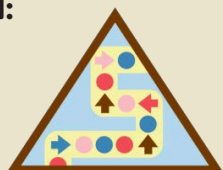girl scouts
of southeast florida

Coding for Good 1: Coding Basics

Badge Overview

Find out how computer scientists write programs for computers to solve problems. When you've earned this badge, you'll know how programmers write programs that make computers work and how people can use computers to help others.

Badge Components

1. Create algorithms for a computer that follow a sequence

An <u>algorithm</u> is a set of instructions designed to perform a specific task. This can be a <u>simple</u> process, such as move forward 2 spaces and turn left.

○ On the Code.org **website** complete 1. Learn to Drag and Drop, 2. Sequencing with Scrat and 3. Programming with Angry Birds. *(FYI videos advertising other sections of the website pop up between sections but you can just dismiss them.)*

2. Use loops to improve your algorithm

○ On the Code.org website complete **7. Loops with Scrat**

3. Use events to make things happen

○ On the Code.org website complete **12. A Royal Battle with Events**

4. Learn about women in computer science

Do some research on Ada Lovelace and Grace Hopper to find out why they are so important to the development of computer science.

5. Create your own set of commands that use events

○ Go to the Dance Party section of the code.org **website**. Click on START and complete the section. If you are enjoying learning about coding you can complete part 2 also.

Materials

• Computer or tablet

Florida Educational Standards

The content of all Girl Scout national proficiency Badges and Journeys have been correlated by grade level to national and state learning objectives.

Click here for more information on how Girl Scout Badge-work supports Florida's educational standards.

Finished with your badge? Now buy it for your Girl Scout Uniform. Order online at **https://www.girlscoutshop.com/SOUTHEAST-FLORIDA-COUNCIL** and we'll ship it for free.

We love to see Girl Scouts in action. Snap a photo and send it to **marcomm@gssef.org**. Include her name, troop# and the name of the badge she's working on and we'll feature her.