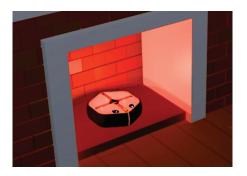
Fireplace Program

Use variables to code Root to glow and flicker different colors like a flame in a fireplace.







1. when program started while true while true

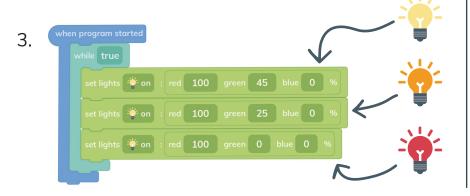
While True

The While True Block acts as a "Forever Loop." The code you place inside will run over and over until you press the Stop Button.



While True

The Set Lights Block in Level 2 uses RGB values make Root's lights glow.



Yellow

Red: 100; Green: 45; Blue: 0

Orange

Red: 100; Green: 25; Blue: 0

Red

Red: 100; Green: 0; Blue: 0

4. set lights on : red 100 green 45 blue 0 1 set lights 🍑 on : red 100 green 25 blue 0 % set lights 💗 on : red 100 green 0 blue 0 %

Wait Block

The Wait Block will pause the program before moving to the next line, to make the lights change slower.

5. myNumber while true set var myNumber set lights 👺 on : red 100 green 45 blue 0 % set lights on : red 100 green 25 blue 0 set lights on : red 100 green 0 blue 0

Set Variable Block

The Set Variable Block gives Root a number to remember.

We'll use it here to tell Root how long to wait before change the lights in each loop.

create number var myNumber while true set var myNumber to 0 set lights 🍟 on : red 100 green 45 blue 0 vait 1 s myNumber et lights on : red 100 green 25 blue 0 myNumber et lights 🏺 on : red 100 green 0 blue 0 % myNumber

6.

Number Variable Block

The Number Variable Block will equal whatever you decide it should equal with the Set Variable Block.

```
7. when program started

while true

set var myNumber to 0

set lights on: red 100 green 45 blue 0 %

wait myNumber s

set lights on: red 100 green 25 blue 0 %

wait myNumber s

set lights on: red 100 green 0 blue 0 %
```

```
When program started

while true

set var myNumber to random integer from 0 to 100

set lights on: red 100 green 45 blue 0 %

wait myNumber s

set lights on: red 100 green 25 blue 0 %

wait myNumber s

set lights on: red 100 green 0 blue 0 %

wait myNumber s
```

```
9. create number var myNumber with value 0
when program started
while true
set var myNumber to random decimal from 0 to 0.75
set lights on: red 100 green 45 blue 0 %
wait myNumber s
set lights on: red 100 green 25 blue 0 %
wait myNumber s
set lights on: red 100 green 0 blue 0 %
```

Random Block

The Random Block will generate a random integer or decimal between the two numbers that you place in the block.

Random Decimal

Changing the Random Block to generate a decimal from 0 to .75 will change how long the Wait Blocks will wait before moving to the next light color in each loop.