



Alexa Café
Ages 10 - 16 | All-Girls | Beg - Adv

In conjunction with
FUTURE READY Educational Tours



5 day Girls' Technology Program - Silicon Valley USA

for Innovation – Enterprise - Impact

- ✓ **All-girls STEM camp** empowers students ages 10-16 to use technology to make a positive impact.
- ✓ **Students learn engineering principles**, code games, design websites, model and print 3D objects, create wearable electronics, learn cyber security, produce videos, and more.
- ✓ **Girls learn in a collaborative environment** that celebrates creativity, philanthropy, and entrepreneurship.
- ✓ **Tech-savvy mentors teach courses** in small groups of just 8 girls per instructor—guaranteed.
- ✓ **Held at the prestigious Palo Alto High School** in Silicon Valley, California.



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An award winning not-just-for-profit social enterprise

The Australian Educational Travel Company

iD Tech
CAMPS, ACADEMIES & ONLINE

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Courses in 2017:

Code Cafe 1 — Creative Coding with JavaScript:

- Girls will learn programming fundamentals and computational thinking in a collaborative, energetic environment using JavaScript, one of the most powerful languages for creating interactive websites, apps, and programs. Learning to code is too often associated with tedious beginner and practice exercises. No longer. Creativity rules. Students take on fun challenges throughout the week while developing real-world programming skills.

Code Cafe 2 — Advanced Coding with Java

- This course is the next step in your student's coding journey. Girls continue to learn programming in a collaborative, approachable way using the power of Java—one of the most relevant, in-demand programming languages on the market today. They'll create their own game or Java application as they build essential skills for college and beyond.

Engineer Workshop— Coding & Wearable Electronics with LilyPad Arduino

- In a supportive, engaging environment, girls will learn electrical engineering and coding principles using a take-home LilyPad Arduino Starter Kit. They'll create wearable electronics that spring to life with lights and sensors, prototyping devices that amaze and inspire—the perfect balance of creativity and tech.

Game Arcade — Mobile Game Design & Development

- Now your student can develop innovative mobile games for iPhone and Android, while working in a highly collaborative and supportive environment. They'll brainstorm, plan, and bring their creation to life with Stencyl, a powerful game design tool with a user-friendly interface. Along the way, girls will learn about key game design principles that have universal application.

Design Boutique — Web Design & Photography

- Girls in the course will build a photography portfolio and learn how to capture the perfect shot. Equipped with professional DSLR cameras and tools from Adobe, girls will learn the technical and creative aspects of photography and digital editing. They'll tie it all together by discovering the elements of brand identity and web design.

Decoder Squad — Encryption & Cyber Security

- Girls will learn how encryption and ciphers still keep millions of people safe in a world where the sending of personal information online is eternally increasing. They'll discover the history of cryptography, solve puzzles, and send encrypted messages to their new friends. Then, students will peer into modern cyber security to see how to protect data with programs and computers.

3D Studio — Modeling & Animation with Autodesk Maya

- Girls will get a head start in 3D art creation with Autodesk Maya, the 3D modeling and animation software package used by the pros. They'll build the skills and techniques it takes to make models from scratch. Then, students will learn how to bring models to life with animation. This is your student's chance to turn their imagination into a reality, and use it to share their vision and inspire others.

Print Shop — 3D Printing with Autodesk 123D Design

- From inexpensive prosthetic limbs to crucial surgical tools in remote areas, 3D-printed objects are changing the world—and now your student can be a part of it. Girls will use the intuitive Autodesk 123D Design modeling interface to design 3D objects, successfully prepare them for a 3D printer, and then observe the 3D printing process from start to finish. The best part of all? They'll get to actually take home their creation. Students will design multiple objects, and take home at least one printed object of their choice.

Video Production

- This is your student's opportunity to spread the word about what's important to them through vlogs, tutorials, or video shorts using pro-level cameras and the drag-and-drop power of Adobe Premiere. They'll discover the basics of filming, editing, and screen capture to express their cause. Girls also will learn about digital citizenship, and end the week by uploading their new video to YouTube to share with the world (or maybe just their friends).