**Tips for the Vivid Light Challenge (July 2016)**

1. Must use one or more sensors found on the FEZ HAT
   1. Temperature Sensor, Accelerometer, Light Sensor or user buttons.
   2. [**https://www.ghielectronics.com/docs/329/fez-hat-developers-guide**](https://www.ghielectronics.com/docs/329/fez-hat-developers-guide)
2. There are two RGB Leds on the FEZ HAT so you can test your colour idea on those
3. The following Nuget libraries are required

* M2Mqtt - MQTT Client Library for .Net: <https://www.nuget.org/packages/M2Mqtt>
* Json.net: <https://www.nuget.org/packages/Newtonsoft.Json/8.0.3>

1. MQTT Pub/Sub Details
   1. Broker IP Address: Will be made available on the day
   2. Publish on topic iot/light/
2. The Light Class (found in the Challenge Directory)

* Light IDs available: 1-4.
* You can use as many lights as you like but they are a shared resource so you’ll have to negotiate with others in the workshop.
* You need to provide Red, Green, Blue colours between 0 (off) and 255 (full brightness) to mix your colours.

1. Lights are refreshed every 100 milliseconds (10Hz)

**Winning criteria**

* To be judged on subjective/artistic appeal by the rest of the workshop attendees
* In case of hang vote, the DaveG will have casting vote