CAPS Test Suite:

!!!Make sure you delete entries in PYTHONPATH, PYTHON HOME, and PATH before you start testing!!!

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Description of tests in order:

CHECK EDITING CONFIG.PY:

just do the tests below with the config file pointing to a non-standard directory

JUST LAYERS:

tests loading and deleting raster and vector layers

CHECK DLGSCENARIOTYPES AND OPEN EDITING FILES AND BASE LAYER FILES:

tests if the correced base layers, constraints layers are loaded in proper order.

BASIC SCENARIO MENU CHECK

tests the basic scenario menu functions

CHECK ADD POINTS (also good for lines and polygons)

tests adding points/lines/polygons

CHECK COPY PASTE

tests copy and paste

CHECK TOOL SELECT

tests select tool behavior

CHECK SNAPPING OF NEW ROADS

tests snapping constraints checking and pasting constraints checking

CHECK SAVE SCENARIO AS:

tests save scenario as

CHECK SCENARIO IO ERRORS

tests scenario open in another app

CHECK SCENARIO MENU WITH EDITS:

tests cancel, save and discard in "Save Scenario" dialog

CHECK DISCARD EDITS:

test discarding edits

CHECK SCENARIO MENU MESSAGE BOXES:

tests save, cancel and discard dirty scenario

CHECK MODIFYING FEATURES ON A BASE LAYER

checks modify feats on a base layer

CHECK MODIFY FEATURES ON AN EDITING LAYER:

tests modify feats on an editing layer

CHECK PROJECT MANAGEMENT AND SFTP UPLOAD

Tests reading, writing, validating, isDirty and sftp functions

TEST EVERY READ/WRITE OCCURANCE IN THE APP WITH THE FILE OPEN

IN ANOTHER APP, WITH THE FILE NOT EXISTING ETC.

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JUST LAYERS:

Are buttons right on loading?

Click empty legend: any problems?

Load vector: are buttons right?

Delete vector in legend: does app go back to initial state?

Load raster: are buttons right?

Delete raster in legend: does app go back to initial state?

Load vector again: are buttons right?

Load raster with the vector: are buttons right?

Delete the raste and the vector: are the buttons right? is the selection right in the legend?

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CHECK DLGSCENARIOTYPES AND OPEN EDITING FILES AND BASE LAYER FILES:

start with new scenario and click edit scenario and choose a scenario edit type(SET)

are the editingLayer and baseLayer names correct and highlighted?

Is the color of the features in the base layer correct?

are the constraints layers loaded

save the scenario

start with the three editing layers open and drag another layer above them. click "edit scenario,” choose a SET

are the editingLayer, baseLayer and constraints layer names correct and highlighted?

Is the color of the features in the base layer correct?

does the editing layer get moved to the top of the layer list?

try for all editing types

save the scenario

start with the three editing layers, base layers and another layer above them and choose a new SET

are the editingLayer, base layer and constraints layer names correct and highlighted?

Is the color of the features in the base layer correct?

does the editLayer and the baseLayer get moved to the top of the layer list?

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BASIC SCENARIO MENU CHECK

Open a scenario" buttons OK?

Open a different scenario: buttons OK?

Make a change to open scenario (i.e. load layer)

Save scenario

Open a different scenario: should NOT get message

Open the previous scenario: Is the added layer there? Buttons OK?

Add another layer and click "Save Scenario As"

save the scenario with the same name

are buttons OK"

Click "New Scenario": should NOT get message

are buttons OK?

Open the previous scenario: is the added layer saved?

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CHECK ADD POINTS, LINES, POLYGONS

Chose a point scenario edit type (SET) and select the point editing layer. Does add points appear?

are selection buttons on? (they shouldn't be except for "Select Features")

deselect Edit Scenario: does Add Points disappear? are buttons right?

select Edit Scenario and chose a SET: does Add Points appear? are buttons correct?

Choose another edit scenario type: do I get any messages? (I shouldn't)

open a a raster layer: do I get any messages? (I shouldn't) Are add points deselected?, are all other buttons correct?

Select the points edit layer, and add a point: try to ‘open a scenario’ ? do I get prompted (I should)

click cancel: is selection correct in layer panel?

is my added point still there? are all buttons in the proper state?

select a ‘save scenario as’ and click discard: are the button states correct?

are my edits deleted?

select a point editing layer, make an edit and select manage projects.

click Yes: are my edits saved? Do I get ‘save scenario’ msg? click yes, are button states correct?

open remaining point SETs, add points and click the select button:

are symbols correct (square for dam, circle for culvert, diamond for ter crossing, star for tidal rest)

delete one added point: do I get a message box? (I should just get the delete message), are button states correct

select the second point and deselect it: do I get a message? I shouldn't are button states correct:

add another point and save the scenario: do I get a save edits message? I should. Select cancel.

click ‘new scenario’: do I get prompted? I should. Cancel and select open vector, do I get prompted? Shouldn’t

click ‘export scenario’ click cancel: does everything stay in the same state? selection correct in the layer menu?

Click ‘edit scenario’ click cancel: does everything stay in the same state? selection correct in the layer menu?

Make an edit to the edit\_scenario(points) layer.

select a raster layer and click ‘new scenario’ do I get msg? I shouldn’t. Choose to discard edits and click cancel in the

‘save scenario’ dialog. Is my point deleted?

remove a layer: do I get a message? I shouldn’t, remove a layer: remove a layer:

try to delete the edit\_scenario(points) layer. Do I get a message? I should. Click ‘no’ is everything the same?

try to delete the edit\_scenario(points) layer. Do I get a message? I should. Click ‘yes’ is everything the same?

close the app: do I get prompted to save? I should

click cancel: does the app stay open?

close the app: click discard, does the app close ok?, any open windows?

open the app, make a point edit, close the app and choose save: does the app close ok?

open the editing layer: is the edit that you saved there?

Make each of the three point edit types: is there a different symbol for each type?

Open the vector attribute table. Are the entries correct?

Chose a line scenario edit type (SET) and select the line editing layer. Does add lines appear?

are selection buttons on? (they shouldn't be except for "Select Features")

deselect Edit Scenario: does Add Lines disappear? are buttons right?

select Edit Scenario and chose a SET: does Add Lines appear? are buttons correct?

Choose another edit scenario type: do I get any messages? (I shouldn't)

open a a raster layer: do I get any messages? (I shouldn't) Are add lines deselected?, are all other buttons correct?

Select the lines SET, and add a line: try to ‘open a scenario’ ? do I get prompted (I should)

click cancel: is selection correct in layer panel?

is my added line still there? are all buttons in the proper state?

select a ‘save scenario as’ and click discard: are the button states correct?

are my edits deleted?

select a line editing layer, make an edit and select manage projects.

click ‘Save’: are my edits saved? Do I get ‘save scenario’ msg? click ‘Save’, are button states correct?

open line SETs, add lines and click the select button:

delete one added line: do I get a message box? (I should just get the delete message), are button states correct

select the second line and deselect it: do I get a message? I shouldn't are button states correct:

add another line and save the scenario: do I get a save edits message? I should. Select cancel.

click ‘new scenario’: do I get prompted? I should. Cancel and select open vector, do I get prompted? Shouldn’t

click ‘export scenario’ click cancel: does everything stay in the same state? selection correct in the layer menu?

Click ‘edit scenario’ click cancel: does everything stay in the same state? selection correct in the layer menu?

select a raster layer and click ‘new scenario’ do I get msg? I shouldn’t.

choose ‘save scenario as’ and discard in the ‘save scenario’ dialog. Is my line deleted?

remove a layer: do I get a message? I shouldn’t, remove a layer: remove a layer:

try to delete the edit\_scenario(lines) layer. Do I get a message? I should. Click ‘no’ is everything the same?

try to delete the edit\_scenario(lines) layer. Do I get a message? I should. Click ‘yes’ is everything the same?

close the app: do I get prompted to save? I should

click cancel: does the app stay open?

close the app: click discard, does the app close ok?, any open windows?

open the app, make a line edit, close the app and choose save: does the app close ok?

open the editing layer: is the edit that you saved there?

Open the vector attribute table. Are the entries correct?

Chose a polygon scenario edit type (SET) and select the polygon editing layer. Does add polygons appear?

are selection buttons on? (they shouldn't be except for "Select Features")

deselect Edit Scenario: does Add Polygons disappear? are buttons right?

select Edit Scenario and chose a SET: does Add Polygons appear? are buttons correct?

Choose another edit scenario type: do I get any messages? (I shouldn't)

open a a raster layer: do I get any messages? (I shouldn't) Are add polygons deselected?, are all other buttons correct?

Select the polygons edit layer, and add a polygon: try to ‘open a scenario’ ? do I get prompted (I should)

click cancel: is selection correct in layer panel?

is my added polygon still there? are all buttons in the proper state?

select a ‘save scenario as’ and click discard: are the button states correct?

are my edits deleted?

select a polygon editing layer, make an edit and select manage projects.

click Yes: are my edits saved? Do I get ‘save scenario’ msg? click yes, are button states correct?

open remaining polygon SETs, add polygons and click the select button:

delete one added polygon: do I get a message box? (I should just get the delete message), are button states correct

select the second polygon and deselect it: do I get a message? I shouldn't are button states correct:

add another polygon and save the scenario: do I get a save edits message? I should. Select cancel.

click ‘new scenario’: do I get prompted? I should. Cancel and select open vector, do I get prompted? Shouldn’t

click ‘export scenario’ click cancel: does everything stay in the same state? selection correct in the layer menu?

Click ‘edit scenario’ click cancel: does everything stay in the same state? selection correct in the layer menu?

Make an edit to the edit\_scenario(polygons) layer.

select a raster layer and click ‘new scenario’ do I get msg? I should. Choose to discard edits and click cancel in the

‘save scenario’ dialog. Is my polygon deleted?

remove a layer: do I get a message? I shouldn’t, remove a layer: remove a layer:

try to delete the edit\_scenario(polygons) layer. Do I get a message? I should. Click ‘no’ is everything the same?

try to delete the edit\_scenario(polygons) layer. Do I get a message? I should. Click ‘yes’ is everything the same?

close the app: do I get prompted to save? I should

click cancel: does the app stay open?

close the app: click discard, does the app close ok?, any open windows?

open the app, make a polygon edit, close the app and choose save: does the app close ok?

open the vector layer: is the edit that you saved there?

Open the vector attribute table. Are the entries correct?

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CHECK COPY PASTE

select a vector, make a selection and click copy: does selection get cleared? (it should)

is select button deactivated (it should be), are buttons right?

select another vector layer: does anything happen? (it shouldn't) are buttons right?

select a raster layer: do I get a msgBox? (I should)

click Add Raster: do I get a msgBox? (I should not), is the layer loaded? (it should be)

click paste: do I get a message? I should, are all buttons correct?

click Add Vector: do I get a msgBox? (I shouldn't)

click paste: are the features pasted into the layer?, are the buttons right?

make a selection, click copy and choose another point vector layer:

click paste: are the features pasted?

make a selection, choose another nonpoint vector layer and click paste:

do I get a msgBox? (I should)

select a point layer and click paste: are the features pasted?, are all buttons right?

make a selection, click copy and remove a layer: do I get msg box? (I should not)

click the Edit Scenario button: do I get a message box? I should not

is select button deactivated? is selection cleared, is the layer removed?

make a selection, click copy and remove the layer you are working on:

do I get a msgbox? (I should not)

make a selection, click copy and click the "toggle edit" button

do I get a messagebox? (I should), choose cancel

click the edits button again and click discard: is the copy deleted?

make a selection, click copy and close the app: do I get a message? (I shouldn't )

click cancel: does the app stay open?,

close the app again: click discard, does the app close properly?

open a vector layer, make selection and click delete:

do I get a message box? (I should)

click cancel: is everything OK

make a selection and click delete: do I get a message box? (I should)

are the features deleted?

click cancel: is the select tool still on? (it should be)

is the select button still depressed? (it should be), are buttons ok?

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CHECK TOOL SELECT

Add a vector layer and click tocolSelect: are buttons right?

click clear selelection: do I get msgBox? (I should), are buttons still right?

click delete selection: do I get msgBox?, are buttons still right?

click copy selection: do I get msgBox?, are buttons still right?

make a selection and click clear selelection: do I get msgBox? (I shouldn't)

are buttons still right? is selection cleared?

is select features button deselected? (it shouldn't be)

open Vector Attribute table, make a selection and click delete selection:

do I get msgBox? (I should), are buttons still right?

is selection deleted?, did attribute table update?

is the select features button deselected? (it should be)

choose zoom to layer extent from the legend context menu: did the extents update properly?

make a selection: any messages? there shouldn't be

close the app: did you get a message? you shouldn't,

open a vector, make a selection, close the app and click discard, any problems?

open a vector, make a selection, close the app and click cancel

does the app stay open? it should

open a vector, make a selection and click Add Raster: are buttons right?

click the vector layer: are buttons right?, make a selection

With vector layer selected, delete some layer:

are buttons correct for the newly selected layer?

try both vector and raster new selections

Select a vector layer, make a selection and remove some layer:

Do I get a msg box? (I shouldn't ), select cancel, is layer remove cancelled?

is select button still activated? (it should be), is selection still active? (it should be)

Make a selection and click all other buttons: do things work properly?

select a raster and click all other buttons: do things work properly?

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CHECK SNAPPING OF NEW ROADS

open a 'Add roads' scenario edit type and try adding a new road not on an existing road.

Do I get an error message? I should

Add a road that starts on an existing road. Does it work? It should

Add a road that starts near but not on a new road. If too far, do I get error? I should.

Add a road that starts near a new road. Does it snap to new road? Do I get error? I shouldn't.

Open a lines 'test' layer and try copying and pasting a new road not on an existing road. Should get error.

Copy and paste one new road on and one new road off an existing road. Should get error.

Copy and paste 3 new roads on existing road. Did they paste? They should

open a terrestrial passage scenario edit type and add not on a road or new road. Do I get error? I should.

Add a terr passage on a new road. Do I get error? Does it snap to new road?

Adopen a points 'test' layer and copy and paste a terr passage not on a road. Should get error.

copy and paste one on and one off a road. Should get error.

copy and paste 3 new ter passages on roads. Should workd a ter passage on an existing road. Do I get error?

open a bridge culvert scenario edit type and add a point not on a new road or stream.

Do I get an error? I should.

Add a point on a new road but not on a stream. Do I get an error? I should.

Add a point on a new road and on a stream.

Do I get an error? I shouldn't. Is the point snapped to the new road?

open a points 'test' layer and copy and paste a culvert not on a stream. Should get error.

copy and paste one on and one off a stream. Should get error.

copy and paste 3 new culverts on streams. Should work

open a dam scenario edit type and add a dam not on a stream. Do I get an error? I should.

Add a dam on a stream centerline. Does it work? It should

open a points 'test' layer and copy and paste a dam not on a stream. Should get error.

copy and paste one on and one off a stream. Should get error.

copy and paste 3 new dams on streams. Should work

open a tidal restriction scenario edit type and try to add not on a stream. Do I get error? I should.

Add a tidal restriction on a stream. Does it work? It should.

open a points 'test' layer and copy and paste a tr not on a stream. Should get error.

copy and paste one on and one off a stream. Should get error.

copy and paste 3 new trs on streams. Should work

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CHECK SAVE SCENARIO AS:

1) open the app, save the scenario as s1. Does the directory get created?, the caps file?

click "New Scenario" and reopen. Is everything correct?

2) open a new vector file and "save scenario as" with the same name. Click New Scenario

reopen the saved scenario. Are the layers correct?,

3) add a all 3 scenario type edits to editing shapefiles, save the scenario as with the same name,

Click "new scenario" then reopen, are the layers correct with edits? are the shapefile in the directory?

export the scenario, export it again to check for overwrite problems

4) save this scenario with a new name 's2'. Are the editing layers copied? is the export scenario copied?

5) add a layer, and overwrite the old scenario s1. are the layers correct?, the editingfiles? the export file?

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CHECK SCENARIO IO ERRORS

Open a scenario. Any error messages? No is dirty? No

New scenario. any messages? No is dirty at end? No

Open an image as a scenario. Should get error. is dirty? No

Open a scenario, add layer and save. message? No; dirty start?; Yes dirty end? No

Open the same scenario in Word and save in CAPS. message Yes. dirty? No

Add layer to scenario, close Word, save file. message? No, dirty start? Yes, dirty end? No

Save the scenario with another name. message? No, dirty start? No dirty end? No

Add a layer, open some scenario in Word, try to save as the file open in Word.

message? Yes. Dirty start? Yes; dirty end? yes

Close Word. save as previously open file in Word. message? NO; dirty start? Yes dirty end? No

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CHECK SCENARIO MENU WITH EDITS

Load 2 layers, make edit and click on "New Scenario"

should get message

try cancel, save and cancel file dialog, save

Reopen saved scenario

everything OK? Buttons?, scenario same?

Load 2 layers, make edit and click on "New Scenario": get message

click discard. Buttons OK?,

Load 2 layers, make edit and click on "Open Scenario":should get message

try cancel, save and cancel file dialog, save

Reopen saved scenario

everything OK? Buttons?, scenario same?

Load 2 layers, make edit and click on "Open Scenario": get message

click discard. Buttons OK?

Load 2 layers, make edit and click on "Export Scenario": should get message

try cancel, save and cancel file dialog, save

Load 2 layers, make edit and click on "Export Scenario": get message

click discard. Buttons OK?,

Load 2 layers, make edit and click on Exit: should get message

try cancel, save and cancel file dialog, save

Load 2 layers, make edit and click on "Exit": get message

click discard. Buttons OK?

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CHECK DISCARD EDITS (01/31/12)

make some point edits and save and then make some more point edits, click save scenario, discard and cancel

are correct points discarded? is save button OK, are symbols ok?

make some point edits and save and then make some more point edits, make another layer the active layer,

click save scenario, discard and cancel

are correct points discarded? is save button OK?

delete base layer features and save, then delete some more, click open scenario, discard and cancel

are correct points discarded? is save button OK?

delete base layer features and save, then delete some more, make another layer the active layer, click open scenario, discard and cancel

are correct points discarded? is save button OK?

modify base layer features and save, then modify some more, click save scenario as, discard and cancel

are corre

ct points discarded? is save button OK?

copy some points from a "paste points" layer and paste into the editing layer and save, copy some more

click edit scenario, discard and cancel

are correct points discarded? is save button OK?

click edit scenario, discard and cancel

are correct points discarded? is save button OK?

delete a point on the paste points layer. is everything OK?

make some line edits and save and then make some more line edits, click save scenario as, discard and save with a new name.

are correct lines discarded? is save button OK?

delete a line on the paste lines layer. is everything OK?

copy some lines from a "paste lines" layer and paste into the editing layer and save, copy some more

click close app, discard. Reopen app.

are correct lines discarded? is save button OK?

make some polygon edits and save and then make some more polygon edits and discard.

are correct polygons discarded? is save button OK?

copy some points from a "paste polygons" layer and paste into the editing layer and save, copy some more and discard

are correct polygons discarded? is save button OK?

delete a polygon on the paste points layer. is everything OK?

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CHECK SCENARIO MENU MESSAGE BOXES

Load 2 layers and click on "New Scenario": should get message

try cancel, save and cancel file dialog, save

Reopen saved scenario: everything OK? Buttons?, scenario same?

Load 2 layers and click on "New Scenario": should get message

click discard. Buttons OK?,

Load 2 layers and click on "Open Scenario": should get message

try cancel, save and cancel file dialog, save

Reopen saved scenario: everything OK? Buttons?, scenario same?

Load 2 layers and click on "Open Scenario": should get message

click discard. Buttons OK?

Load 2 layers and click on "Export Scenario": should get message

try cancel, save and cancel file dialog, save

Load 2 layers and click on "Export Scenario": should get message

click discard. Buttons OK?,

Load 2 layers and click on Exit: should get message

try cancel, save and cancel file dialog, save

Load 2 layers and click on "Exit": get message

click discard. Buttons OK?

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CHECK MODIFYING FEATURES ON A BASE LAYER

select 4 points on a points base layer, click modify, modify the points,

are the features modified?, are all buttons correct, are the symbols correct?

select 4 points on a points base layer, click modify, modify 3 points, click cancel, click yes

are the features modified (they shouldn't be)?, are all buttons correct, symbols correct?

select 4 points on a points base layer, click modify, modify 3 points, click cancel, click no and continue

are the features modified (they should be)?, are all buttons correct?

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CHECK MODIFY FEATURES ON AN EDITING LAYER:

open a points layer, make 6 edits, select 3 edits and click modify features (clear console), modify the features.

are the features modified?, are all buttons correct, are the symbols correct?

do the same for lines and polygons.

select 3 points edits, click modify, modify two features(clear console), cancel and select "yes"

are 2 of the three modified, are symbols correct (they should be)?, are all buttons correct?

select 3 points edits, click modify, modify two features, cancel and select no then finish modifying

are the original features changed (they shouldn't be), are all buttons correct, are symbols correct?

open the points editing layer in QGIS and modify edits. What happens? close QGIS

open the points dbf file in open office. modify edits. What happens? If I get a warning dialog,

are the features unchanged on the editing layer?, are buttons correct?

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CHECK PROJECT MANAGEMENT AND SFTP UPLOAD

Click “New Scenario,” open the manage projects dialog and save a project.

Open project management (pm) dialog. Do widgets have correct messages? Are scenario exports displayed?

Can you move scenario exports back and forth?

Try to save a project. Get validation error? You should.

Fill in one field at a time and save. Get appropriate validation errors?

Save a project without an export file and try to send. Correct validation error?

Add csv files and save. Is file in file system and in projects drop down list?

Create another project. Did appropriate "Create project" msg display?

Open first project. Display ok?

Delete one of the csv files in the project from the file system and open the project. Should get error.

Send the first project. Successful send? Is date sent filled in? Did 'sending' msg show?

Remove the date manually and resend. Should get error message. Is date sent filled in? Should not be.

Add the send date back manually. Try to save a project with the same name as the "sent" project. Should get error.

Open the sent project and try to edit. Should not be able to.

Make an edit to a "new project" and try to open another project. Get isDirty msg? You should.

Open an unsent project and try to edit a different field and then try to display another project.

Should get message.

Try to edit a project and 'cancel' the dialog. Should get isDirty msg.

Try to delete a sent project. Should get msg.

Try to delete an unsent project. Is it missing from the file system?

Try to edit a scenario that has been sent. Can I do it? Probably yes. Should I do anything about that? Maybe rename them as ‘sent’?

Open the sftp dialog.

Try to change all SFTP settings and save. Reopen the dialog. Did it work?

Set settings back. Did it work?

DONE!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!