**Camp Codea Recommendation**

Online Platform:

<https://www.w3schools.com/>

**W3Schools** is a web developers site, with tutorials and references on web development languages such as HTML, CSS, JavaScript, PHP, SQL, and JQuery, covering most aspects of web programming. W3Schools has focus on simplicity, practicing easy and straight-forward learning. By using an online editor (Try It Yourself), you can edit examples and execute computer code experimentally, to see what works and what does not, before implementing it.

<https://www.khanacademy.org/>

**Khan Academy** offers practice exercises, instructional videos, and a personalized learning dashboard that empower learners to study at their own pace in and outside of the classroom. We tackle math, science, computer programming, history, art history, economics, and more. Our math missions guide learners from kindergarten to calculus using state-of-the-art, adaptive technology that identifies strengths and learning gaps. We've also partnered with institutions like NASA, The Museum of Modern Art, The California Academy of Sciences, and MIT to offer specialized content.

<https://www.lynda.com/>

**lynda.com** is an American online education company offering video courses taught by industry experts in software, creative, and business skills.

<https://learncodethehardway.org/>

**Learn Code The Hard Way** courses are the most effective system for learning the basics of computer programming, designed specifically for complete beginners. The courses have helped millions of people a year just like you, from all over the world, from all different age groups and skill levels. Highly recommended <https://learncodethehardway.org/python/> .

Youtube Channels

<https://www.youtube.com/user/CodeOrg>

**Code.org** is a non-profit dedicated to expanding participation in computer science education by making it available in more schools, and increasing participation by women and underrepresented students of color. Our vision is that every student in every school should have the opportunity to learn computer programming. We believe computer science should be part of the core curriculum in education, alongside other science, technology, engineering, and mathematics (STEM) courses, such as biology, physics, chemistry and algebra.

<https://www.youtube.com/user/cs50tv>

This is **CS50**, Harvard University's introduction to the intellectual enterprises of computer science and the art of programming. Demanding, but definitely doable. Social, but educational. A focused topic, but broadly applicable skills. CS50 is the quintessential Harvard (and Yale!) course.

<https://www.youtube.com/user/thenewboston>

**TheNewBoston** offers tons of sweet computer related tutorials and some other awesome videos too!

Book List

**The C Programming Language** (<http://www.dipmat.univpm.it/~demeio/public/the_c_programming_language_2.pdf>), the canonical C bible if students really want to get advanced and down to the metal

**Secrets of the JavaScript Ninja**

This book takes you on a journey towards mastering modern JavaScript development in three phases: design, construction, and maintenance. Written for JavaScript developers with intermediate-level skills, this book will give you the knowledge you need to create a cross-browser JavaScript library from the ground up.

Advanced Programming Practice Website

<http://cryptopals.com/>

<https://www.codewars.com/>

<https://projecteuler.net/archives>

Others:

- Arduino starter kit (<https://store.arduino.cc/usa/arduino-starter-kit>). Awesome because it's easy and actually hands-on with real hardware.