

CHEAT SHEET



Variable types

int	positive / negative integers
double	positive / negative decimal numbers
char	one single character
string	more than one character
bool	values can be only true or false

Constant values (Literals)

int	123
double	123.456
char	'A'
string	"ABCDEFGH"
bool	true false

Conditional operators

<	less than
<=	less than or equal
==	equal
>=	greater than or equal
>	greater than
!=	not equal

Logical operators

&&	AND
	OR
!	NOT

while loop

```
while (condition1)
{
    // run statement until condition1
    // becomes false
}
```

Arithmetic operators

+	add	-	subtract
*	multiply	/	divide
++	increment	--	decrement

for loop

```
for(int i = 0; i < condition; i++)
{
    // repeat statements until condition
    // becomes false
}

for(int i = 0; i < condition1; i++)
{
    for(int j = 0; i < condition2; j++)
    {
        // repeat statements j * i times
    }
}
```

Conditional statement

```
if (condition1)
{
    // statements to run, if condition1 is true
}
else if (condition2)
{
    // statements to run, if condition2 is true
}
else
{
    // Run statements if no previous conditions
    // was true
}
```

Class

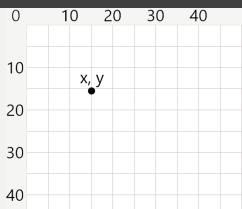
```
class ClassName
{
    // Constructor
    public ClassName(/*Parameters*/)
    {
        // statements automatically executed,
        // when instance created
    }
    public int MethodName(/*Parameters*/)
    {
        return 10;
    }
}
```

ClassName theClass; // declare variable

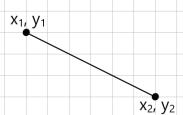
theClass = new ClassName /*Arguments*/;
theClass.MethodName /*Arguments*/;

Basic shapes

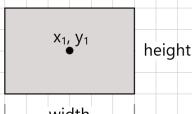
Point (x, y)



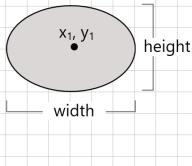
Line (x_1, y_1, x_2, y_2)



Rect ($x, y, width, height$)



Ellipse ($x, y, width, height$)



Shape attributes

Fill (color) set the fill color

NoStroke () paint no stroke

Stroke (color) set the color

StrokeWeight(weight) set the line width

Color



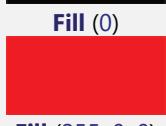
Fill (0)



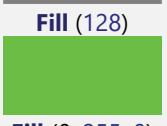
Fill (128)



Fill (255)



Fill (255, 0, 0)



Fill (0, 255, 0)



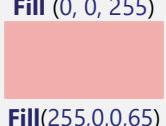
Fill (0, 0, 255)



Fill(255,0,0,255)



Fill(255,0,0,156)



Fill(255,0,0,65)

Canvas settings

Background (color) erase the canvas with the color

EllipseMode (mode) location of the anchor
EllipseModes.Center
EllipseModes.Corner

RectMode (mode) location of the anchor
RectModes.Center
RectModes.Corner

PrintLn ("Hello") write text to the console
PrintLn (Width) to find errors

Text

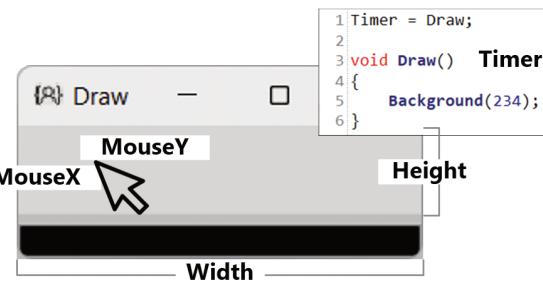
Hello

TextSize (32) set the font size

TextFont ("Cookie") set the font

Text ("Hello") draws text to the canvas

Canvas variables



Input variables

MouseIsPressed true, if any mouse is pressed

KeyIsPressed true, if any key is pressed

Key pressed key of type char

KeyCode code for non-visible character of type KeyCodes

Math methods

Random(0, 100) returns a random number between min and max

Dist (0,0, 100, 0) calculates the distance between two points