Black Box Test Plan for ImageViewer

The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C.

Test ID	Description	Expected Results	Actual Results
testNoCommandLineArgs Author: Dr. Balik	$ java -cp bin ImageViewer	Usage: java ImageViewer filename	Usage: java ImageViewer filename
testTwoCommandLineArgs Author: Dr. Balik	$ java -cp bin ImageViewer ncstate.txt missingImage.txt	Usage: java ImageViewer filename	Usage: java ImageViewer filename
testNonexistingFile Author: Dr. Balik	$ java -cp bin ImageViewer junk.txt	Unable to access input file: junk.txt	Unable to access input file: junk.txt

| testImageMenu

Author:
Dr. Balik	$ java -cp bin ImageViewer test-files/ncstate.txt	Image Menu listing 3 images and 4 to quit is displayed and user is prompted for Image: ``` Image Viewer - Please choose an image to view (or 4 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: ```	Image Menu listing 3 images and 4 to quit is displayed and user is prompted for Image: ``` Image Viewer - Please choose an image to view (or 4 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: ```
	(CRTL+C)	**Program exits**	**Program exits**
testQuit **Author:** **Dr. Balik**	$ java -cp bin ImageViewer test-files/ncstate.txt Image Viewer - Please choose an image to view (or 4 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: **4**	**Program exits**	**Program exits**

testDisplayImage
 	
Author:
Dr. Balik
	$ java -cp bin ImageViewer test-files/ncstate.txt
	
	Image Viewer - Please choose an image to view (or 4 to quit).
	
	1 - Mr. Wuf at NC State
	2 - NC State Memorial Belltower
	3 - Daniels Hall - Home of CSC 116!
	4 - Quit the program
	
	Image: **1**
	
	(CTRL+C)
		Mr. Wuf is displayed in DrawingPanel and Option menu is displayed
		
		`Please   enter   an   option below.`
		
		`G-rey scale`
		`H-igh contrast`
		`N-egative`
		
		`Option:`
		
		Program exits
			Mr. Wuf is displayed in DrawingPanel and Option menu is displayed
			
			`Please   enter   an   option below.`
			
			`G-rey scale`
			`H-igh contrast`
			`N-egative`
			
			`Option:`
			
			Program exits

testMissingImage Author: Dr. Balik	$ java -cp bin ImageViewer test-files/ missingImage.txt Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Talley Student Center 5 - Quit the program Image: **4** (CTRL+C)	Talley Student Center missing image file: images/talley.png Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Talley Student Center 5 - Quit the program Image: **Program exits**	Talley Student Center missing image file: images/talley.png Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Talley Student Center 5 - Quit the program Image: **Program exits**

testConvertGreyScale Author: Thomas Tillis	$ java -cp bin ImageViewer test-files/ncstate.txt Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 3 Mr. Wuf is displayed in DrawingPanel and Option menu is displayed Please enter an option below. G-rey scale H-igh contrast N-egative Option: G (CTRL+C)	Mr. Wuf is displayed in DrawingPanel and Option menu is displayed then greyscale mr. wuf is displayed Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 3 Mr. Wuf is displayed in DrawingPanel and Option menu is displayed Please enter an option below. G-rey scale H-igh contrast N-egative Option: G (CTRL+C)	Mr. Wuf is displayed in DrawingPanel and Option menu is displayed then greyscale mr. wuf is displayed Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 3 Mr. Wuf is displayed in DrawingPanel and Option menu is displayed Please enter an option below. G-rey scale H-igh contrast N-egative Option: G (CTRL+C)

testConvertHigContrast Author: Thomas Tillis	$ java -cp bin ImageViewer test-files/ncstate.txt Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 7 Invalid image number Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 4	Invalid Image number printed to console. Program exits Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 7 Invalid image number Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 4	Invalid Image number printed to console. Program exits Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 7 Invalid image number Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 4

testConvert Negative **Author:** Thomas Tillis	$ java -cp bin ImageViewer test-files/ncstate.txt Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 3 Mr. Wuf is displayed in DrawingPanel and Option menu is displayed Please enter an option below. G-rey scale H-igh contrast N-egative Option: N (CTRL+C)	Mr. Wuf is displayed in DrawingPanel and Option menu is displayed then negative mr. wuf is displayed Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 3 Mr. Wuf is displayed in DrawingPanel and Option menu is displayed Please enter an option below. G-rey scale H-igh contrast N-egative Option: N (CTRL+C)	Mr. Wuf is displayed in DrawingPanel and Option menu is displayed then negative mr. wuf is displayed Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 3 Mr. Wuf is displayed in DrawingPanel and Option menu is displayed Please enter an option below. G-rey scale H-igh contrast N-egative Option: N (CTRL+C)

testSelection OutOfBounds A u t h o r : Thomas Tillis	$ java -cp bin ImageViewer test-files/ncstate.txt Image Viewer - Please choose an image to view (or 5 to quit). 1 - Mr. Wuf at NC State 2 - NC State Memorial Belltower 3 - Daniels Hall - Home of CSC 116! 4 - Quit the program Image: 7 Mr. Wuf is displayed in DrawingPanel and Option menu is displayed Please enter an option below. G-rey scale H-igh contrast N-egative Option: N (CTRL+C)		