font
  - size
  - aligning
  - etc.
- Pages handling
  - breaks
  - headers
  - footers
  - bookmarks
  - cross references
- Rave's Python API (to get data for PRT reports)
  - basics
  - consider planning objects

- contexts
  - bags
  - iterators
- rule failures & constraints
- transforms
- Best practice
  - standard header
  - bag handler

There are a many examples and exercises (with solutions) in this course.

In all examples and exercises a file based Crew Rostering/Pairing system with a generic rule set, flight data from OAG and faked crew data is used.