# LABCAMP/SEMINAR REQUEST DETAILS

### General Details provided by Alex Loosley and Alexandre Salles.

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| **When:** | **25th May** |
| **Where:** | **Milano** |
| **Names of trainers:** | **Loosley Alexander, Salles Alexandre David** |
| **Titles:** | **Python Introduction + Build Your Own Image Classifier with Python** |
| **Abstract:** | In the first hour, students will learn python basics such as how to use a pandas dataframe. Time permitting, students will also learn what it means to take an object oriented approach. In the second hour, we will take shallow dive into using machine learning for general classification and for image recognition. In the final hour, we will build a simple image classifier (e.g. classify cat vs dog, or digit recognition). By the end of the course, students will understand a few basic classification algorithms and take home their very own image classification tool. |
| **Requirements:** | No prior python experience is expected. Students will require their own laptop. Bring images of the things you want to classify (*e.g.* images of faces for facial recognition, images of cats vs. dogs, images of cool cars vs. boring cars, *etc.*) |

### Other Details

* **Technical Requirements:** Students will use Jupyter Notebooks hosted on a gcloud instance. Therefore, students will only need a modern web-browser (*e.g.* chrome) and a stable internet connection.
* **Preparation:** Take 30 minutes ahead of the class to learn python syntax basics at an interactive learn to program site like CodeAcademy (<https://www.codecademy.com/learn/python>)
* **A Live Registration** of the training session will be recorded on TamTamy as follow-up material.

### More about LABCAMP/SEMINAR

**Number of Participants:** form 10 to 30 Replyers (no contractor, no collaborator).  
**Registration:** participation open, upon registration.  
**Date:** May 25, 2016  
**Duration:** 3 hours (not including preparatory time).

**Aim:** hands-on seminar for internal knowledge sharing on specific technological topics.

**BEFORE EVENT**:  
Event details & Registration online

**EVENT AGENDA:**

17.00 – 17.15 Group Introductions, Connecting to Online Jupyter Notebooks (python in the cloud)  
17.15 – 17.45 Python Intro – primitive datatypes, pandas dataframes, *etc.*   
17.45 – 17.55 Python Exercises

(break)  
18.00 – 18.45 Classification, everything you need to know

18.45 – 19.00 Intro to Image Classification  
(break)  
19.05 – 19.45 Build Your Own Simple Image Classifier (basic example = digit recognition)  
19.45 – 20.00 Image Classifier Show and Tell – Wrap Up

20.00 Catering

**AFTER EVENT:**   
Follow-up page + Satisfaction survey

The above agenda can change according to the trainer’s needs.

**Example Special Page**[**https://tamtamy.reply.eu/tamtamy/page/Labcamps.action**](https://tamtamy.reply.eu/tamtamy/page/Labcamps.action)

**Location** (indoor)

1. Online workspace area for preliminary activities/reference materials repository
2. Dedicated meeting room at Reply Offices

**Magic Ingredients:** Your passion on the topic!