This project uses the Scratch programming language.

SCRATCH

CODING CLUB
A place to code and create

The coding club is your place to learn and develop coding skills. We've created these pages with the Raspberry Pi Foundation to provide loads of projects, from building games to designing animations.
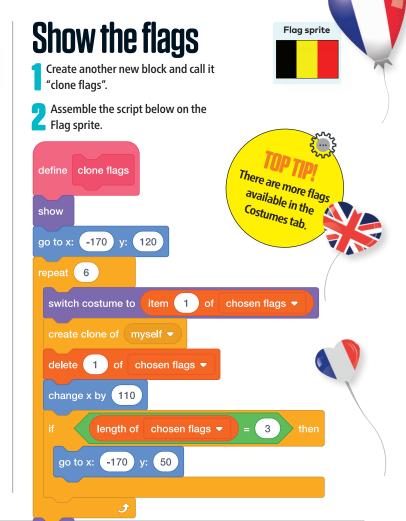
Make a guess-the-flag game

Quiz your friends and family.

Choose random flags

Flag sprite

1 Open a new Scratch project at rpf.io/guess-the-flag-sn. In Variables (far left pane), click on the Make a List button. Call your new list "chosen flags". Then, make a new variable called "flag number".

2 In My Blocks, click on the Make a Block button. Call it "choose random flag". Now, on your Flag sprite build the script below. Make sure that this script is separate from the flag list script that's already on the coding pane.

```
define  choose random flag

set  flag number ▾
to  pick random  1  to  length of  flags ▾

add  item  flag number  of  flags ▾
to  chosen flags ▾

delete  flag number  of  flags ▾
```

Show the flags

Flag sprite

1 Create another new block and call it "clone flags".

2 Assemble the script below on the Flag sprite.

```
define  clone flags

show

go to x:  -170  y:  120

repeat  6
  switch costume to  item  1  of  chosen flags ▾
  create clone of  myself ▾
  delete  1  of  chosen flags ▾
  change x by  110
  if  length of  chosen flags ▾  =  3  then
    go to x:  -170  y:  50

hide
```

TOP TIP! There are more flags available in the Costumes tab.

Question and answer

Flag sprite **Abby sprite**

1 On the Flag sprite, add more coding blocks under the green flag "hat block" to build the first script (right). Then make the next script (far right). You'll need to create a new variable, a new block and a new message to broadcast.

2 Create a new sprite called Abby and build the final script (bottom right). Click on the green flag to test your game. Have fun!

```
when 🏳 clicked

create a flag list

delete all of  chosen flags ▾

repeat  6
  choose random flag
```

```
set  correct answer ▾  to  item  pick random  1  to  length of  chosen flags ▾  of  chosen flags ▾

clone flags

broadcast  announce country ▾
```

TOP TIP! Make sure all your lists and variables are unticked.

```
when I receive  announce country ▾

go to x:  170  y:  -25

say  join  click on  correct answer  for  2  second
```

```
when this sprite clicked

if  costume  name ▾  =  correct answer  then
  say  Correct  for  2  seconds
else
  say  Sorry, that was wrong  for  2  seconds
```

The Raspberry Pi Foundation is a UK-based charity with the mission to enable young people to realise their full potential through the power of computing and digital technologies. Discover more step-by-step coding projects at rpf.io/scienceandnature

Raspberry Pi Foundation

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