Creative coding

AA 2017-2018

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* Introduction *

is open to all the students who want to explore the potential of programming for **design and creative purposes**, as well as **communication and art**.

* Introduction *

The course **does not require previous knowledge**, if not interest in the subject and the desire to deal with a new design tool.

* Introduction *

The course will provide the **basics of coding** to create **simple interactive prototypes**; at the same time the state of the art will be explored and discussed.

* Introduction *

Students will use **P5.js**, a library designed to make coding **more accessible to designers** and artists.

* Outcomes *

At the end of this course you will:
- Learn the basics of object-oriented coding;
- Learn the p5.js library;
- Learn how to create html pages with interactive contents;
- Learn how to use web repositories (Github) and to use them to publish content online

* Prerequisites *

As we said, no prior knowledge of coding is needed to attend the course. It is however **useful to have minimal knowledge on terminology** and on web-related technologies (HTML, CSS, Javascript).

* Prerequisites *

We strongly suggest to attend to this
online courses provided by CodeAcademy:

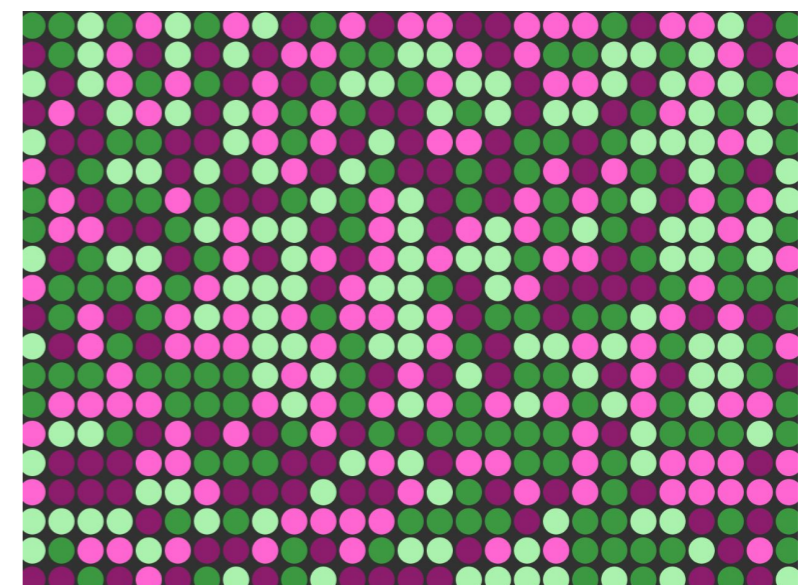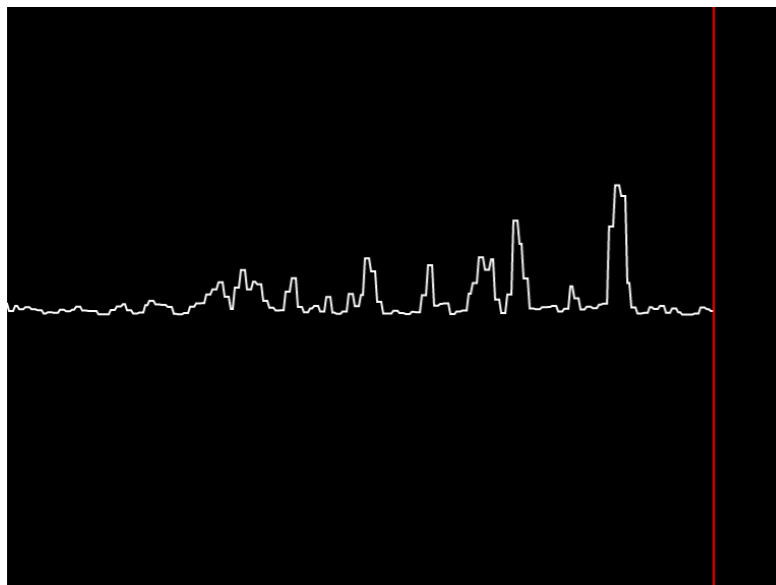www.codecademy.com/learn/learn-javascript

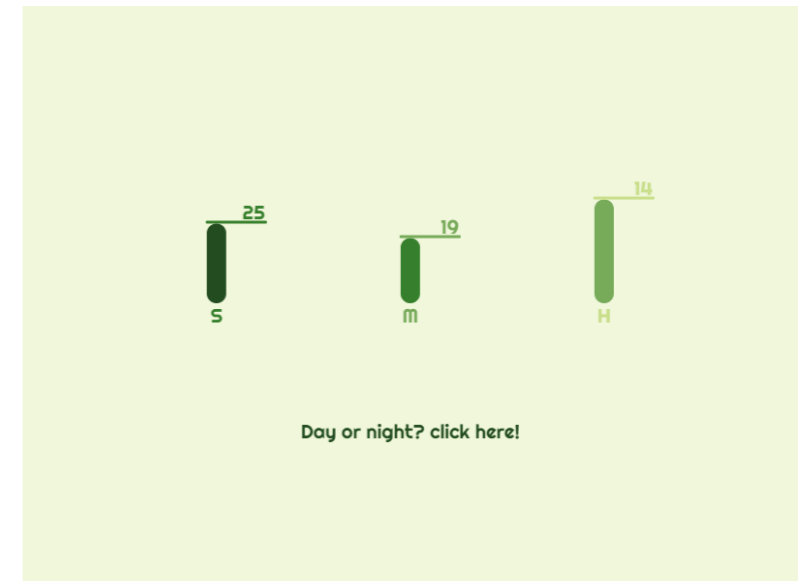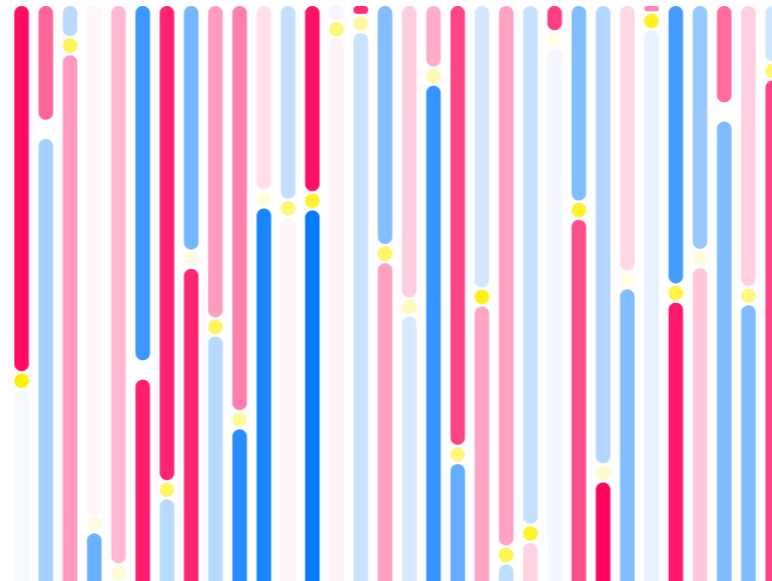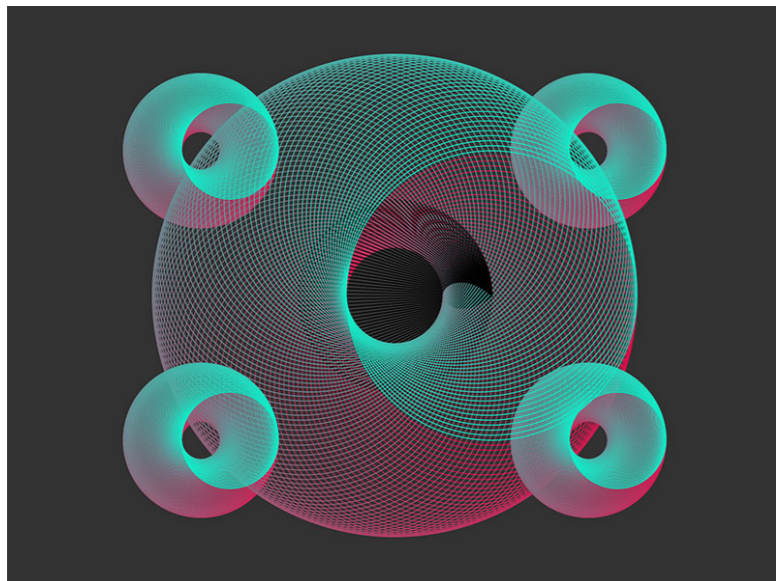www.codecademy.com/learn/learn-html-css

* Evaluation Criteria *

The evaluation will be based on four components:
- **Weekly assignments**
- **A mid-term exam** ("prova in itinere")
- **A group project** (max three people per group)
- **Group review** of state of the art.

* Previous edition *

You can see all the results of the
previous edition at this address:
drawwithcode.github.io

* FAQs *

I never wrote code, I really don't have idea on how it works, can I follow the course?
It depends. If you are motivated, it is not an obstacle, but you should spend some time following the online courses (CodeAcademy) to familiarize yourself with the technologies we will use. Since little time is available during the course, the basic concepts of coding will be quickly introduced, then focusing more on their use.

I would like to learn how to make web sites, is this the right course?
No. With this course we will provide you with basic training to create responsive web pages and to create simple interactive applications (with P5). This is a good starting point, but not enough for creating a full website.

I read that we must make a web application. I've never done such a thing before. Can I follow the course?
Yes, we will provide you with all the necessary support, you will see that it is simpler than it seems. Obviously, we count on your goodwill and desire to learn.

* FAQs *

I have so many things to do, can I follow as non-attending student?
Creative Coding is a practical course. You will spend time writing code, from small and simple projects to the final one. For this reason, it's not possible to follow the course as non-attending.

I'm already able to code and I want to improve my skills in the field, is this the right course?
The course aims to provide basic skills, we will focus on the simplest tools to create web projects (such as p5.js and other libraries). The course can be a useful review of the underlying concepts, to gather a more methodical approach.

I have another doubt that is not dealt with here but which is very important to me, can I contact the professor in some way?
Yes, my e-mail is michele.mauri@polimi.it.