

# p01 First Deliverable



## Getting Started

Begin by [following this link to create your individual replit project repository](https://replit.com/team/csci111-2023-fall/ColorVisionProject).  
(<https://replit.com/team/csci111-2023-fall/ColorVisionProject>)..

## Assignment

You should first follow directions to sign up for a FOCUS GOAL and brainstorm how you can take a unique, innovative approach to improve upon the problem.

Keep in mind that the project will be completed incrementally. Don't try to solve it all at once! Decompose the problem into something small so you can try it, see how well your experiment works, and then adapt to improve it in the next increment.

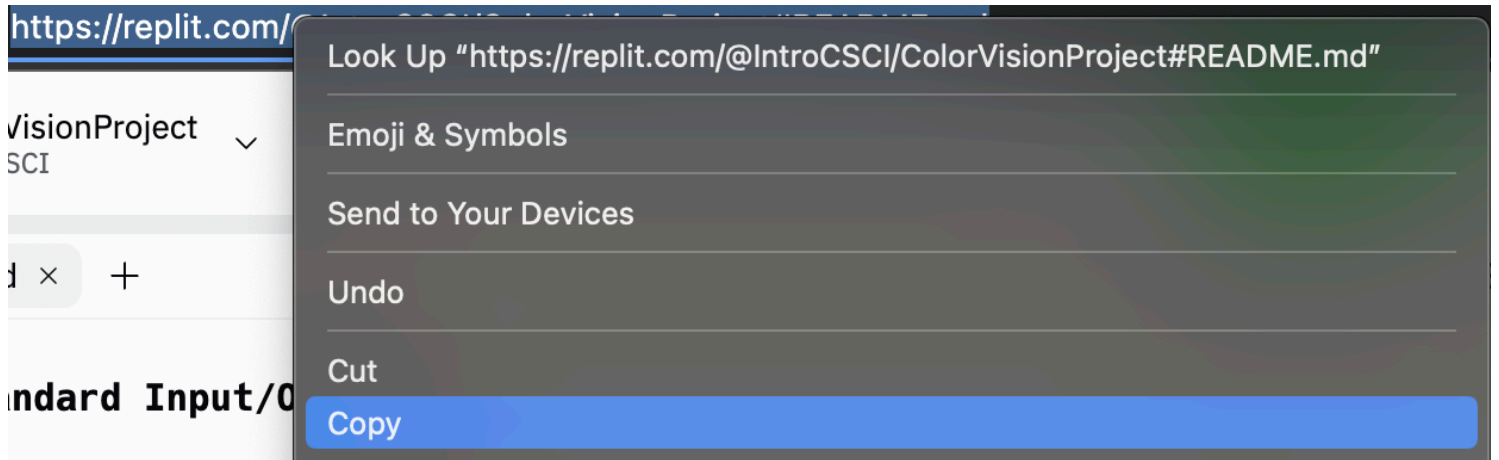
Incrementally develop your program and then **update the README.md file to replace all text that begins and ends with !!! to document your particular program**. This first deliverable (p01) should demonstrate use of:

- Variables - appropriate use of at least two different variables with different data types. At least one should be an array or vector.
- Standard I/O - appropriate use of (at least one use of) output and (at least one use of) input
- Decisions - appropriate use of at least three different kinds of decisions (if, else if, else, switch)
- Iteration - appropriate use of iteration (loops)
- Functions - appropriate use of at least two examples of functions you have created and used, using at least two different return types

## Submitting

Once you are satisfied with your work for this deliverable, make sure you have updated your **README.md** to provide explanations of what your deliverable does and examples of appropriate use of the above required C++ concepts.

Press **SUBMIT** in the top-right of Replit. ALSO go to the web browser's URL and copy it:



Select to **Attempt** this assignment where you can **paste the URL** you just copied.

Press **Submit** and wait for a confirmation it has been submitted.

### Grading

You will be graded on the following:

- **Useful Progress (20%)** - The program has clear use, no known faults, and the documentation is clear and makes the program easy to use
- **Variables (10%)** - Both the use and documentation show clear understanding and appropriate use of variables as required
- **Standard IO (10%)** - Both the use and documentation show clear understanding and appropriate use of Standard I/O as required
- **Decisions (20%)** - Both the use and documentation show clear understanding and appropriate use of decisions as required
- **Iteration (20%)** - Both the use and documentation show clear understanding and appropriate use of iteration as required
- **Functions (20%)** - Both the use and documentation show clear understanding and appropriate use of functions as required

Points 100

Submitting a website url

Due	For	Available from	Until
Oct 13, 2023	Everyone else	-	Oct 13, 2023 at 11:59pm

Due	For	Available from	Until
Oct 15, 2023	1 student	-	-
Oct 16, 2023 at 3pm	1 student	-	-
Oct 17, 2023	1 student	-	-

## Project - First Deliverable

Criteria	Ratings					Pts
Useful Progress	<b>20 pts Proficient</b> The program has clear use, no known faults, and the documentation is clear and makes the program easy to use.	<b>15 pts Sufficient</b> The program has use and has very few/no known faults. The documentation is informative enough to use without help.	<b>10 pts Competent</b> The program has use and has limited number of faults with user interaction. The documentation and implementation	<b>5 pts Novice</b> The program runs but its functionality is quite limited, difficult to use, or has faults.	<b>0 pts None</b> The program does not compile or the program does not do	20 pts
Variables	<b>10 pts Proficient</b> Both the use and documentation show clear and evident understanding of the concept	<b>7.5 pts Sufficient</b> The concept is fairly consistent with best practices but the documented explanations could use clearer	<b>5 pts Competent</b> Most use is appropriate but there is room for improving how the concept is used and/or the documentation suggests	<b>2.5 pts Novice</b> There is some appropriate use, but the examples suggest some major misunderstandings and/or poor practices	<b>0 pts None</b> This no appropriate use, or the examples do not demonstrate proper understanding.	10 pts
Input/Output	<b>10 pts Proficient</b> Both the use and documentation show clear and evident understanding of the concept	<b>7.5 pts Sufficient</b> The concept is fairly consistent with best practices but the documented explanations could use clearer	<b>5 pts Competent</b> Most use is appropriate but there is room for improving how the concept is used and/or the documentation suggests	<b>2.5 pts Novice</b> There is some appropriate use, but the examples suggest some major misunderstandings and/or poor practices	<b>0 pts None</b> This no appropriate use, or the examples do not demonstrate proper understanding.	10 pts
Decisions	<b>20 pts Proficient</b> Both the use and documentation show clear and evident understanding of the concept	<b>15 pts Sufficient</b> The concept is fairly consistent with best practices but the documented explanations	<b>10 pts Competent</b> Most use is appropriate but there is room for improving how the concept is used and/or the	<b>5 pts Novice</b> There is some appropriate use, but the examples suggest some major misunderstandings and/or poor practices	<b>0 pts None</b> This no appropriate use, or the examples do not demonstrate proper understanding.	20 pts

Criteria		Ratings				Pts
		could use	documentation			
Iteration	<b>20 pts</b> <b>Proficient</b> Both the use and documentation show clear and evident understanding of the concept	<b>15 pts</b> <b>Sufficient</b> clearer descriptions that demonstrate the concept is fairly consistent with best practices but the documented explanations could use clearer	<b>10 pts</b> <b>Competent</b> suggests incomplete understanding of the topic. Most use is appropriate but there is room for improving how the concept is used and/or the documentation	<b>5 pts</b> <b>Novice</b> There is some appropriate use, but the examples suggest some major misunderstandings and/or poor practices	<b>0 pts</b> <b>None</b> This no appropriate use, or the examples do not demonstrate proper understanding.	20 pts
Functions	<b>20 pts</b> <b>Proficient</b> Both the use and documentation show clear and evident understanding of the concept	<b>15 pts</b> <b>Sufficient</b> clearer descriptions that demonstrate the concept is fairly consistent with best practices but the documented explanations could use clearer	<b>10 pts</b> <b>Competent</b> suggests incomplete understanding of the topic. Most use is appropriate but there is room for improving how the concept is used and/or the documentation	<b>5 pts</b> <b>Novice</b> There is some appropriate use, but the examples suggest some major misunderstandings and/or poor practices	<b>0 pts</b> <b>None</b> This no appropriate use, or the examples do not demonstrate proper understanding.	20 pts
		Total Points: 100				