CSC116: System Test Plan for ImageEditor
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System Test Plan: ImageEditor program

Introduction: The text in bold in the **Description** column represents the test inputs.

Test Files: (List each test file below.)

HINT: The Unix diff command may be used to tell whether or not two files are identical. For example,

\$ diff test-files/test1Inverted.ppm test-files/exp_test1Inverted.ppm

Test ID	Description	Expected Results	Actual Results
testTooFewArgs	\$ java -cp bin ImageEditor	Usage: java -cp bin ImageEditor {-I -H -G} infile outfile	Usage: java -cp bin ImageEditor {-I -H -G} infile outfile
Author: Dr. Balik		Program quits.	Program quits.
testInvalidFlag	\$ java -cp bin ImageEditor -X test-files/in.ppm test-files/out.ppm	Usage: java -cp bin ImageEditor {-I -H -G} infile outfile	Usage: java -cp bin ImageEditor {-I -H -G} infile outfile
Author: Dr. Balik		Program quits.	Program quits.
testInvalidInputFileExt ension	\$ java -cp bin ImageEditor -H test-files/in.txt test-files/out.ppm	Invalid input file extension	Invalid input file extension
Author: Dr. Balik		Program quits.	Program quits.
testInvalidOutputFileE xtension	\$ java -cp bin ImageEditor -G test-files/in.ppm test-files/out.txt	Invalid output file extension	Invalid output file extension
Author: Dr. Balik		Program quits.	Program quits.
testInputFileAccess	\$ java -cp bin ImageEditor -I test-files/in.ppm test-files/out.ppm	Unable to access input file: test-files/in.ppm	Unable to access input file: test-files/in.ppm
Author: Dr. Balik		Program quits.	Program quits.
testNoOverwrite	Check timestamp for test-files/existing.ppm	Program quits.	Program quits.
Author: Dr. Balik	\$ java -cp bin ImageEditor -G test-files/input.ppm test-files/existing.ppm test-files/existingFile.txt exists - OK to overwrite (y,n)?: no	Timestamp for test-files/existing.ppm has not changed.	Timestamp for test-files/existing.ppm has not changed.
testOverwrite	Check timestamp for test-files/existing.ppm	Program quits.	Program quits.
Author: Dr. Balik	\$ java -cp bin ImageEditor -G test-files/input.ppm test-files/existing.ppm test-files/existingFile.txt exists - OK to overwrite (y,n)?: yep	Timestamp for test-files/existing.ppm has changed.	Timestamp for test-files/existing.ppm has changed.

Test ID	Description	Expected Results	Actual Results
testCannotCreateOutp utFile	\$ java -cp bin ImageEditor -I test-files/ColorfulCSC116.ppm notadirectory/invert.ppm	Cannot create output file	Cannot create output file
Author: Dr. Balik		Program quits.	Program quits.
testBadInputFile	Delete bad_output.ppm, if it exists	Invalid input file	Invalid input file
Author: Dr. Balik	\$ java -cp bin ImageEditor -I test-files/bad_input.ppm test-files/bad_output.ppm	Program quits.	Program quits.
testOnePixelInvert	Delete test1Inverted.ppm, if it exists	test1Inverted.ppm is exactly the same as exp_test1Inverted.ppm	test1Inverted.ppm is exactly the same as exp_test1Inverted.ppm
Author: Dr. Balik	\$ java -cp bin ImageEditor -I test-files/test1.ppm test-files/test1Inverted.ppm		exp_testInverted.ppm
testTwoPixelInvert	Delete test2Inverted.ppm, if it exists	test2Inverted.ppm is exactly the same as exp_test2Inverted.ppm	test2Inverted.ppm is exactly the same as exp_test2Inverted.ppm
Author: Amelia Saldino	\$ java -cp bin ImageEditor -I test-files/test2.ppm test-files/test2Inverted.ppm		exp_test2iiiverted.ppiii
testThreePixelInvert Author: Amelia	Delete test3Inverted.ppm, if it exists	test3Inverted.ppm is exactly the same as exp_test3Inverted.ppm	test3Inverted.ppm is exactly the same as exp_test3Inverted.ppm
Saldino	\$ java -cp bin ImageEditor -I test-files/test3.ppm test-files/test3Inverted.ppm		exp_testSinverted.ppin
testTwoPixelHighContr	Delete test4HighContrast.ppm, if it exists	test4HighContrast.ppm is exactly the same as	test4HighContrast.ppm is exactly the same as
ast Author: Amelia Saldino	\$ java -cp bin ImageEditor -H test-files/test4.ppm test-files/test4HighContrast.ppm	exp_test4HighContrast.ppm	exp_test4HighContrast.ppm
testTwoPixelHighContr	Delete test5HighContrast.ppm, if it exists	test5HighContrast.ppm is exactly the same as	test5HighContrast.ppm is exactly the same as
astNewColor Author: Amelia Saldino	\$ java -cp bin ImageEditor -H test-files/test5.ppm test-files/test5HighContrast.ppm	exp_test5HighContrast.ppm	exp_test5HighContrast.ppm
testTwoPixelHighContr astDiffColor	Delete test6HighContrast.ppm, if it exists	test6HighContrast.ppm is exactly the same as	test6HighContrast.ppm is exactly the same as
Author: Amelia Saldino	\$ java -cp bin ImageEditor -H test-files/test6.ppm test-files/test6HighContrast.ppm	exp_test6HighContrast.ppm	exp_test6HighContrast.ppm
testTwoPixelGreyScale RedGreen	Delete test7GreyScale.ppm, if it exists	test7GreyScale.ppm is exactly the same as exp_test7GreyScale.ppm	test7GreyScale.ppm is exactly the same as exp_test7GreyScale.ppm

Author: Amelia Saldino	\$ java -cp bin ImageEditor -G test-files/test7.ppm test-files/test7GreyScale.ppm		
testTwoPixelGreyScale ComplexColor Author: Amelia Saldino	Delete test8GreyScale.ppm, if it exists \$ java -cp bin ImageEditor -G test-files/test8.ppm test-files/test8GreyScale.ppm	test8GreyScale.ppm is exactly the same as exp_test8GreyScale.ppm	test8GreyScale.ppm is exactly the same as exp_test8GreyScale.ppm
testTwoPixelGreyScale Unchanged Author: Amelia Saldino	Delete test9GreyScale.ppm, if it exists \$ java -cp bin ImageEditor -G test-files/test9.ppm test-files/test9GreyScale.ppm	test9GreyScale.ppm is exactly the same as exp_test9GreyScale.ppm	test9GreyScale.ppm is exactly the same as exp_test9GreyScale.ppm
Test ID	Description	Expected Results	Actual Results
testInvertLargeFile Author: Dr. Balik	S java -cp bin ImageEditor -I test-files/ColorfulCSC116.ppm test-files/InvertedCSC116.ppm	InvertedCSC116.ppm is exactly the same as exp_InvertedCSC116.ppm	InvertedCSC116.ppm is exactly the same as exp_InvertedCSC116.ppm
testHighContrastLarge File Author: Dr. Balik	Delete HighContrastCSC116.ppm, if it exists \$ java -cp bin ImageEditor -H test-files/ColorfulCSC116.ppm test-files/HighContrastCSC116.ppm	HighContrastCSC116.ppm is exactly the same as exp_HighContrastCSC116.ppm	HighContrastCSC116.ppm is exactly the same as exp_HighContrastCSC116.ppm
testGreyScaleLargeFile Author: Dr. Balik	Delete GreyScaletCSC116.ppm, if it exists \$ java -cp bin ImageEditor -G test-files/ColorfulCSC116.ppm test-files/GreyScaleCSC116.ppm	GreyScaleCSC116.ppm is exactly the same as exp_GreyScaleCSC116.ppm	GreyScaleCSC116.ppm is exactly the same as exp_GreyScaleCSC116.ppm

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