Introducing Programming

iCompute

Scratch Jr

Decomposition

Pattern Recognition

Abstraction

Logic

Algorithms
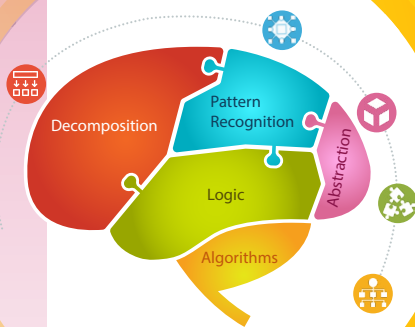
iCompute

PRIMARY COMPUTING

iCompute
www.icompute-uk.com

Computing

Scratch Jr

The activities in this booklet are aimed at children aged 5-7 to learn programming at home with Scratch Jr. Scratch Jr can be used on computers, chromebooks, iPads and tablets.

Scratch Jr iPad app:

http://icomp.site/scratch-jr

Scratch Jr for Android :

http://icomp.site/android-scratch-jr

Scratch Jr Desktop Versions:

https://icomp.site/scratch-jr-desktop

Scratch Jr Chromebook:

https://icomp.site/scratch-jr-chrome

Can I Make My Characters Dance?

1. Choose Background

New Background   OK

2. Choose Characters

New Character   OK

New Character   OK

Cat

Delete the cat (press and hold)

3. Move Characters to Start Places
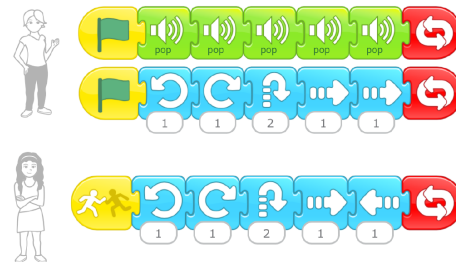
Position the characters by dragging them from the center of the screen
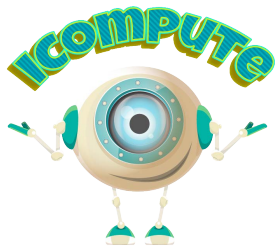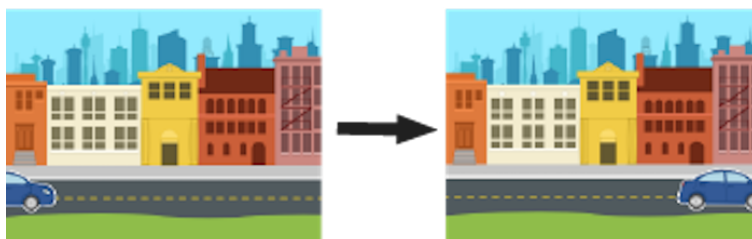
4. Make Programs

- Can you make other things happen when one character touches another? Try the disappear block!
- How can you use the speed block to change how the characters move?

Can I Make My Car Drive Across the City?

1. Choose Background

New Background

OK

2. Choose Character
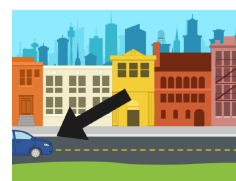
New Character

OK

Cat

Delete the cat (press and hold)

3. Resize Character and Move to Start Place

Shrink

Drag the car to the bottom corner of the screen
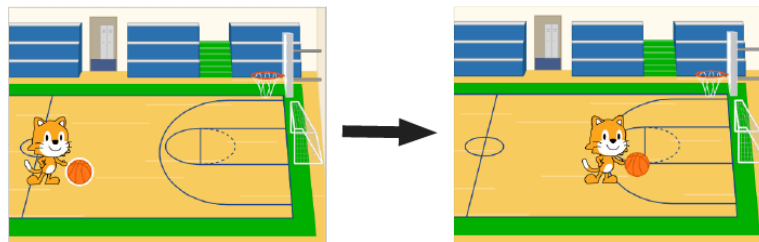
4. Make Programs

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Grid On/Off

Use the grid to calculate how many blocks the car should move

- How would you make the car go only halfway across the screen?
- What would happen if a wizard, a dragon, or an elephant appeared on the sidewalk?

Can I Make My Character Dribble a Basketball?

1. Choose Background

New
Background

OK

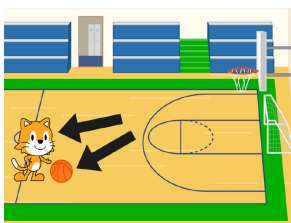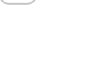## 2. Choose Additional Character

New
Character
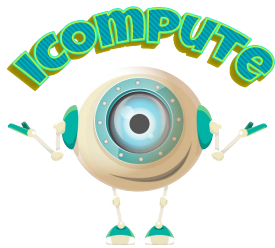
OK

3. Move Characters to Start Places

Position the characters by dragging them from the center of the screen

4. Make Programs

- Can you make the cat shoot the ball into the basket?
- What else can you make with two characters moving at the same time?

Can I Make My Characters Talk?

1. Choose Background

New
Background

OK

2. Choose Four Characters

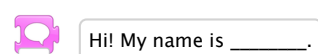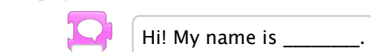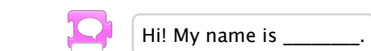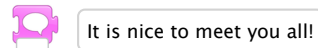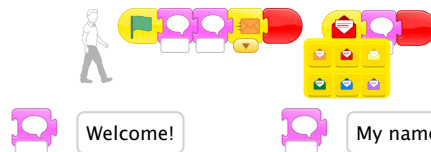New Character

OK

Then choose three more, like:

Delete the cat (press and hold)

3. Move Characters to Start Places

Position the characters by dragging them from the center of the screen

4. Make Programs

Welcome!

My name is Mr. Smith.

It is nice to meet you all!

Hi! My name is _____.

Hi! My name is _____.

Hi! My name is _____.

Hi! My name is _____.

- Can you add movement to this scene?
- Now that you can send messages from one character to another, can you make a relay race?

Can I Make the Sun Set?

1. Choose Background

New Background

OK

2. Choose Character

New Character

OK

Cat

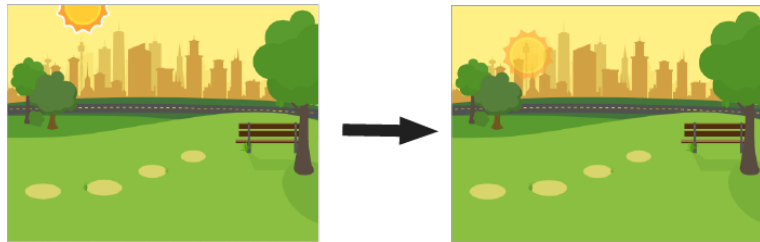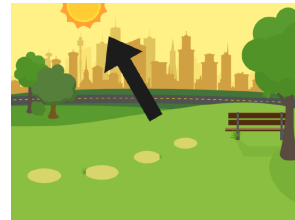Delete the cat (press and hold)

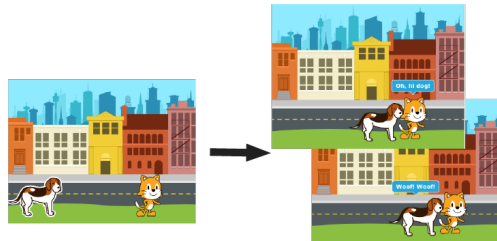## 3. Move Character to Start Place

Position the sun by dragging it from the center of the screen

4. Make Program

- Can you add some animals to live in this park?
- Can you make the animals disappear when the sun sets?

Can I Make My Characters Greet Each Other?

SCRATCH Jr

1. Choose Background

New
Background

OK

2. Choose Additional Character

New
Character

OK

3. Move Characters to Start Places

Position the characters by dragging them from the center of the screen

4. Make Programs

Oh, hi dog!

Woof! Woof!

- Why do you think the program repeats forever?
- What could you change to have the program not repeat forever?

Can I Make the Moon Rise after the Sun Sets?

1. Choose Project

Sunset

2. Add a New Page and add Moon Character to New Page

New Page

New Character

OK

Delete the cat (press and hold)

3. Choose Background; Edit to Remove Background's Moon

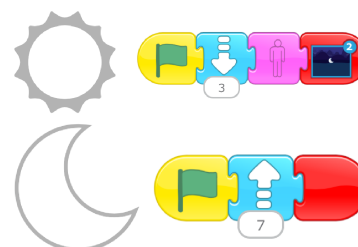New Background

Edit

Cut
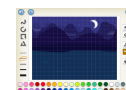
Select the "Cut" tool, and then tap the moon to delete it

OK

4. Change Program on Page 1; Make Program on Page 2

- Now that you know how to make new pages, can you make a project that has 3 pages, or 4 pages?
- What happens when you drag a character from one page to another?

Can I Make a Spooky Forest?

scratch jr

A Spooky Forest

1. Choose Background

New Background   OK

2. Choose Characters

New Character   OK

New Character   OK

New Character   OK

Cat

Delete the cat (press and hold)

3. Write a Title and Change Color

Add Text   **A Spooky Forest**

Select Color

4. Make Programs

- Can you make the bat spin all the way around in a circle?
- Add your own characters to make your own spooky scene!