Green Screen Room

(https://www.youtube.com/watch?v=82dV3TbT87o)
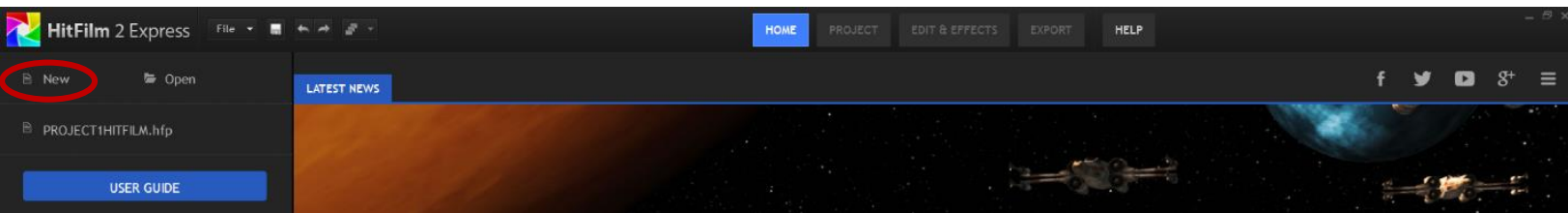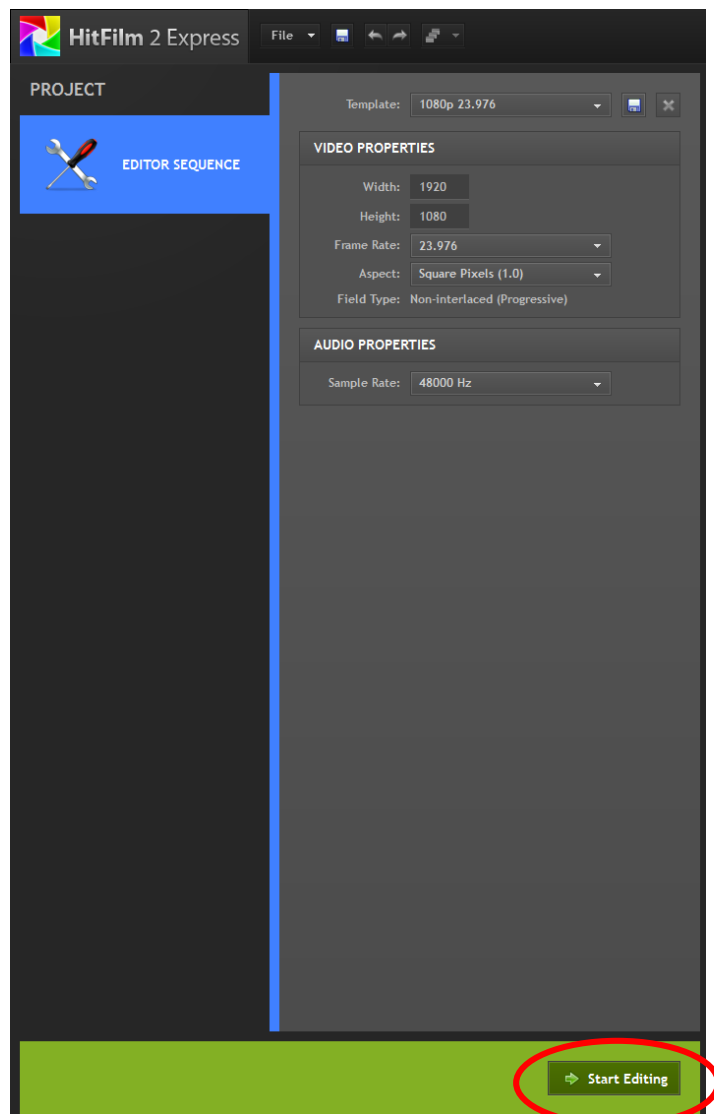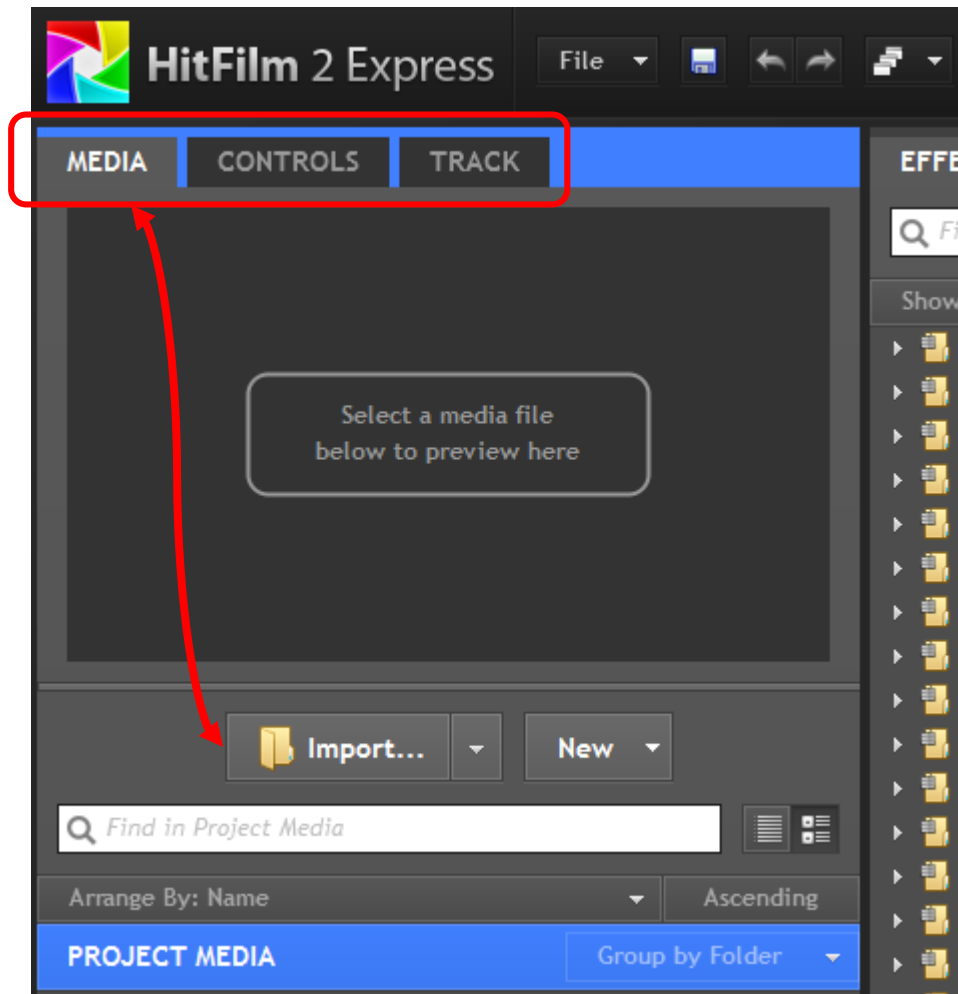
1. Located in the Digital Media Center in the Library, next to Technology Services
2. Chroma Keying
   a. Special effects technique to combine visual elements of two separate sources into one image.
   b. Green is used as the backdrop because digital video cameras are most sensitive to this color, which helps reduce background noise.
   c. Do not wear similar colors to the background
3. Software
   a. Hitfilm 2 Express
4. Steps to begin a new project
   a. Open HitFilm 2 Express

   b. Click "New" in upper left hand corner of screen as seen above

    c.   This will bring you to the project screen page

         i.   Here you can control specific video and audio properties

        ii.   By leaving these settings at their default, HitFilm will automatically adjust these properties to fit your project

    d.   To begin inserting audio, video and images into your project, click the "Start Editing" button in the lower quadrant of the page, as seen above

    e.   This will bring you to the "Edit & Effects" screen

         i.   This is where nearly all of the Hitfilm work will take place

        ii.   Notice the three tabs in the left hand corner of this page, outlined below

        iii.   To upload audio, video and images into your project, click the "Media" tab and then the "Import" button.

            1.   Double click on the visual element that you wish to use

            2.   By holding down the "shift key" you can select multiple files at once to upload

            3.   Note: You will need to upload one image or video that was taken in front of the green screen, and another still image that will serve as the background.

                a.   The "Green Screen Essential Pack" file folder contains sample background images

            4.   If you do not already have an image in front of the green screen uploaded, there is a Cannon Video recorder (that is also capable of taking still images) in the green screen room available for use. Directions for using the Video recorder can be viewed below.

5.   Recording and taking still images in front of Green Screen

a. Video Recorder/Camera: Cannon VIXIA HF R62
    i. Accessories
        1. Wall charger
        2. USB cord
b. Uploading images from Cannon recorder
    i. Connect USB cord from recorder to computer
    ii. Go to my computer and click on the digital camera file under "Portable Devices" as seen below

    iii. Navigate this file to find the video or images you have taken with this device
    iv. Save images to desktop
    v. You can now follow the directions in step 4 to upload this images and video to Hitfilm 2 express.

6. Editing Picture/Video
a. Drag imported media (foreground – image/video taken in front of green screen) into the "video section" under the editor tap
b. Next press "Make Composite Shot"
c. Under composite shot tab, drag your background image underneath your foreground layers.
d. Go into folder "keying" under the effects tab.
    i. Drag the color difference key into the foreground layer in the editor.
    ii. Go to the controls tab, click on "effects" and the "color difference key"
        1. Drag the "max" down and "min" up
        2. Click on "view matte" to see key. White is your foreground and black is background. Goal is to get this as clean as possible.
    iii. To reduce jagged image, drag "Chroma UV blur" above "color difference key" under effects
        1. Turn radius up to about 15
    iv. To reduce green areas in background, drag "spill removal" below "color difference key" under effects.
    v. "Matte Cleaner" also helps clean up the edges