

CONDA, INTRODUCTION TO DATA SCIENCE

TRAINING OBJECTIVES

Know how to process spatial data with Python and the CONDA package manager.

At the end of this training, participants will be able to:

- Understanding what a Package Manager is
- Know how to use CONDA and its different distributions
- Have an overview of the packages available for data science
- Reading and writing data with Python
- Audit and analyze data



TARGET AUDIENCE

Anyone with a background in geographic information systems and who regularly uses Python to carry out processing



PREREQUISITE

Knowing how to program with Python
Come to the training with your own laptop and have the Administrator profile of your machine to be able to install CONDA. Have VS Code installed on your workstation



EDUCATIONAL RESOURCES

Digital course material given to the trainee (with concrete cases, practical exercises, technical sheets)

Evaluation questionnaires and certificate of completion of training



DURATION > 1 day



REGISTRATION

Email > formation@arxit.com

Consulting us for accessibility for people with disabilities

PROGRAM

DAY 1: GETTING STARTED WITH CONDA

INTRODUCTION

What is data science?

What is a package manager?

The different distributions of CONDA

USING CONDA

Installation

Creating your environments

Share an environment

USE JUPYTER

Installation

Jupyter Lab

Integration into VS Code

DAY 2: PERFORM GEOPROCESSING

CREATE AN ENVIRONMENT FOR GEOPROCESSING

Some packages available for spatial data

Environmental management

READ A FILE

Read a shapefile?

Read data online

MAKING YOUR DATA SPEAK

View your data

Gain insight with Data Wrangler

Create a chart

Create a map

MODIFY YOUR DATA

Manipulating Dataframes and Geoframes with GeoPanda

WRITE YOUR DATA

Possibilities

Available formats

