

Welcome



POUDRE RIVER
PUBLIC LIBRARY
DISTRICT

CONNECT
TO CURIOSITY

FAMILY

C O D E

NIGHT™



Featuring Hour of Code puzzles from Code.org®



Family Code Night



 **POUDRE RIVER PUBLIC LIBRARY DISTRICT** | **CONNECT TO CURIOSITY**

CsforALL





Your name

To get started:

1. Join the wifi network:
2. Start the program: Go to FamilyCodeNight.org/start. Click the link "Start the program."

Progress Tracker

Track your progress! Cross off each puzzle number as you go.

1. The Maze

*Coding Concepts:
Repeat, Repeat Until,
Repeat Sequence, If, If-
Else*

| | | | |
|----|----|----|----|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 |

2. The Artist

*Coding Concepts:
Computer Graphics;
Geometry & Degrees;
Set Color, Set Width;
Creative Time*

| | | | |
|---|----|---|---|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | | |



What is a Program?



What is a Program?

A Program is a list of instructions you create to tell a computer what to do.





What is a Repeat Loop?



What is a Repeat Loop?

A Repeat Loop repeats any block or blocks you put inside it, as many times as you say.





What is Code Efficiency?



What is Code Efficiency?

Use as few blocks as possible to solve the puzzle (just 5 for this puzzle).

...rey, that means you can't delete
...t repeats 3 times. Try putting th
...ove, move, turn.

Workspace: 2 / 5 blocks

run

at 3 times



There are no Mistakes in
Coding!



There are no Mistakes in Coding!

If your code doesn't work, no problem! Find out why and fix it! It's called "debugging."

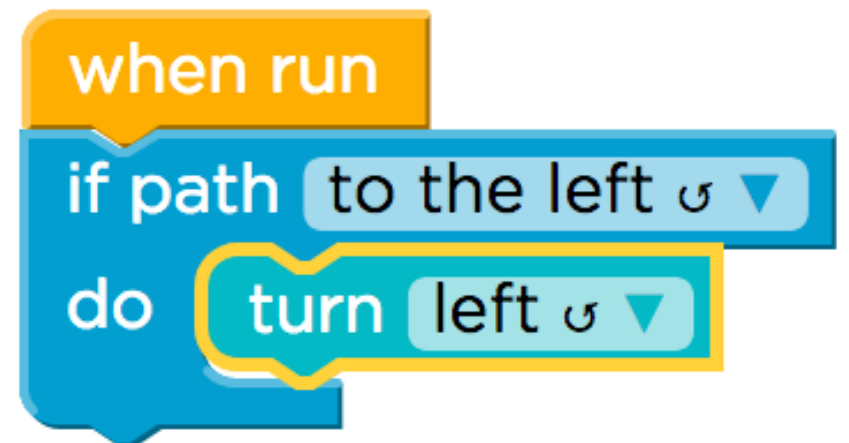


What is a Conditional?



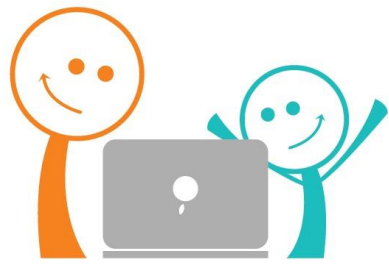
What is a Conditional?

An “if-then” statement in your code. Conditionals let your code see and react.



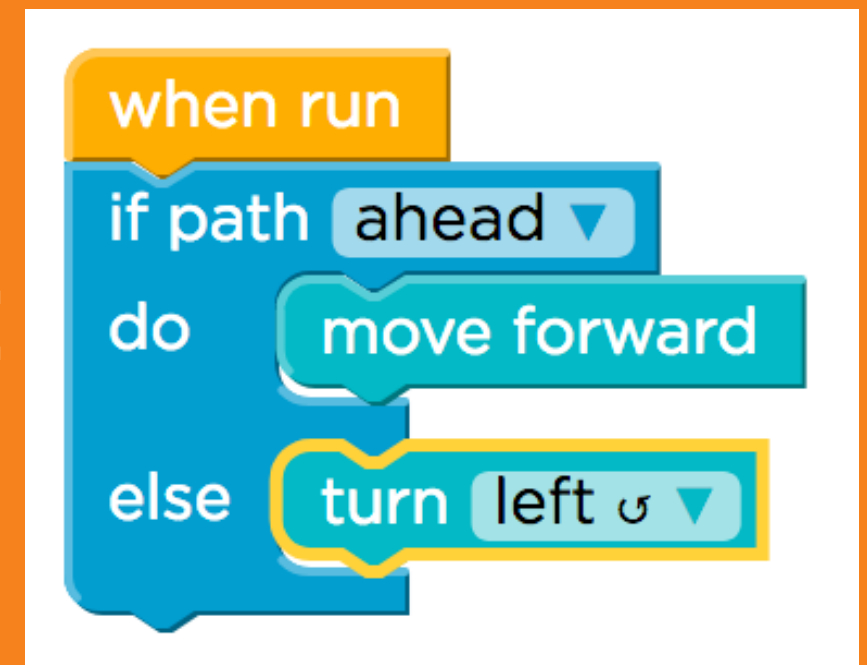


What is an If-Else Statement?



What is an If-Else Statement?

An “if-else” statement makes conditionals smarter: if one thing, do this; if not, do something else.





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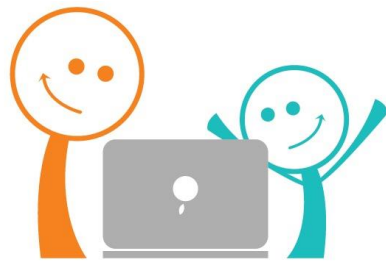
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Code On at Home! Keep Your Program Card!

Take your Program Card
home. Continue from where
you left off tonight!



Code On at Home!



1. Continue Tonight's Program

Take home your Program Card, and pick up right where you left off tonight! Start at www.FamilyCodeNight.org/Start, click link to go to first puzzle, then navigate to your next puzzle using the line of white dots (top center of each puzzle). Finish "The Maze" puzzles, then tackle "The Artist" at www.FamilyCodeNight.org/StartArtist.

2. Do the Other "Hours of Code"

There are lots more fun Hour of Code programs from Code.org you can do at home or at school. Play and code with

Moana, Minecraft, Star Wars, Frozen and many others. It's great fun, and you'll learn new coding every step of the way! Do them all! Find them at <https://code.org/learn>. If you like, you can create your own account – there's always more to learn there.



3. Google's Made With Code, MIT's Scratch

Made With Code. There's a world of fun coding projects at Google's Made With Code. Our favorite is "Build a Yeti" (you get to build your own big hairy dancing monster!). Find it here: <https://www.madewithcode.com/projects/animation>. (Click the "Projects" link, upper right, to see other fun Made With Code Projects.)



Scratch. For older kids ready for the next step, check out MIT's Scratch programming language for kids. With Scratch, you create a free online

account at MIT, then program your own apps, games, stories, animations and more. You can even publish your creations so anyone can see and play with them. It's all at <https://scratch.mit.edu/>. Click "Join" to set up your account, then explore what's there (one way to learn: click Create, then click the "Tips" menu, upper left, to learn the basics of this great language).



4. Top 10 Ways Families Can Encourage Girls' Interest in Computing (from the National Center for Women & Information Technology)

A great summary of family ideas and fun projects (good for boys too!). Find it here:

<https://www.ncwit.org/resources/top-10-ways-families-can-encourage-girls-interest-computing>



Code On at Home!

This Flyer shows you how.



HOME ABOUT BUZZ FAQ CONTACT KIDS & PARENTS SAY... GET STARTED

CLICK HERE FOR FIRST PUZZLE

Featuring Hour of Code Puzzles from Code.org

Plus: If you finish early: [Click Here](#) to go the "The Artist"

...AFTER FAMILY CODE NIGHT...

CLICK HERE: "FAMILY FUN STUFF!"

HOME ABOUT BUZZ FAQ CONTACT KIDS & PARENTS SAY... GET STARTED

FAMILY FUN STUFF!

CLICK TO DOWNLOAD ANY FAMILY CODE NIGHT RESOURCES. THEN SIGN UP BELOW TO GET MORE!

Be sure to join our email list. Lots more free kids' Coding stuff to come! (we never share, never spam)

Email

Code On at Home!

Free Coding Play at Home!

Your Family Code Night "Big Ideas"

6 "Big Ideas" for Kids in Coding

Affordable Internet

Subsidized Broadband Services

Code On Off-Line!

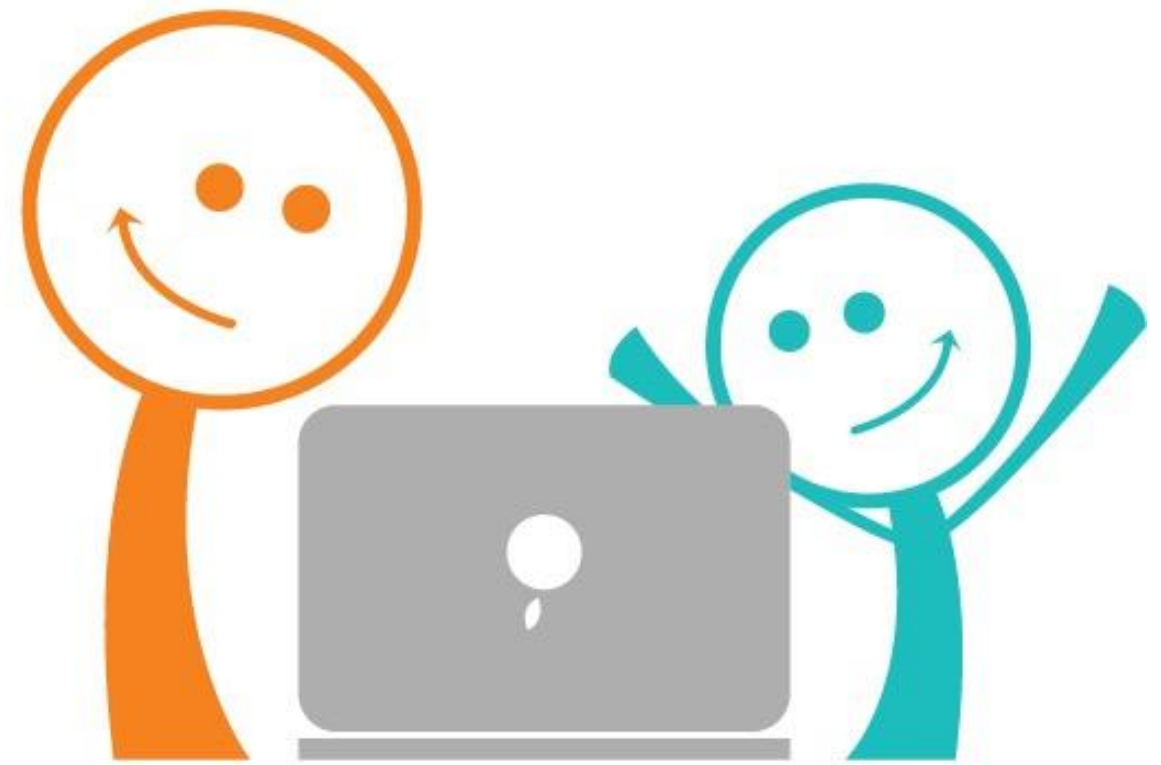
Learn coding without a computer

Instrucciones Traducidas

Code On at School!

Free resources for your school

FAMILY CODE NIGHT™



Code On!
And Thanks for Coming



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