

Digital Skills Summer Camp 2018

1. General Camp set-up

- The Digital Skills workshop takes place on 9 afternoons, 3,5 hours a day.
- On the first day the whole group meets to go through the basics of **e-safety**.
- In order to conveniently take work done in the camp at home, we would kindly ask to **bring your own computer**. Please do not forget to bring a charger and an electric converter for the computer.
- The camp is suitable for students with all levels of digital knowledge. Learning takes place in small groups (maximum 6 students for one instructor) and everyone gets to work on individual tasks suitable for their level.
- The camp is taught in **English**, the language of code. As the instructors are bilingual, specific questions can be discussed also in **German** and **French**.

2. There are two different options on offer

Build your own Digital Game with Python: “Easily pick-up a powerful and fast computer language”

Students are introduced to computer programming using one of the most popular professional programming languages on the market. Python is easy to pick up, whether a student is a first-time programmer or experienced with other languages. Teens will enjoy writing short programs with Python, will work on group exercises, and will then build a game of their choice.

About Python

Python is one of the world’s most frequently used coding languages: according to codeeval.co, Python retains its #1 position since 4 years, followed by Java, C++, and JavaScript. Whether you are interested in computer science, engineering, life sciences or indeed business or the arts, Python is a great way to prepare for university education. Python is powerful and fast. It plays well with others, it runs everywhere, is friendly & easy to learn, and is open.

www.techsparkacademy.ch & www.python.org/about

Adventures in Robotics with Arduino: “Build and program your own robot!”

Robots have an increasing presence in our daily lives. Whether a student is interested in digital intelligence or is a fan of Star War’s R2-D2, this course will allow him/her to build a robot and then learn hands-on robotic programming with “Arduino”, a very popular robot programming language.

About Arduino

Arduino is an open-source platform based both on a microcontroller board and a development environment, which will enable the user to write code to interact with the environment. Be it a simple blinking LED or a more complex line-follower obstacle-avoiding robot, Arduino can do it!

www.techsparkacademy.ch & www.arduino.cc/en/Guide/Introduction