



SUMMER CODING CAMPS

AT COLORADO ACADEMY

June & July 2017



OVERVIEW

Kids learn to code by creating their own video games, game controllers, animated stories, and interactive art. They build their projects in [Scratch](#), an MIT-developed computer programming language for children. Scratch is free and web-based, allowing kids to work on their projects from home, publish their work to the Scratch website, and introduce the fun of Scratch to siblings, parents, and friends. The 3-minute [Scratch Video](#) and the 3-minute [Code.org Video](#) show the joy and value of learning to code.

MindDance (formerly known as Myers Learning) is in its fifth year of offering summer specialty camps at CA. Students experience a warm and supportive learning community that is social, hands-on, creative, and fun. Three teachers from MindDance provide inspiration and support as kids experiment, tinker, create, and share.

Our coding camps at Colorado Academy serve children entering **grades 1-8**, with different camps for different age levels as indicated in the schedule below. All our camps are week-long and half-day, with the option to combine them with other CA half-day camps to create a full day. No prior coding experience is needed, and many campers sign up for several MindDance camps in the course of the summer, allowing them to build on their progress. Students with prior coding experience will be challenged to deepen their coding and project development skills.



GIRLS CODE TOO!

CAMP DESCRIPTIONS

Video Game Design with Scratch (Grades 2-6)

Kids learn to code by creating their own video games in [Scratch](#). Participants begin by creating classic games like Pong, Pac-Man, and Brick Breaker. Then they learn to invent new games of their own.

Creating with Computers (Grades 1-5)

Kids learn to code by creating their own animated stories, music, and interactive art using [Scratch](#). This camp is great for children who love storytelling, music, drawing, and painting. Children enjoy becoming CREATORS rather than just CONSUMERS of digital content.

Inventing with Computers (Grades 3-8)

This camp serves as a playful introduction to coding (and engineering) for kids who love to invent. Kids begin by using laptops and [Scratch](#) to create their own video games, music machines, and interactive art. Next, they use craft materials to build physical devices to control their digital creations. For example, they build their own joysticks out of egg cartons, tin foil, and popsicle sticks, or they build their own keyboards out of wire, mat board, tin foil, and clothespins. Finally, they get friends and teachers to play and test their games and devices. Students work with [Scratch](#), and with the [PicoBoard](#) from SparkFun Electronics.

CALENDAR

Week 1: June 5-9

9:00am - 12:00pm: **Video Game Design with Scratch** (Grades 2-6)

12:30 - 3:30pm: **Creating with Computers** (Grades 1-5)

Week 4: June 26-30

9:00am - 12:00pm: **Video Game Design with Scratch** (Grades 2-6)

12:30 - 3:30pm: **Inventing with Computers** (Grades 3-8)

Week 6: July 10-14

9:00am - 12:00pm: **Video Game Design with Scratch** (Grades 2-6)

12:30 - 3:30pm: **Creating with Computers** (Grades 1-5)

Week 8: July 24-28

9:00am - 12:00pm: **Video Game Design with Scratch** (Grades 2-6)

12:30 - 3:30pm: **Inventing with Computers** (Grades 3-8)

PRICING & REGISTRATION

\$200 per week for half-day session (9am-12pm, or 12:30-3:30pm). (Discounts are available for multi-week, full day CA camp registrations.) A supervised hot lunch is also included for campers who sign up for two half-day sessions. Before and after care options are available for an additional fee.

To register, visit [Colorado Academy Summer Camps](#). For questions about MindDance coding camps, contact barbara@MindDance.com.

REGISTER FOR A SUMMER CAMP TODAY!