YOU CAN CODE REAL APPS THAT WORK ON GADGETS LIKE PHONES AND TABLETS!

HOW TO BITSBOX

1 FIND A COMPUTER WITH A PHYSICAL KEYBOARD.

The coding part of Bitsbox isn't meant to be done on tablets just yet.

2 OPEN A WEB BROWSER.

We recommend Chrome, Firefox, Safari or Internet Explorer 11.

3 GO TO BITSBOX.COM/CODE

Have fun!

YOU CAN RUN YOUR APPS ON A REAL PHONE!

Before you do these steps, install a QR reader app on your gadget.
Go here for a couple of suggestions: **bitsbox.com/QRapps**

1 On a computer, open the Bitsbox app you built.

2 Click the sharing icon ⤳ in the corner of the screen.

3 Scan the QR code on the screen with your gadget.

ATTENTION GROWNUPS!
You can read all about kids and coding with Bitsbox at **bitsbox.com/blog**

QR codes look just like this!

MINI APPS
TO GET YOU STARTED

4 4 9 7 FIRE MONSTER

```
1  fill('lava planet')
2  stamp('monster23')
3  sound('wooyah')
```

Can you change the sound to **'peekaboo'**?

1 1 4 5 SNACKS PLEASE!

```
1  stamp('monster23',400,700)
2  text('Have any snacks?',250,400,'red')
```

Can you change what the monster says?

3 4 2 9 HOT STUFF

```
1  stamp('monster23').tap = burn
2  song('heavy')
```

Can you make the monster dance instead?

WANT MORE STAMPS & FILLS & SOUNDS & SONGS?

Click the Library icon 🗂 when you're coding!

bitsbox

code these apps at bitsbox.com

6 3 4 0

CHICKEN CHATTER

CHICKENS SAY THE CRAZIEST THINGS.

bitsbox

code this app at bitsbox.com

PART 1 — ADD A BACKGROUND AND TWO CHARACTERS!

```
1  fill('conversation')
2  stamp('chicken6',250,750)
3  stamp('chicken7',550,750)
```

HINT
You can click **Play** to run your app after typing each line of code.

PART 2 — MAKE TEXT APPEAR ON THE SCREEN!

```
4  text('Why did the cow cross the road?',100,100)
5  text('Why?',100,200)
6  text('To get to the UDDER side!',100,300)
```

MORE POULTRY, PLEASE.

Can you swap in other chickens and change what they're saying?
Please write something more hilarious than this lame cow joke.

Extra bonus points if you can add more lines of dialog.
HINT: The numbers on lines 4–6 place the text precisely.

chicken8   chicken9   chicken10   chicken11   chicken12
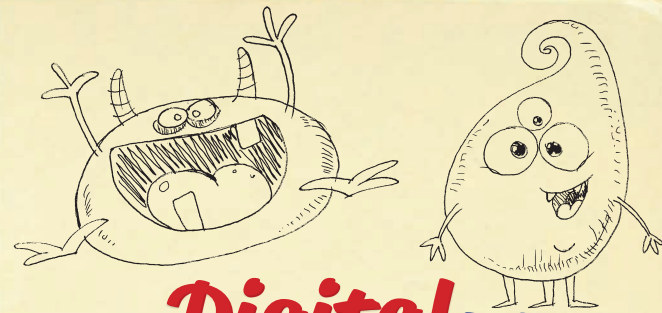
chicken13   chicken14   chicken15   chicken16   chicken5

Digital Doodle BOOK

CODE YOUR OWN SUPERCOOL DRAWING APP!

bitsbox

code this app at bitsbox.com

```
1  fill('notepad')
2  pen = stamp('rocket pen2')
3
4  function drag() {
5      stamp('ink black',x,y,10)
6      pen.move(x,y,100)
7      pen.front()
8  }
```

Line 5 stamps ink wherever you're touching. The ink is 10 pixels wide.

MINI CHALLENGE

Can you change the fill to 'paper'?

HINT: Line 1

SUPER CHALLENGE

Can you change the color of the pen's ink to be red instead of black?

HINT: Try 'ink red'

ULTRA CHALLENGE

Can you make your pen draw fatter lines?

HINT: Line 5

BITSBOX, WE HAVE A PROBLEM.

ROCKET RESCUE

TAP THE SCREWY SPACECRAFT TO CORRECT ITS COURSE!

bitsbox

code this app at bitsbox.com

---

1 Add a sky and a rocket!

```
1  fill('sky')
2  r = stamp('rocket5',200)
```

2 Crazy rocket flight!

```
3  function loop() {
4    stamp('cloud6',r.x,r.y,100)
5    r.move(UP,50)
6    r.rotate(RIGHT,random(360),500)
7  }
8  r.tap = rescue
```

3 Tap the rocket to rescue it!

```
9   function rescue() {
10    loop = null
11    r.rotate(0)
12    r.move(UP,1200,3000)
13    sound('crowd')
14  }
```

HINT
You can click **Play** to run your app between each code section.

MINI CHALLENGE
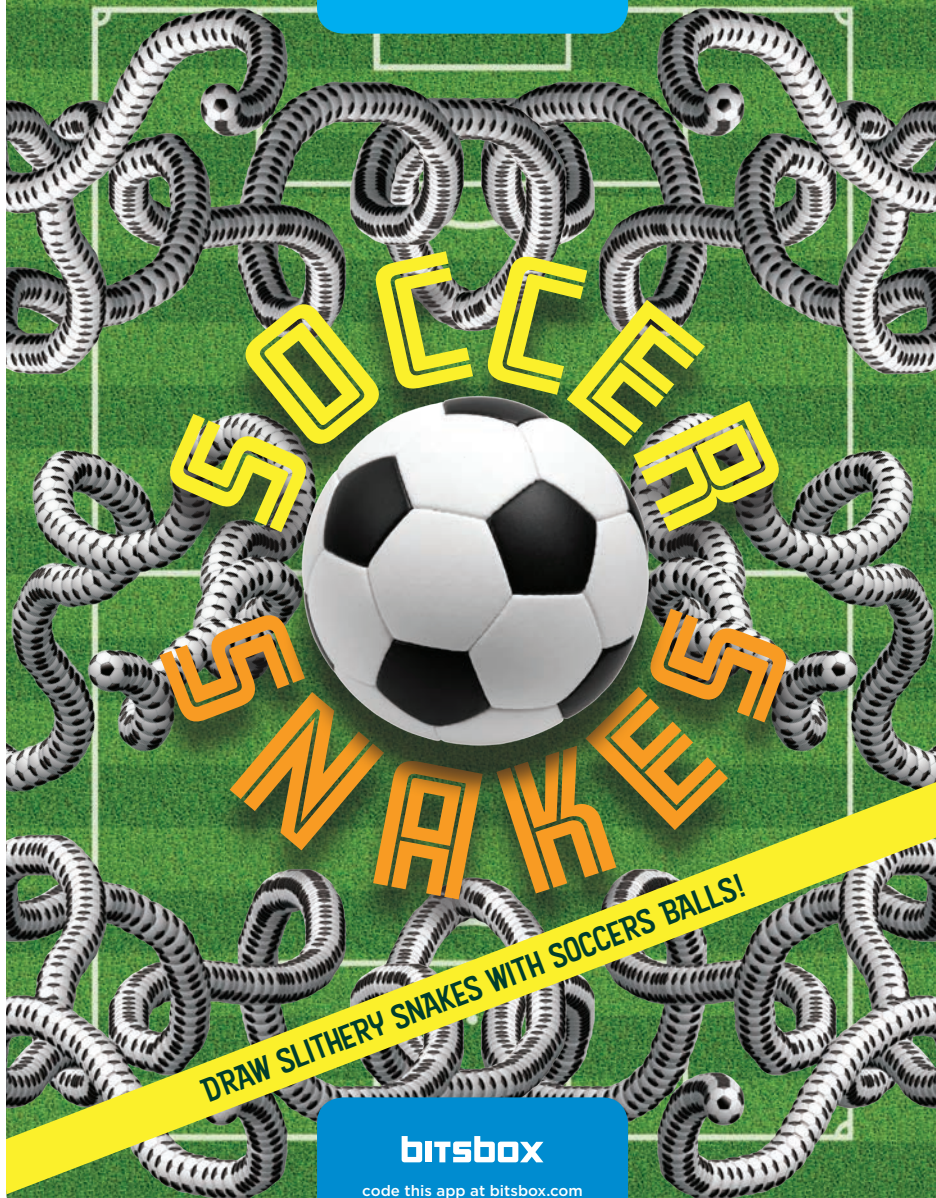Can you put a `rocket pen` in this app?
HINT: Line 2

SUPER CHALLENGE
Can you change the sound to `rocket` ?
HINT: Line 13

2691

CHALLENGE APP!

SOCCER SNAKES

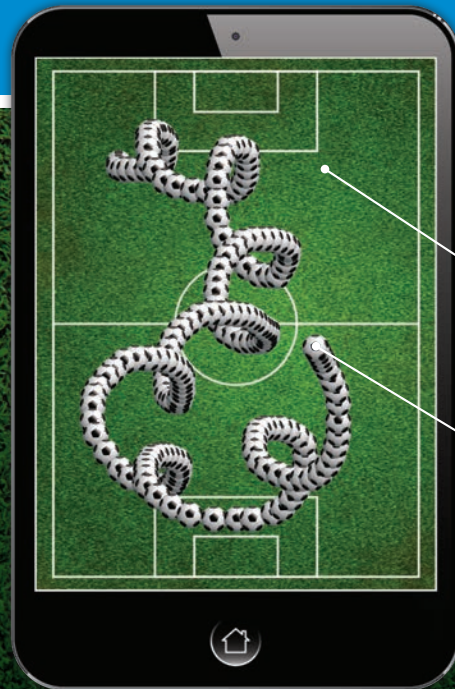DRAW SLITHERY SNAKES WITH SOCCERS BALLS!

bitsbox

code this app at bitsbox.com

Start by creating a new app with this number: 2691

YOU CAN CODE THIS APP YOURSELF!

soccer field

soccer ball

HERE'S HOW YOUR APP SHOULD WORK:
» Fill the screen with the image `'soccer field'`.
» Leave a trail of soccer balls everywhere you drag on the screen.

HINT Look at *Digital Doodle Book* if you're feeling stuck!

EXTRA CREDIT
Can you draw with a basketball instead? HINT: `'ball 10'`

NEED SOME HELP? Create a new app with number 2691

alien4	alien10	astro	banana	bear7
bird6	block4	block12	bomb2	brain2
bug6	bug22	bunny	burger2	candy2
car10	car11	cat7	cookie2	cupcake6
dino	dino pilot	dog9	dog21	fairy

bitsbox

gift2	goat	hamster2	heart4	jetkid
jewel6	lion2	mammoth	mermaid4	monkey4
monster6	monster13	nut ninja	owl2	parrot3
pig6	piranha	pirate2	plane	squirrel5
treasure chest3	truffle7	ufo5	vampire	zombie4

bitsbox