# UTFT_Geometry 

Add-on Library for UTFT: Geometric functions

## Manual

## Introduction:

This library is an add-on to UTFT and will not work on its own.
This library adds some geometric functions to UTFT which are not included in the main library.

You can always find the latest version of the library at http://www.RinkyDinkElectronics.com/ For version information, please refer to version.txt.

FUNCTIONS:
UTFT_Geometry(UTFT);
The main class constructor.
Parameters: UTFT: A reference to an already created UTFT object (remember the '\&' in front of the object name)
Usage: UTFT_Geometry geo(\&myGLCD); // Start an instance of UTFT_Geometry pointing to the UTFT object myGLCD Notes: Remember that all functions in UTFT_Geometry must be called through the UTFT_Geometry object (geo in this example), while all UTFT functions still must be called through the UTFT object (myGLCD in this example)

|  | Draw a triangle with the specified corners. |
| :--- | :--- |
| Parameters: | x1: x-coordinate of the first corner |
|  | y1: y-coordinate of the first corner |
|  | x2: x-coordinate of the second corner |
|  | y2: y-coordinate of the second corner |
|  | x3: x-coordinate of the third corner |
| y3: y-coordinate of the third corner |  |
| Usage: | geo. drawTriangle $(159,119,319,119,319,239) ; / /$ Draw a triangle |

## fillTriangle(x1, y1, x2, y2, x3, y3);

Draw a filled triangle with the specified corners.

| Parameters: | x1: x-coordinate of the first corner |
| :--- | :--- |
| y1: y-coordinate of the first corner |  |
| $\times 2:$ | x-coordinate of the second corner |
| y2: y-coordinate of the second corner |  |
|  | x3: x-coordinate of the third corner |
|  | y3: y-coordinate of the third corner |



## drawPie( $x, y, r$, startAngle, endAngle);

Draw an arc with lines to the center of the imaginary circle.


