



# {code}bridge code camp:

## **Web Development and Data Munging**



## **Course Outline**

The aim of this course is to teach the basics of web development. The following modules will be included:

- HTML
- Working with data, learning the basics
- CSS
- Javascript
- Data Visualisations
- PHP
- MySQL

Each module takes about 4-6 weeks.

At the end of the course, students will have a solid grasp of the basic functions of these subjects and how they can be used to develop a website. A strong focus will be on providing a good understanding of the basics, combined with an understanding of how to use manuals and other resources that enable continuous learning and self-improvement through future practice.

## **Course Set-up**

We will meet once a week for a 3-hour session. During this session new concepts will be explained and homework will be reviewed. Between the sessions, students will have to practice at home and are expected to invest 15-20 hours each week on their homework. **Programming requires practice, and despite the relatively low number of class hours, students must expect a high workload due to the homework requirements.**

## **Target Audience**

This course is aimed at people interested in learning how to develop websites and could see themselves do this as their profession. A strong preference will be given to students who can not afford to take this kind of course in another setting.

## **Course Dates**

The course is scheduled to start mid June and end somewhere early 2016. The time will depend on participant availability and several time slots will be proposed and voted on.



## **Venue**

Classes will take place at [Codebridge](#) in Claremont. This civic technology lab is located within walking distance from the Claremont train and bus station.

## **Requirements**

There are no pre-requisites, except for being comfortable with computers and being able to spend sufficient time on this course. For each class session, students are expected to bring a laptop to the class. Alternative solutions can be discussed but individual laptops are strongly preferred.

## **Costs**

This course is free of charge.

However, there is one requirement. Students who finish this course are expected to share their knowledge, and are asked to sign an agreement in which they promise to try and teach a similar course to at least one other group, within 3 years after finishing the course.

## **About this course**

The web development modules will be taught by Paul Hoekman. Paul has over 15 years experience developing websites, and it is the sixth time he will be teaching this course. Paul works for Penguin Protocols – a web and software development firm with its roots in Central America, now expanding to South Africa!

The data modules will be taught by Adi Eyal. Adi founded Code for South Africa, a non-profit technology organisations that uses data for good. Amongst its activities, Code for South Africa teaches journalists and activists to use data in order to find stories and deliver their messages.

## **Interested?**

Go to <http://penguinprotocols.com/course> to register.