Flowchart for Color to Voice Converter Tool

SETUP – Declare variables and load I2C routines.

Wait a short time for all chips to initialize

Read the 4 channels of color from the TMD3782

Evaluate each color channel, Clear, Red, Green, Blue to determine the color

If all are similar color may be white.

Look up MP3 file number for the appropriate color in a table

Send file number to Voice module and trigger playback

Repeat as long as power is on

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Possible Colors are:

Pink, Red, Green, Blue, Yellow, Orange, Purple, Black, Grey and White

Possible modifier prefixes are:

Light, Dark, Navy, Sky, etc.