







SUSHI-WHOSHI?

Using These Cards (2)

WHAT IS IT?

"Scratch Wasabi" are a series of "ingredients" cards which display the basics of Scratch in an easy to understand format. They are designed to help young coders get started with creating their own Scratch projects – especially games!

We've chosen some of the most common components we use and put them together in a way that we hope lets coders "pick and mix" what they want in their own project. For example you might want to think about how you want to control a sprite ... Using the keyboard?? Using the mouse?? Moving randomly with a Script?? How do you want to control the game ... against the clock?? keeping time?? pausing?? ... and so on ...

These cards were inspired by the excellent HTML Sushi Cards originally developed by CoderDojo Bray (and available on kata.coderdojo.com). Like the HTML Sushi we'd suggest these A4 sheets are printed out double-sided (or back-to-back) and then laminated for easy re-use! There are also a series of A5 cards which contain the individual components on these sheets.

For each component we've also created an example Scratch project file in our studio which you can find on the scratch.mit.edu website – here you can see the individual elements in action!

In future versions we're going to add more elements and also provide some example "recipe" projects which bring these elements together to create full blown Scratch games! We really hope you find these useful and enjoy creating your own projects!

Ninja TC & Ginger Ninja ... aka Ginglexia!



@ginglexia

WHY SCRATCH v1.4?

We've deliberately chosen to present Wasabi using Scratch v1.4!

- It's still the most commonly used version in
- It comes with most Raspberry Pi Operating Systems!
- (We're currently working on a Wasabi sheet to show the differences with v2 ... watch this space...)

WHY JUST PICTURES?

We've tried to use a few words as possible!

- To make it more accessible to younger coders!
- To make translation easier!
- To make it more accessible to children with Dyslexia and other learning challenges!
- To help young coders teach others with some simple content!

WASABI

"nuclear horseradish" (urbandictionary.com)

"really hot stuff" (ginglexia!)



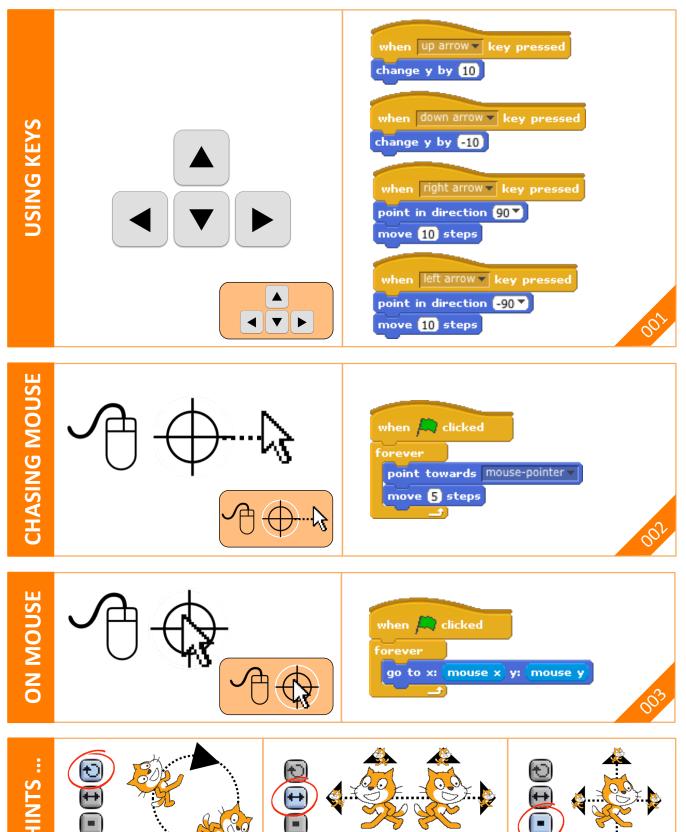






MOVE ME!...

Controlling Sprites (1)



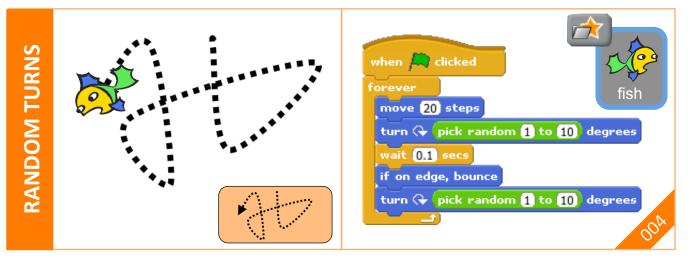


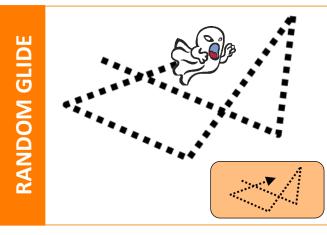


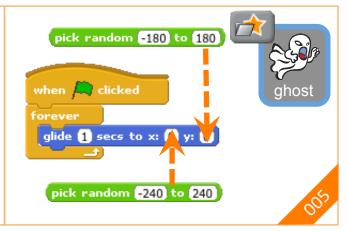


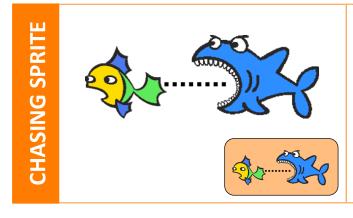
MOVE ME!...

Controlling Sprites (2)







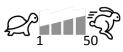




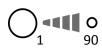




















READY, AIM, GOTCHA!...

Shooting, Clicking & Eating Sprites (1)









READY, AIM, GOTCHA!...

Shooting, Clicking & Eating Sprites (2)

```
when clicked

forever

glide 1 secs to x: pick random 240 to 240 y: pick random -180 to 180

when clicked

go to front

forever

go to x: mouse x y: mouse y

if mouse down? and touching ghost ?

say Hitl for 0.5 secs

if mouse down? and not touching ghost ?

say Miss! for 0.5 secs
```

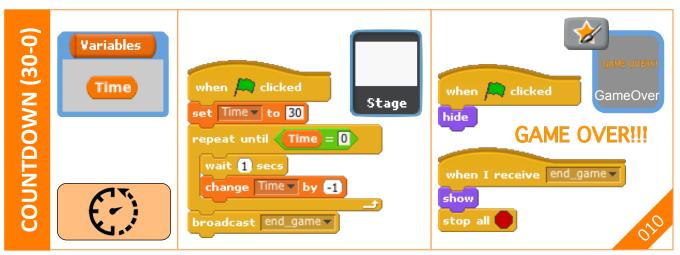
```
when 🦱 clicked
when 🦱 clicked
                                                                                    shark
                                             switch to costume | shark1-a ▼
show
                                             forever if distance to mouse-pointer > 10
 move 20 steps
                                               point towards mouse-pointer
  wait (0.5) secs
                                               move (5) steps
 turn 🗣 pick random 1 to 10 degrees
 if on edge, bounce
                                                                                 Costumes
                                             when I receive got_me▼
  turn 🗣 pick random 1 to 🚺 degrees
                                             repeat 2
      touching Shark ▼ ?
                                                                                  shark1-a
                                              switch to costume Shark1-b -
   broadcast got_me▼
                                              wait 0.1 secs
   hide
                pick random (-240) to (240)
                                              switch to costume | Shark1-a >
   wait 1 se/:
   go to x: 🚙 y:
   show
                 pick random (-180) to (180)
```



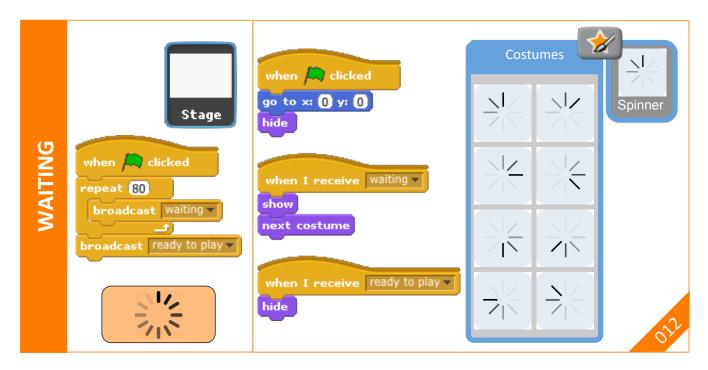




3, 2, 1!... Countdowns & Timers (1)



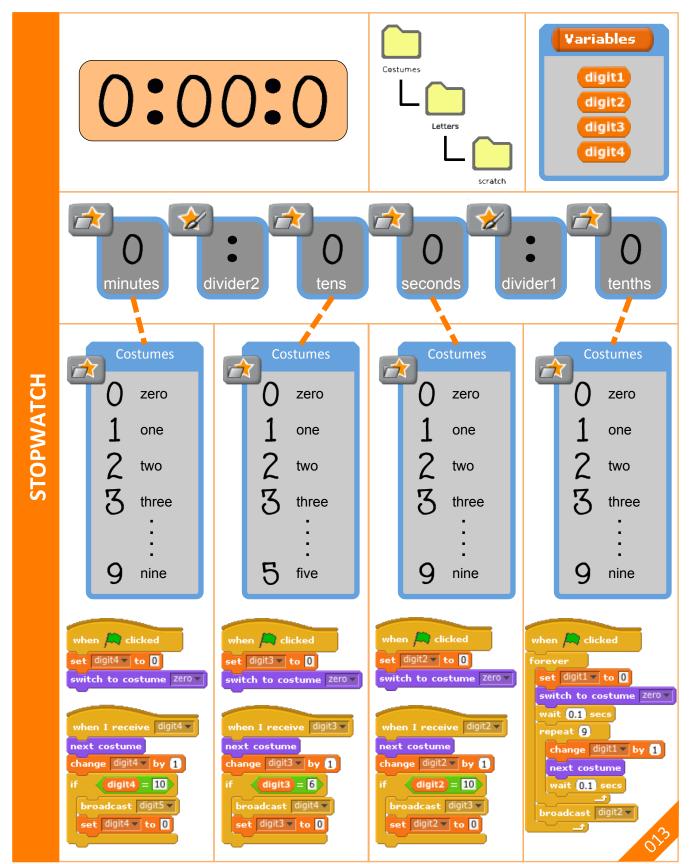
```
Variables
COUNTUP (0-30)
           Time
                          when 🦱 clicked
                                                             when 🦱 clicked
                                                                                   GameOver
                                                  Stage
                         set Time ▼ to 0
                                                                        GAME OVER!!!
                         repeat until (Time = 30)
                           wait 1 secs
                                                             when I receive end_game▼
                           change Time by 1
                                                             show
                         broadcast end_game▼
                                                             stop all
```







3, 2, 1!... Countdowns & Timers (2)



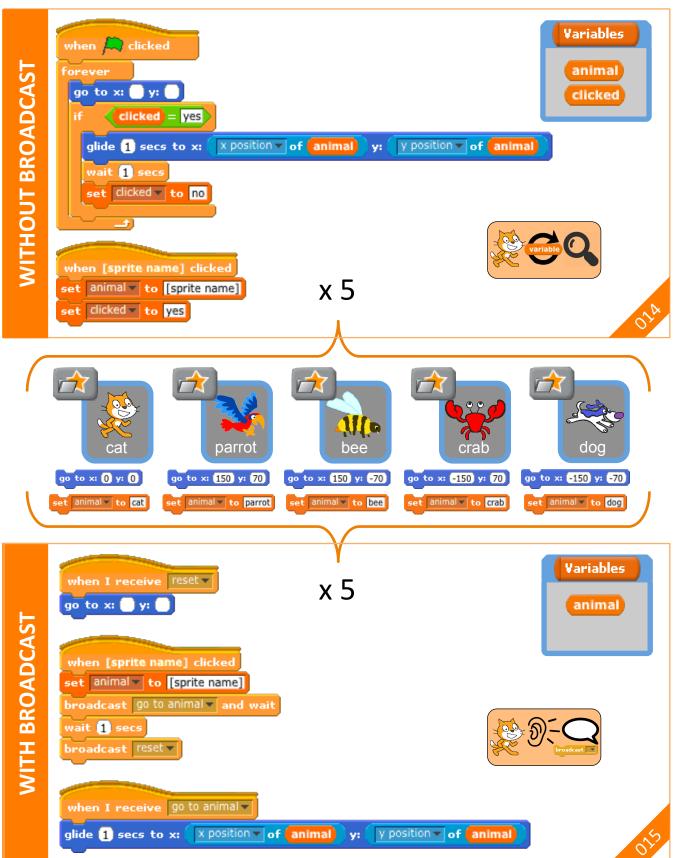






CALLING ALL NINJAS!...

Broadcast & Direction (1)



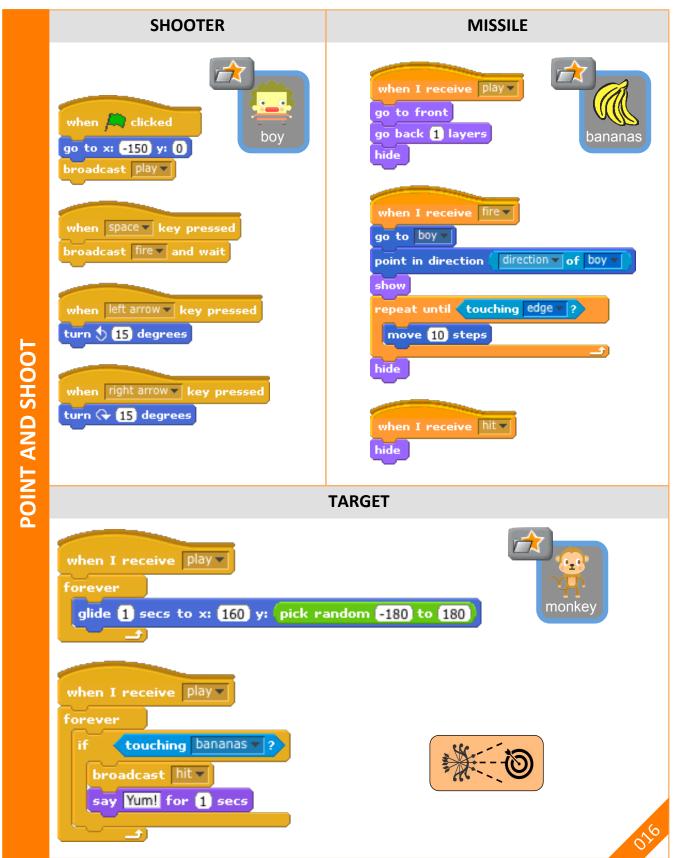






CALLING ALL NINJAS!...

Broadcast & Direction (2)





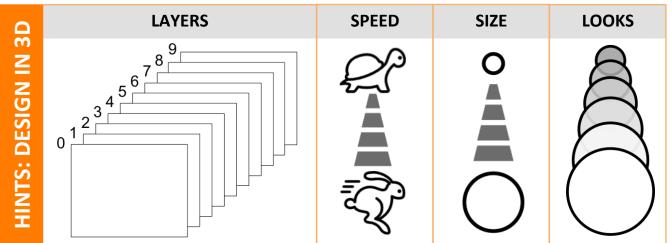


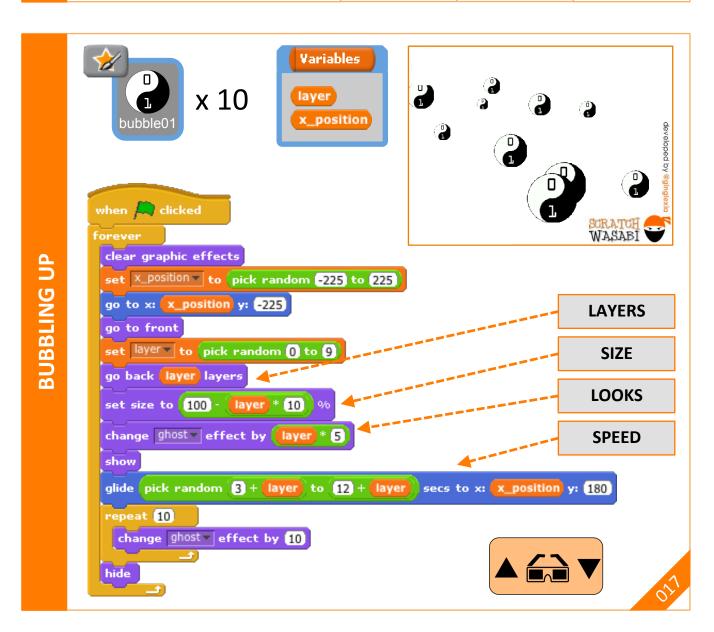




用 NO GLASSES REQUIRED!...

Developing Projects in 3D (1)





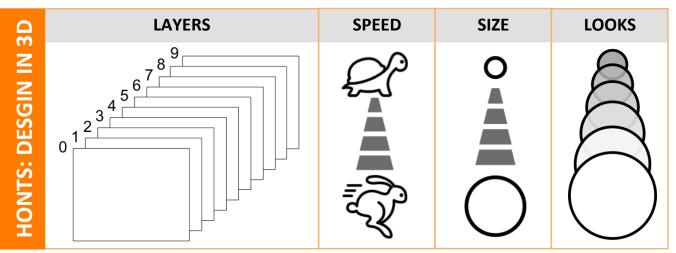


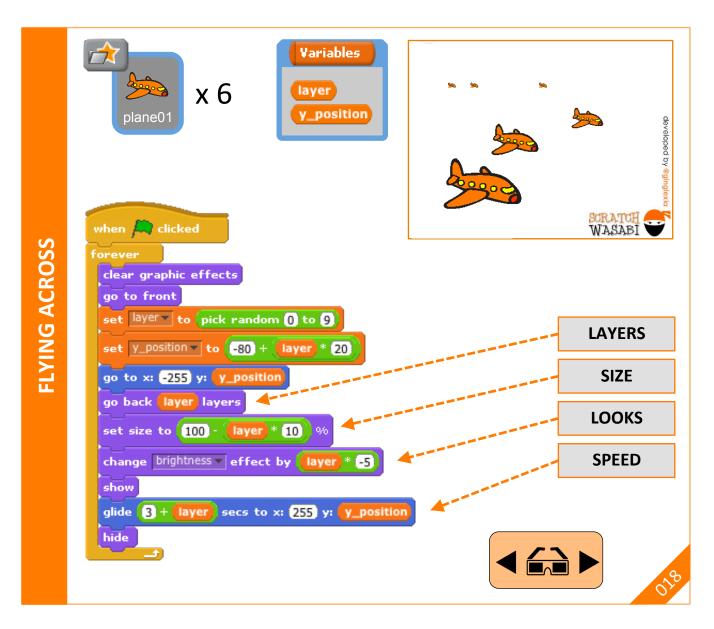




어를 NO GLASSES REQUIRED!...

Developing Projects in 3D (2)





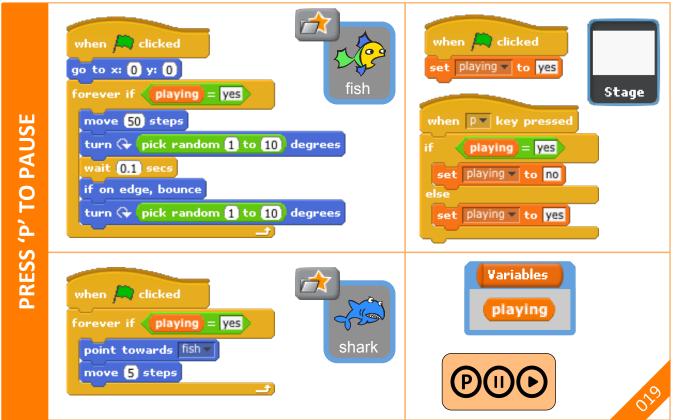


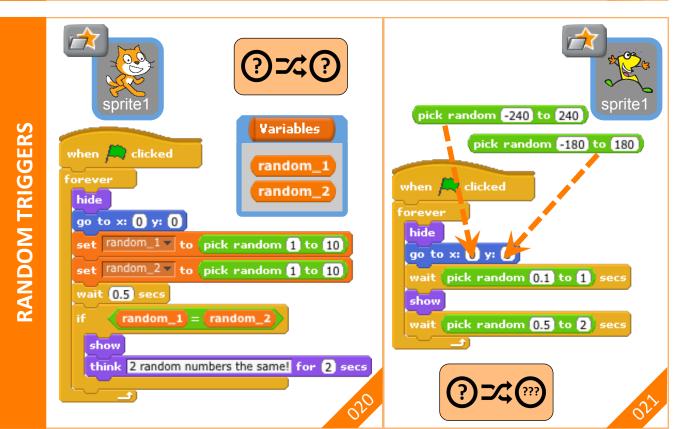




SAMURAI & SENSAI!...

Advanced Elements (1)





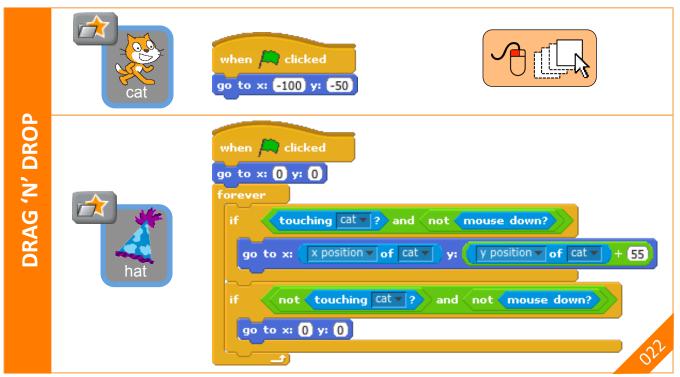






SAMURAI & SENSAI!...

Advanced Elements (2)



```
when clicked
set control to keys

Stage

when c key pressed

if control keys

set control to mouse
else
set control to keys

Variables

control
```

```
when clicked

forever

if control = keys

if key right arrow pressed?

change x by 10

if key left arrow pressed?

change x by -10

if key up arrow pressed?

change y by 10

if key down arrow pressed?

change y by -10

if control = mouse

set x to mouse x

set y to mouse y
```

