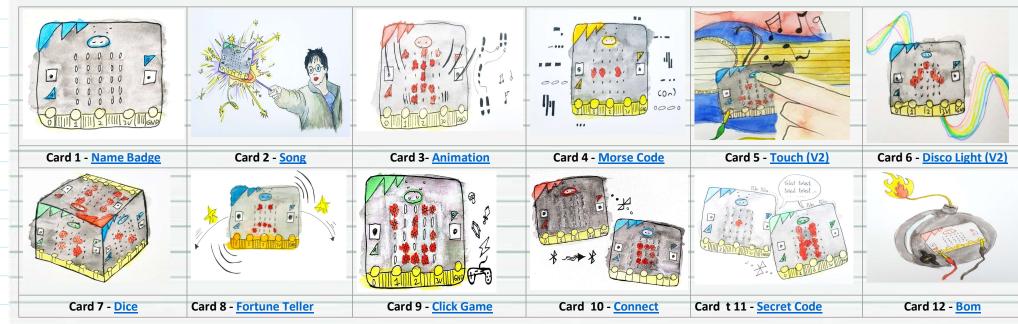
## Content

woensdag 30 juli 2025 22





# www.makecode.com

QuickStart kaarten - januari 2024 - microbit101





QuickStart EN
July 25





## Get to know the micro:bit

zondag 7 januari 2024

20:37

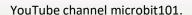
Get to know the BBC micro:bit's features



WHAT? What is a micro:bt?



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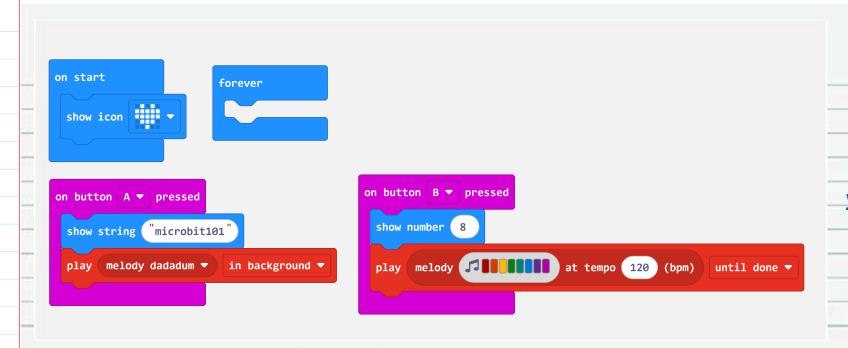
Link to this online OneNote

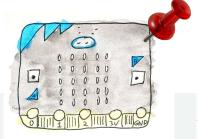
# Card 1 - Name Badge

Link to Code

woensdag 30 juli 2025

22:37





#### WHAT?

You will take the first steps coding the micro:bit. You will put your name and sounds by pressing button A and B.

### www.makecode.com

Downloading Code to micro:bit



EXPLAIN CODE  Drag from Basic; show icon into on Start	TIPS  All the commands fit together as jigsaw puzzles	, 4 ° 6
Drag from Input; on Button A pressed  Drag from Basis; show string into button A pressed	You can delete a piece code with delete, right mouse	MICRO
Drag from Music; play under show string Drag from Input; on Button B pressed Drag from Basic; show number into button B pressed Drag from Music; play melody under show string	EXTRA  Change the name Change the music Choice another icon	Link to Code  QuickStart El
microbit101 : Een doos met n	Try button AB	Link to this online OneNote  July 2025  Eving met alle beschrijvingen.

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## Card 2 - Song

Link to Code

woensdag 30 juli 2025 22:3





#### WHAT?

You will make a littel song, and see how you can use the loop. Or you can make the Harry Potter song.

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EXPLAIN CODE

Delete on start and forever block

Drag from Input; on shake

Drag from Loops; repeat 4 times (change to 2 times)

Drag from Music; play tone

Right mouse; copy play tone, change to middle D etc

Right mouse; copy play tone, change to middle D etc

Drag from Input; on button A pressed

Drag from Music; play tone and make the harry potter song

What happens when you don't use the rest?



Link to Code

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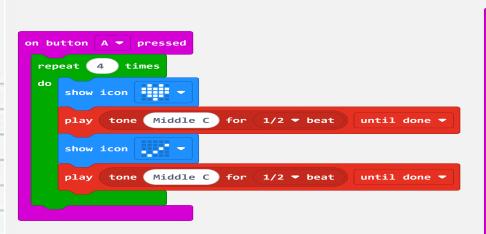
Link to this online OneNote

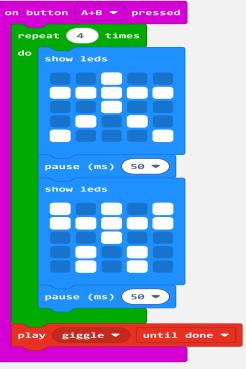


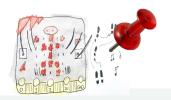
# Card 3 - (Own) Animation

Link to Code

woensdag 30 juli 2025 22:37







#### WHAT?

You will make your own animation (ticking hart) and add sounds. You make your own animation with the block show leds.

### www.makecode.com

EXPLAIN CODE	TIPS	all.
Drag from Input; on button A pressed	50 ms is 0,05 seconds.	PACKOD !
Drag from <b>Loops</b> ; <b>repeat</b> 4 times	Calculation site from milliseconds to seconds	Wid O
Drag from <b>Basic</b> ; show icon (choose hart)		Links Code &
Drag from Music; Play (tone Middel 1/2 beat) Copy the last 2 items (right mouse click) Change the hart for a small hart	EXTRA  Make your own animation with the show leds block.  Add an extra block pause with only 50 ms.  Drag play giggle from the Music blocks under the repeat	QuickStart EN July 2025
	You can also make rain, or a rocket You can use more show leds.  Link to this online ( aterialen om alle 101 projecten om te maken en een online omgeving met alle bes	OneNote -

## Card 4 - Morse Code

Link to Code

woensdag 30 juli 2025 22:37





#### WHAT?

You will make morse code with the micro:bit. So you can send morse code to each other.

### www.makecode.com

Morse Code of Beethoven | Classical Music Did You Know | Hobuco



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**Copy** play tone; **paste** this under the loop. Change 1/2 to **1 beat** 

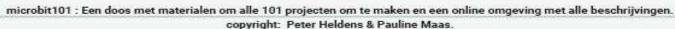
Drag from Input; on button A pressed		TIPS
Drag from Music; Play (tone Middel C 1 beat)		You can look for a command in the search above Basic
Copy the block button A pressed (right mouse)		A list of the international Morse Code
Paste this, change A into B		Did you know that the start of Beethoven number 5 starst with 3 tim
Change 1 beat to 1/2 beat	-	short and 1 time long. That is V for victory. In the second World War,
Drag from Input; on button A pressed, change to AB		this music piece was forbidden to be played by the Nazi's.
Drag from <b>Loop</b> , <b>repeat</b> 4 times, change to 3		
Drag from Music; Play tone Middel C, change beat to 1/2		EXTRA
Drag from Basic; pause		Send you own secret code in morse code to each other

MICROBIT

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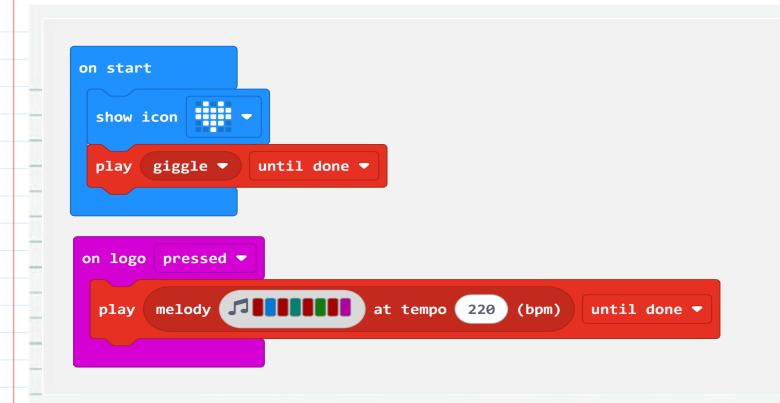


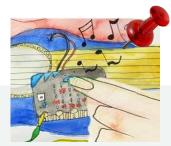
Put a word morse under the shake input

# Card 5 - Touch Sensor (V2)

Link to Code

woensdag 30 juli 2025 22:37





#### WHAT?

You will now use the touch sensor on the micro:bit and make music with the melody editor.

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EXPLAIN CODE		TIPS	
Drag from <b>Basic</b> ; show icon and pick an icon		The special blocks for Version 2 micro:bit are all the way down	1
Drag from Music; play giggle (all the way down to V2 (version	ı 2 micro:bit)	If you use V2 sounds, error 927 will show on your micro:bit	
Drag from Input; on button A pressed		Sometimes you have to make you finger a little wet	<u>Link to</u>
Drag from <b>Music</b> ; <b>Play</b> melody, and make your own melody			
Play around with the tempo bpm (beats per minute)	EXTRA		
	Change th	he sounds	-
	Can you c	change until done, that the sounds is there the whole time?	-

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With beats per minute you can change the tempo of the music

# Card 6 - Disco Lights (V2)

Link naar de Code

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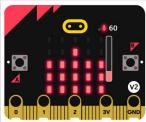


#### WHAT?

You will now use the sound level from the micro:bit. That is a new sensor on the V2.

### www.makecode.com

A small extra LED will turn be on next to the logo, that is the sound sensor from te micro:bit.



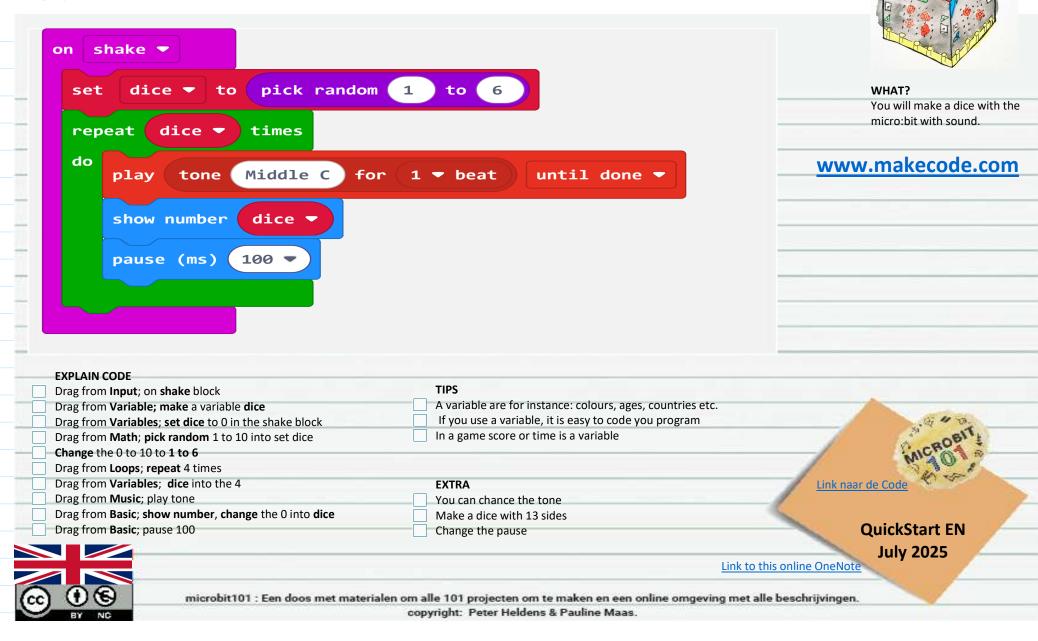
EXPLAIN CODE	TIPS	all.
Drag from <b>Basic</b> ; <b>forever</b> block	You can see a small LED extra on next to the logo, that is the sound sensor	PACROD
Drag from <b>Led; plot bar</b> into the <b>forever</b> block	As it is sometimes loud in a classroom, easier to use 100	W. 40 .
Drag from <b>Input</b> ; sound level (down V2 sensor) into the 0 of plot bar	Put on a youtube song, and see the LED's on the micro:bit danse	N. S.
Change the 0 from up to into 100	Lin	k naar de Code
Scream very loud towards the micro:bit		K Hadi de code
Put on a youtube song	EXTRA	QuickStart EN
	Change the sound level into light level, shine light on your micro:bit	July 2025
	Change the sound level into temperature, blow to the micro:bit	July 2025
		li o W
$\sim$	Link to this on	lline OneNote

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## Card 7 - Dice

#### Link naar de Code

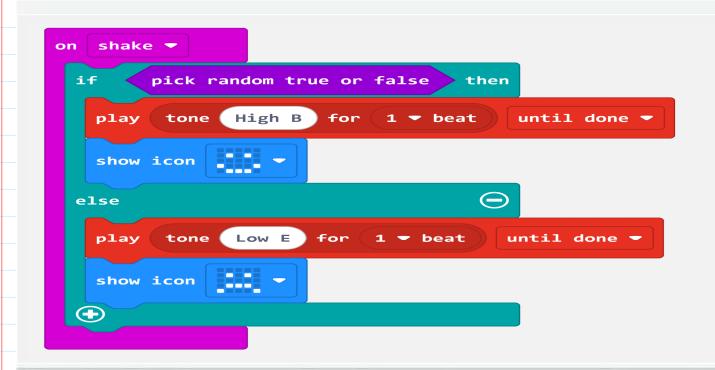
woensdag 30 juli 2025 22:37



## **Card 8 - Fortune Teller**

Link naar de Code

woensdag 30 juli 2025 22:3





#### WHAT?

You are going to make a fortuneteller. You can ask a question and if you shake the micro:bit he will give you the answer.

www.makecode.com

EXPLAIN CODE	TIPS	
Drag from Input; on shake block	The if then else block you use often. Walk untill you see a wal.	
Drag from Logic; if true then else in the shake block	When you don't have not lives anymore, you are dead etc.	
Drag from Math; pick random true of false into true field		
Drag from Music; play tone and pick a high tone	EXTRA	
Drag from <b>Basic</b> ; <b>show</b> icon and pick a <b>happy</b> face	You can chance the show icon into an animation	1
Copy play tone; paste it in the else part, change the tone in a low tone	Change the play tone into a play a happy or sad melody	
Copy show icon, paste this under the low tone, change into sad face	Change the play tone into a play a happy of sau filelouy	4

MICEO .

Link naar de Code

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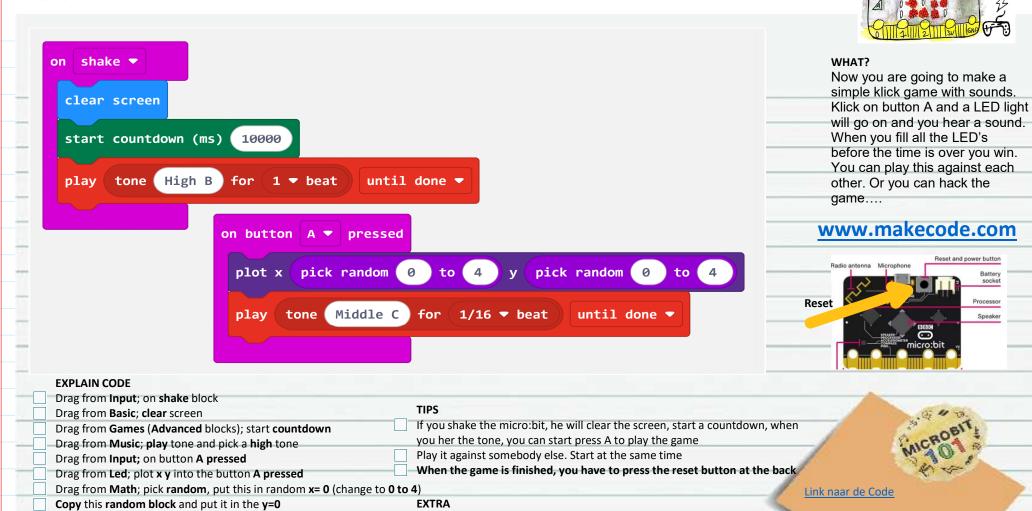
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## Card 9 - Click Game

Drag from Music; play tone and change to 1/16 beat

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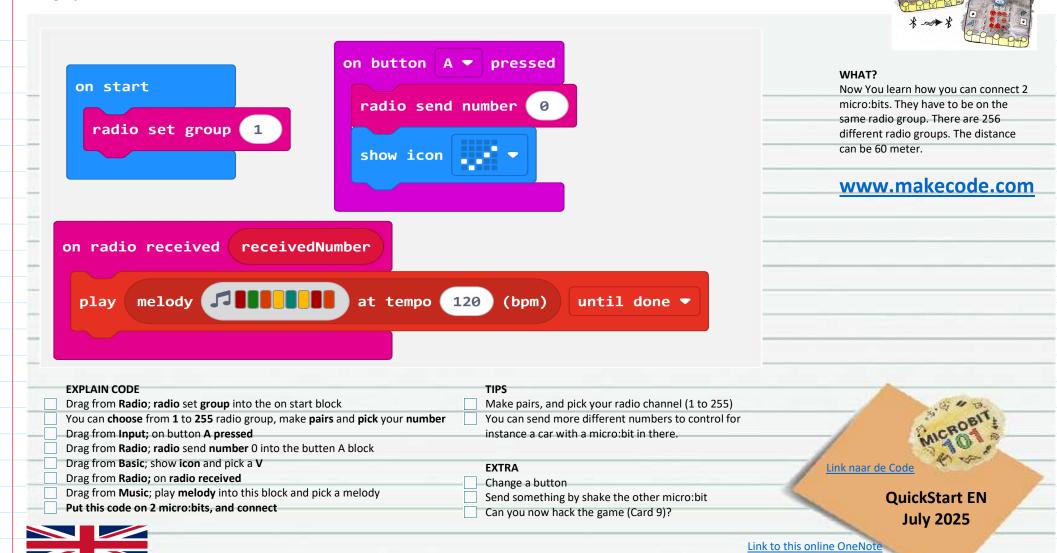
How can you add more LED's when you press A?
What will happen when you pick random 0-10?

You can change the countdown, more time to play

### Card 10 - Connect

Link naar de Code

woensdag 30 juli 2025 22:37

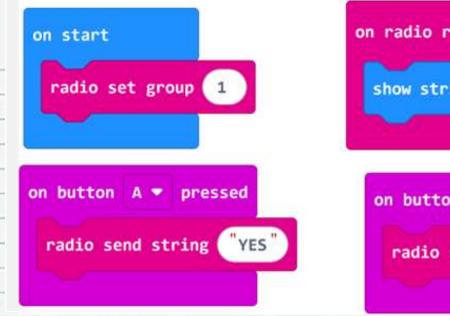


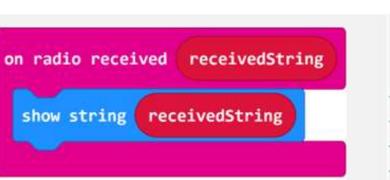
## Card 11 - Secret Code

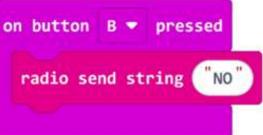
Link naar de Code

woensdag 30 juli 2025











#### WHAT?

As you saw in Card 12,you can connect micro:bits and send a number. You can also send a text, then you can send a secret code to each other.

www.makecode.com

EXPLAIN CODE	TIPS
Drag from <b>Radio</b> ; <b>radio</b> set <b>group</b> into the on start block You can <b>choose</b> from <b>1</b> to <b>255</b> radio group, make <b>pairs</b> and <b>pick</b> your <b>number</b> Drag from <b>Input</b> ; on button <b>A pressed</b>	Make pairs, and pick your radio channel (1 to 255)  Now you can send secret message to each other
Drag from Radio; radio send string and change it into YES  Copy on button A pressed, Paste it  Change it on button B pressed and the string in NO  Drag from Radio; on radio received received string  Drag from Basic; show string into it, drag ReceivedString into "hello"  Put this code on 2 micro:bits, and connect	EXTRA  What other words can you send?  Try how far away you can stand  Can you connect more micro:bits on the same group?

Link naar de Code

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### Card 12- Bom

Link naar de Code

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