

# FP0: Initial Planning for Final Video Project

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This team assignment was created by Dr. Jan Pearce

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## Directions for use:

- Make a copy of this worksheet in one of your Google accounts.
  - Turn on sharing by link. Do not make it publically accessible by web, only by link.
  - Share your copy with pearcej@gmail.com and your partner(s) via their Google account.
  - Change the username in the document title as directed. (Your username is your Berea username--mine is pearcej.)
  - Each teammate should submit the sharing address (not the edit address) of your completed activity into Moodle.
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## Member Roles

- If you have only two people, combine Recorder & Spokesperson
- Make up a team name which suits your team!

<u>Team Roles</u>	Member Name
Member 1	
Member 2 (optional)	
Team Name:	

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## FP1: Initial Planning for Final Video Project

### Objectives

- Reflect on your own learning
  - Gain practice in identifying key concepts from the course materials
  - Develop a video to help others understand key concepts in the course
  - Synthesize data structures concepts learned in this course
  - Explain data structures in an organized manner in a video
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**Each Team will focus on a key topic**

Each team of 1 or 2 people will choose a project in the order of their completed submissions of other work.

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In this final project you will choose a data structure topic that we have not been able to cover in depth in this course. You will create a video that illustrates your topic.

**IMPORTANT NOTE: To be eligible to choose your topic, you must have completed all of the course work with earlier deadlines. You must then email or slack message me with your choice. As topics are chosen, they will be “claimed” and will no longer be available.**

Available video topics:

- Binary Heaps

Unavailable video topics (already claimed)

- Knight's Tour Problem - Bryar
- Breadth First Search - Ali and Imma
- Depth First Search - Jenifer and Thy
- Merge Sort - Concepta and Sama
- Quick Sort - Micheala
- Prim's Spanning Tree Algorithm - Ben
- Topological Sorting - Bertrina
- Dijkstra's Algorithm - Joey and Samantha
- AVL Trees - Abe

For your final video project, you will be submitting the following:

- FP0: This planning document
- FP1: Link to preliminary video transcript
- FP2: Link to Video and with corrected transcript posted to youTube
- FP3: Team evaluation

Selected Topic:	
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Warning--do not give a long lecture in your video. Why? See [Lectures aren't just boring, they're Ineffective, too, study finds](#). Many other studies show the same thing. Although people may enjoy a lecture if the lecturer uses humor, people simply do not learn much from lectures. Worse, lectures teach people to be passive learners, which is the exact opposite of what is needed for success in the rapidly changing discipline of information technology. Hence, no long lectures!

**Here is an example of a good video on a topic from this class.**

### Video Example by Vi Hart

The video below illustrates the following key ideas in a creative way:

- decimal place values
- binary place values
- How to count in binary



### Binary Hand Dance - YouTube

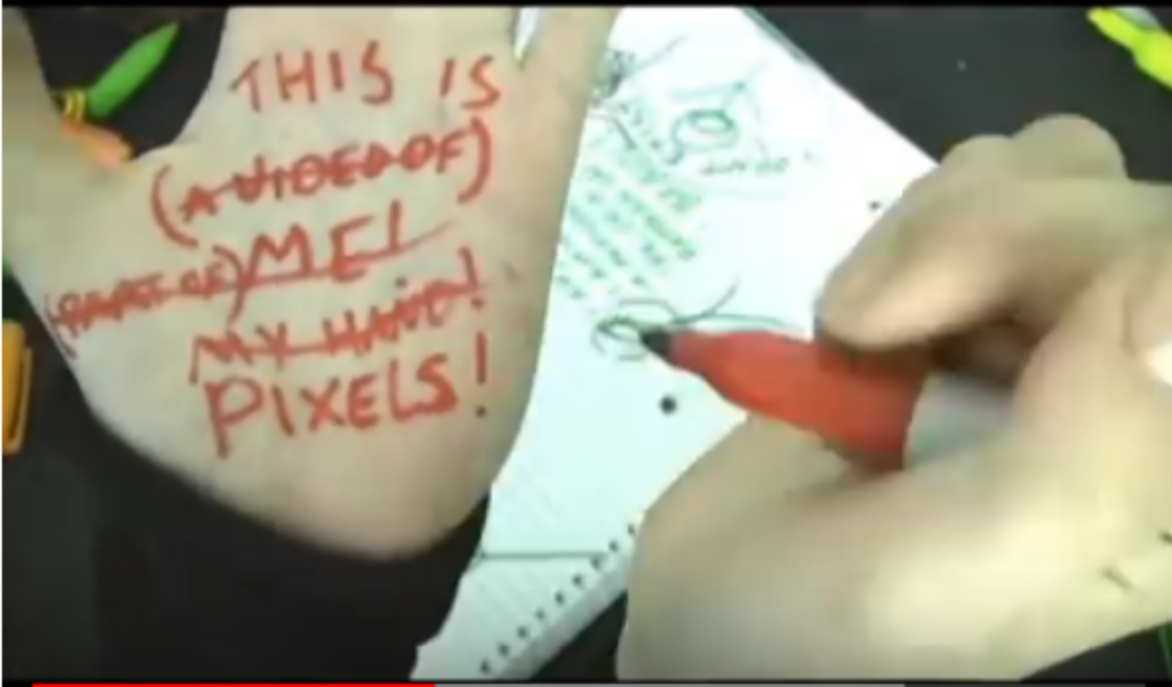
YouTube · Vihart

See: <https://www.youtube.com/watch?v=OCYZTg3jahU>

### How to Make a Great Video by Vi Hart

The video below illustrates the following key ideas in a creative way:

- A little bit about recursion
- The process of making a video
  - Choose a topic for the video
  - Create a script
  - Revise the script by cutting to make it succinct Vi recommends cutting ~30%
  - Film stuff (maybe writing or drawing or construction paper or clay or whatever...)
  - Cut out lots of the boring parts of the film
    - She does not actually have interns, or an agent, or a stunt double--those are just jokes....
  - Read and record the script



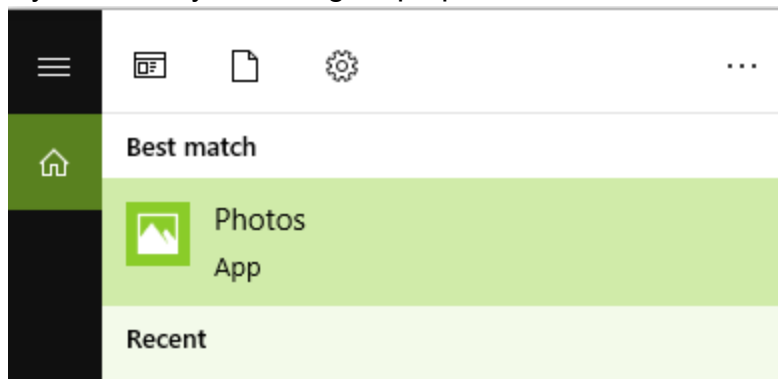
## How To Make A Video About How To Make A Video About How To Make A Video About How To Make a Video...

See: <https://www.youtube.com/watch?v=4gZ5rsAHMI4>

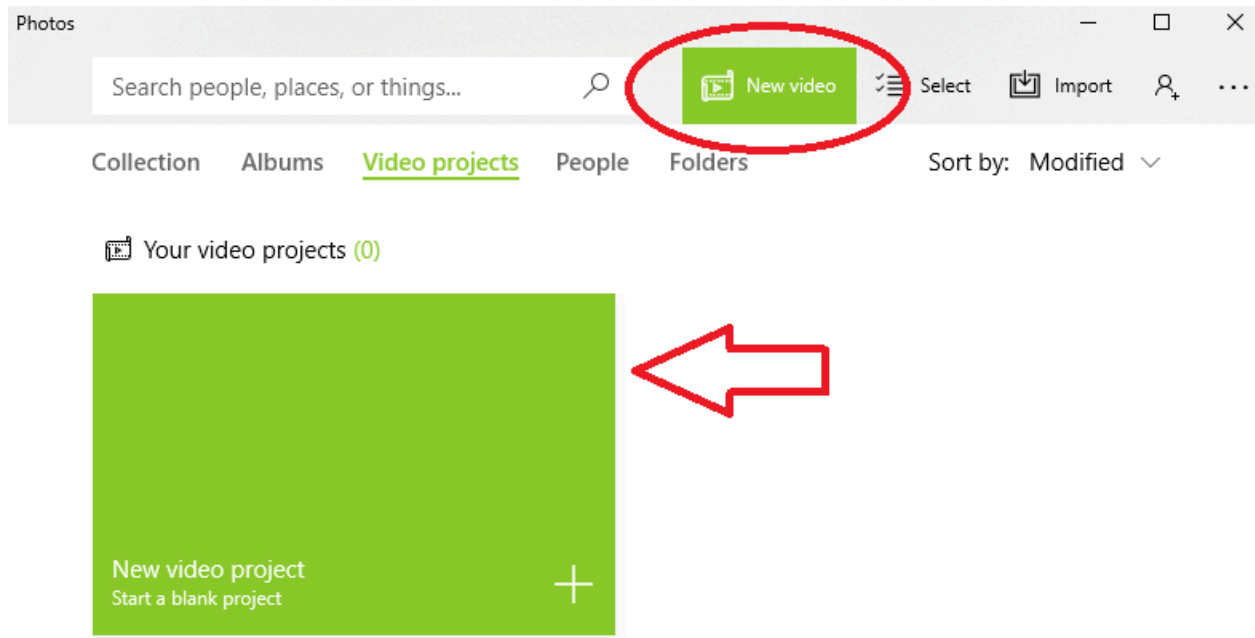
### What Software is Good for Video Editing?

There is a lot of software out there. If you have access to a Mac, the built in iMovie App is great.

If you are on your college laptop, I recommend the much improved Photos App.

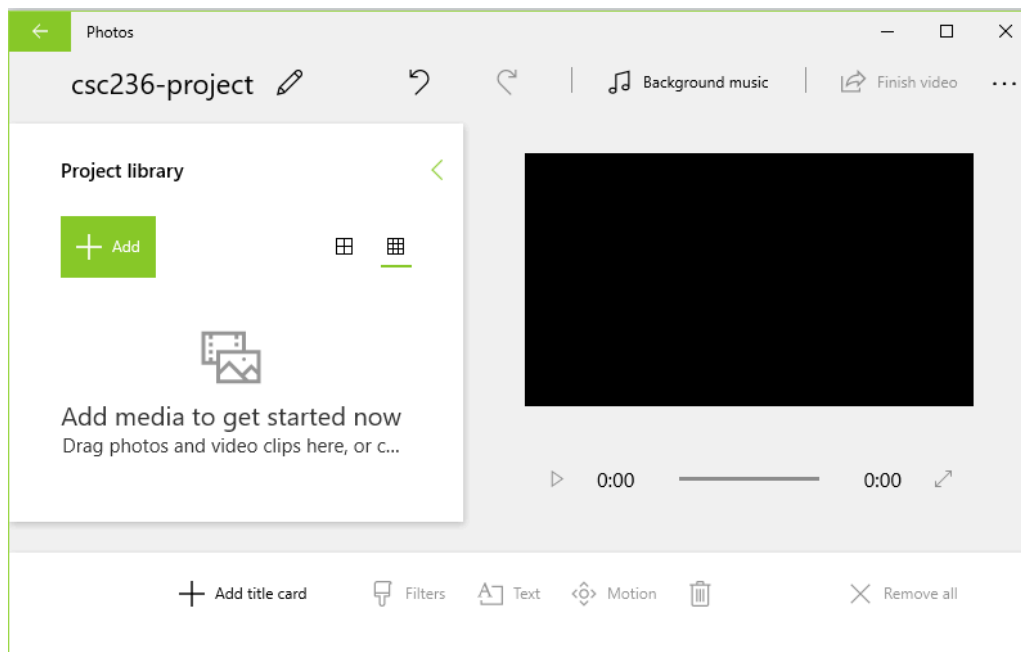


You open it up and can start a new video project



Once you start a new project, you get a lot of clear choices:

- Add title card
- Add media (videos and/or photos)
- Add background music
- Add text
- Use filters
- etc.



It is pretty intuitive to edit with.

Thoughts on video	<ul style="list-style-type: none"><li>•</li><li>•</li></ul>
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## Milestones

- FP0: This planning document
- FP1: Link to preliminary video transcript
- FP2: Link to video and with corrected transcript posted to YouTube
- FP3: Team evaluation

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## To Submit

When you are finished with your initial planning:

- Share your copy with both pearcej@gmail.com and all team partner. Be sure you do NOT make it publically accessible on the web.
- Turn on commenting for those with the link.
- Change the usernames in the document title as directed. (Your username is your Berea username--mine is pearcej.)
- Submit the sharing link address (not the edit link address) of your completed lab activity in Moodle. Be sure that EVERYONE submits in Moodle.