

UAL Creative Computing Institute Diploma
Unit 4: "Creative coding and creative computing frameworks"
Assessment 2: Practical Exam
Date: Tuesday 1st June 2021

Duration:

1 week (designed to be possible to complete in two hours)

Directions:

You may use the internet, but do not talk, confer with others or cheat. You are only cheating yourself. Otherwise, standard exam conditions apply.

The **examinable brief** is this:

"Create an iOS application that allows users change the colour of a filled rectangular UIView using sliders or other user interface elements. You MUST use the HSB colour system, rather than the RGB colour system."

Please read the following advice:

You should use Xcode to complete this exam.

Remember to **comment your code**, for yourself and your examiner.

Once you have finished your submission, please zip the entire folder containing your Xcode project and all associated and submit the .zip file as an attachment to this Moodle quiz question. Please name the folder in which you store the Xcode project in a sensible way, such as "2021_06_01_JoelGethinLewisUnit4Practical". Please name the resultant .zip file of the folder in a sensible way, such as "2021_06_01_JoelGethinLewisUnit4Practical.zip".

You are encouraged to make use of the Swift Explorations textbook (both student and teacher versions) for this exam. The example applications that Swift Explorations course take you through will be **very** useful for this exam. You can download the example applications by following the links in the introduction section of either textbook.

Documentation of colour creation using a UIColor object:
https://developer.apple.com/documentation/uikit/uicolor/color_creation

A passing grade will be given for applications that fulfil the examinable brief. Better grades will be given for applications that go beyond the examinable brief. Consider what extra variables could be made controllable by users, or what graphic elements or text you could add to your application to make it more interesting or usable or fun.

Good luck!