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Flashing heart

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Love Meter



Smiley Buttons

About the BBC Micro:bit

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About the BBC Micro:bit

www.microbit.org

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Basic Block **E Basic**





forever

Keep running part of a program in the background.



An event that runs when the program starts. The **on start** is a special event that runs when the program starts, before any other event. Use this event to initialize your program.



Pause the program for the number of milliseconds you say. You can use this function to slow your program down.

- ms is the number of milliseconds that you want to pause
- (100 milliseconds = 1/10 second, and 1000 milliseconds = 1 second).



Basic Block **E Basic**







Show a number on the <u>LED screen</u>. It will slide left if it has more than one digit.



Shows a picture on the <u>LED screen</u>.



Shows the selected icon on the LED screen



Show a number on the <u>LED screen</u>. It will slide left if it is bigger than the screen.









Turn off all the LED lights on the <u>LED screen</u>.









basic

Provides access to basic micro:bit functionality.









Say Hello





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1. Go to the webpage at http://microbit.org/





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3. JavaScrip Blocks Editor (PXT)





4. JavaScrip Blocks Editor (PXT)

📥 Download

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Untitled



4. JavaScrip Blocks Editor (PXT)







5. Open download folder

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Place the show leds block and paint a heart.









Click Download to transfer your code in your micro:bit!







Place another show leds block under the heart to make it blink.





Place the blocks inside the forever to repeat the animation.







Click Download to transfer your code in your micro:bit!





Place more show leds blocks to create your own animation.







Click Download to transfer your code in your micro:bit!

















Use <u>show leds</u> to make a smiley face:







Add an input block for when button A is pressed, and move the smiley face inside it:







Click Download to transfer your code in your micro:bit!







Add blocks so that when <u>button B is pressed</u>, a frowney appears:









Click Download to transfer your code in your micro:bit!







You can also have a secret mode where A and B are pressed together.









Click Download to transfer your code in your micro:bit!









Use pins and your body to change the display!







Use <u>on pin pressed</u> to show a random number when pin PO is pressed (hold the GND pin with other hand):











Show a string when pin P1 is pressed:











Show a heart when pin P2 is pressed:





















Creating an on shake block









Add a set block with a variable. Then add a pick random block, and store the random number in the variable, like this:





Step 3 - Picking paper

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Put an if block after the let block that checks whether weapon is 0. Make sure the if block has an else if part and an else part.

O on shake	
set weap	on 🔻 to (pick random 0 to 🔰 2
if û	weapon V = V 0
then 📻	show leds
else if	false 🔻
then	
else	



Step 4 - A random rock

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Make the else if part check if the variable weapon is 1. Then add a show leds block with a picture of rock.





Step 5 - Suddenly scissors

Add a show leds block with a picture of scissors to else part:





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Your game is ready! Have fun!



Open the Game drawer, and then add the block change score by 1







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Step 7 - Prove you're the greatest !

After you micro:bit can add 1 to the score, show how many win you have







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Step 8 - Staying honest

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Open the Game drawer, and then add the block change score by -1



