



**Mind  
Dance**  
Creative Coding

# SUMMER CODING CAMPS

AT COLORADO ACADEMY

June & July 2018



## 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. Participants in MindDance camps experience a warm and supportive learning community that is social, hands-on, creative, and fun. No prior programming experience is needed. The 3-minute [Scratch Video](#) and the 3-minute [Code.org Video](#) show the joy and value of learning to code.

MindDance is in its sixth 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 2-8**. 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 2-8)

Kids learn to code by creating their own video games. Each camper works with a school laptop and with [Scratch](#), an MIT-developed computer programming language for young people. Participants begin by creating classic games like Pong, Pac-Man, and Brick Breaker. Then they invent new games of their own. MindDance teachers provide inspiration and support as kids create and share their work. The Scratch programming language is free and web-based, allowing campers to work on their projects from home, long after camp is over, and to publish their work to the Scratch website.

### Creating with Computers (Grades 2-8)

Kids learn to code by creating their own animated stories, music, and interactive art. Each participant works with a school laptop and with [Scratch](#), an MIT-developed computer programming language for young people. Participants enjoy becoming creators rather than just consumers of digital content. MindDance teachers provide inspiration and support as kids create and share their work. The Scratch programming language is free and web-based, allowing campers to work on their projects from home, long after camp is over, and to publish their work to the Scratch website.

### Inventing with Computers (Grades 2-8)

Kids experience the fun of combining coding and engineering. Each participant works with a school laptop and with [Scratch](#), an MIT-developed coding language for young people. Campers use Scratch to create their own video games, musical devices, 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, wire, and popsicle sticks, or they build their own keyboards out of mat board, tinfoil, and clothespins. Finally, they get friends and teachers to try out their games and devices. To connect Scratch with the physical world, campers work with the [PicoBoard](#) from SparkFun Electronics. MindDance teachers provide inspiration and support as kids create and share their work.

## CALENDAR

### Week 1: June 11-15

9:00am - 12:00pm: [Video Game Design with Scratch](#) (Grades 2-8)

12:30 - 3:30pm: [Inventing with Computers](#) (Grades 2-8)

### Week 2: June 18-22

9:00am - 12:00pm: [Creating with Computers](#) (Grades 2-8)

12:30 - 3:30pm: [Inventing with Computers](#) (Grades 2-8)

### Week 3: July 16-20

9:00am - 12:00pm: [Video Game Design with Scratch](#) (Grades 2-8)

12:30 - 3:30pm: [Creating with Computers](#) (Grades 2-8)

### Week 7: July 23-27

9:00am - 12:00pm: [Video Game Design with Scratch](#) (Grades 2-8)

12:30 - 3:30pm: [Inventing with Computers](#) (Grades 2-8)

### Week 8: July 30-Aug 03

9:00am - 12:00pm: [Video Game Design with Scratch](#) (Grades 2-8)

12:30 - 3:30pm: [Inventing with Computers](#) (Grades 2-8)

## PRICING & REGISTRATION

\$200 per week for half-day session (9:00am - 12:00pm, 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 [nick@MindDance.com](mailto:nick@MindDance.com).

**REGISTER FOR A SUMMER CAMP TODAY!**