



SCRATCH CURRICULUM

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SCRATCH INTRO

Get an idea about creating games & animations. Learn to code and create move, turn and scale animations.



CLICKER GAME

Get introduced to variables. Learn to create a game with score and time.



SPACE STORY

How to switch a backdrop to create an animation? How to create a conversation between sprites?



CHASE GAME

How to control sprites using keyboard keys?
What is a condition? What is broadcast?



GREETING CARD

How to create your own backdrop?
Learn to control sprites using mouse.



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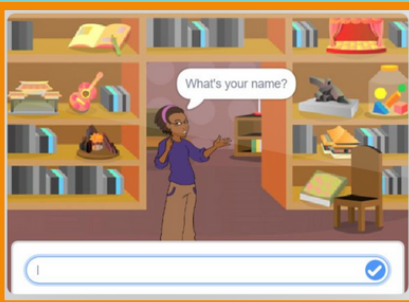
MOTION ANIMATION

How to make jumping animation?
How to create a walking animation?



MUSIC & DANCE PARTY

Learn to play musical notes by using your keyboard keys. Make your sprites dance to different music.



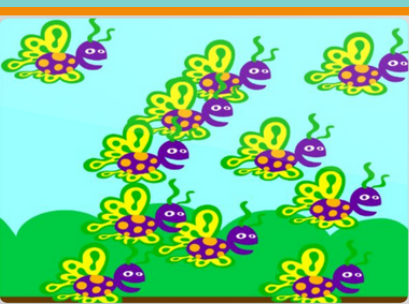
ASK AND WAIT

How can a sprite ask a question?
Where are the answers stored?



DODGE BALL

What are the different kinds of loops?
How to set a random position for a sprite with certain conditions?



CLONING

How to create multiple copies of a sprite by cloning method? What are the uses of cloning blocks?



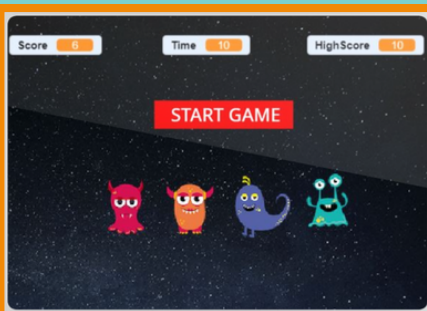
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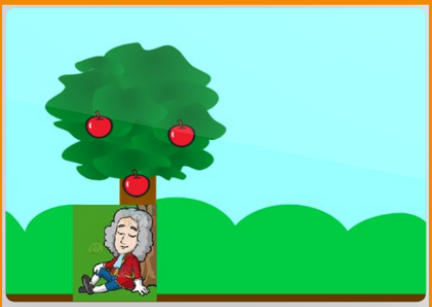
SNOWFALL EFFECT

How to make all clones do the same action? How to create an animation without an end?



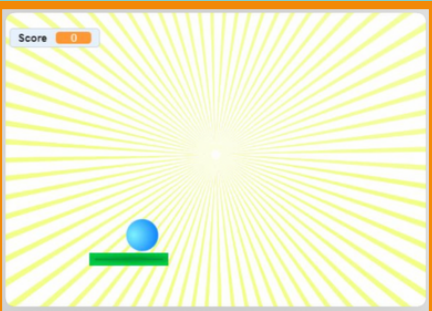
MONSTER POP

Start your game with the play button. How to create high score for your game?



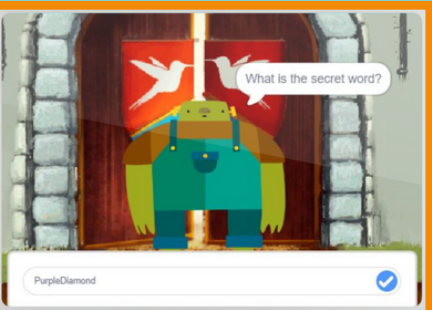
NEWTON'S GRAVITY

Difference between wait until & repeat until block.
Difference between say & think block.



PONG GAME

What is an angle? How is it useful in creating games? How to control your sprite using mouse?



SECRET WORD

How do you use if else? ? Create a password & store it. Type the correct password to discover the diamond.



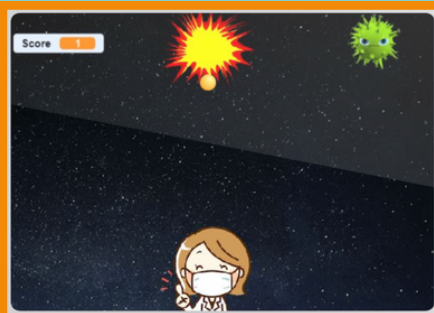
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VIDEO SENSING

Create small games and animations using video sensing extension.



CORONA SHOOTER

Create your first shooting game. Learn to broadcast multiple messages between sprites.



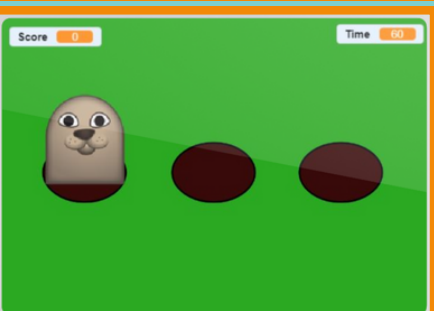
BALL ANIMATIONS

Have fun in creating basketball, beachball, baseball animations & know more about angles.



PEN TOOL

Draw with your sprites.
How to create colourful patterns of different shapes?



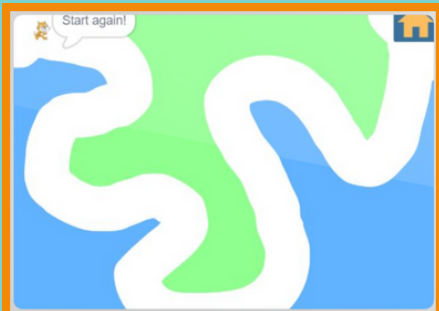
WHACK A MOLE

How to generate a random number? How to increase the difficulty level of the game as the score increases using 'mod' block?



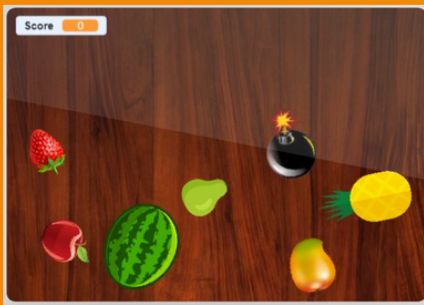
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MAZE & TUNNEL

How to use 'if else' condition based on the colour a sprite touches? Navigate a sprite through a maze and a tunnel.



FRUIT SLICE

Make sprites move in random directions with different speeds and slice through the flying fruits while avoiding the bomb.



GRAPHIC EFFECTS

Explore different graphic effects available in scratch and create magical effects using a sprite.



TWO PLAYER RACE

How to use timer block in race game? How to control sprites with two different keys?



CATCH THE STARS

How to control sprites with video motion? How to assign a random speed for every star?



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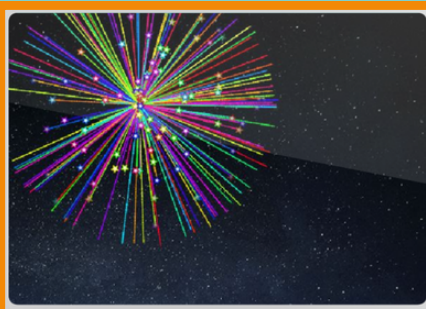
PEN TOOL EXTENDED

Create a spinning spiral. Control line width using loudness. How to create new blocks for a sprite?



FISHING

Draw your own net sprite. How to position it to follow another sprite? What is a logical operator?



FIREWORKS

How to create a curvy explosion lines? How to get the sparkling effect?



GATHER APPLES

What is code reusability concept? How is it helpful in creating games?



SCROLLING BG

Explore the math and logic behind scrolling backgrounds. Make a background scroll infinitely.



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DINO RUN

Create a google dino game. Learn to incorporate scrolling background in games.



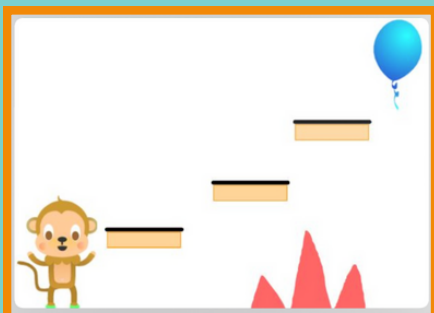
PIXEL ART

Learn to create digital art. What is the use of bitmap editor? What are the steps to create pixel art?



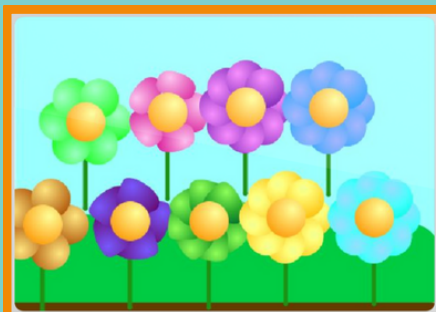
TANK SHOOTER

Create asteroid pixel art & use it in your game. How to center the laser emission from the tank?



PLATFORM GAME

What are the basics of creating a platform game? What is 'not' operator?



FLOWER PATTERN

Create colourful flowers with stem. Explore My blocks with inputs.



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ANIMAL CATCHER

Drag animals by using your palm and trap them in the net. What is the round block & how is it useful?



SNAKE GAME

How to increase the length of snake ?
How to create the crawling effect for the snake?



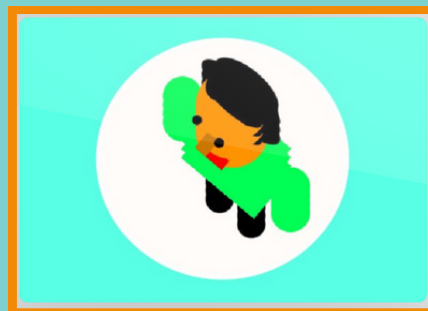
FRACTAL DRAWINGS

What is a fractal pattern? How do fractals work?
Learn to create fractal snowflake and tree.



SIMON SAYS

What is a list? How to store a list?
How to use various blocks from list category?



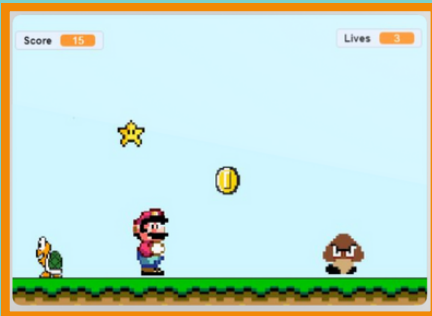
3D ANIMATIONS

How does the stamp block help in 3D animation?
Learn to create 3D shapes & 3D sprites.



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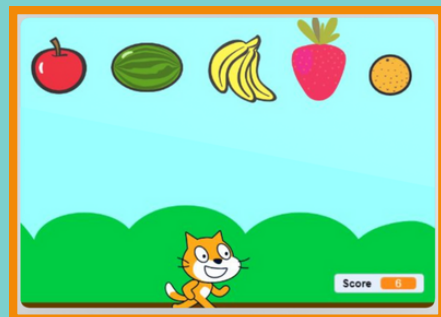
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SUPER MARIO

How can a variable be helpful in controlling sprites?

How to give shield power to mario?



PICK THE FRUIT

What is the length of the list? What is the index value? How to store an item temporarily in a list?



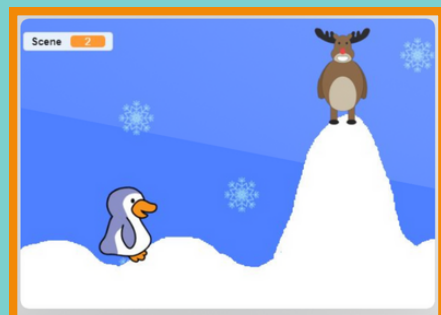
SWING COPTER

Navigate a copter through a series of swinging gates. How to change the copter speed and direction with a single key?



QUEST GAME

Embark on an epic adventure in the quest game. Complete missions and face challenges along the way.



PENGUIN IN SNOWLAND

What is a scene change?

How to make your sprite enter the next backdrop?



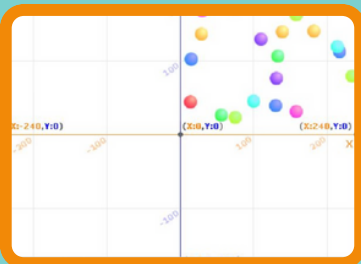
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SUBWAY SURFERS

Learn more about logical operators. Dash through subway tracks, dodge obstacles, and collect coins.



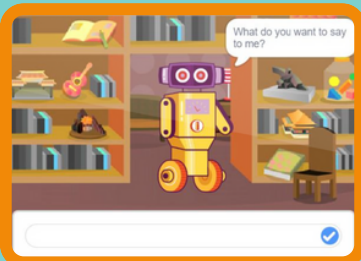
QUADRANTS

What are quadrants? How to clone balls and position them in a quadrant?



CO-ORDINATES

Discover valuable treasures buried in unexpected places and learn about co-ordinates along the way.



CHATBOT

What is a conversational robot? How does it work? Learn to create a basic animated chatbot.



PACMAN

Learn to use multiple logical operators in a single condition & control the direction of the pacman.