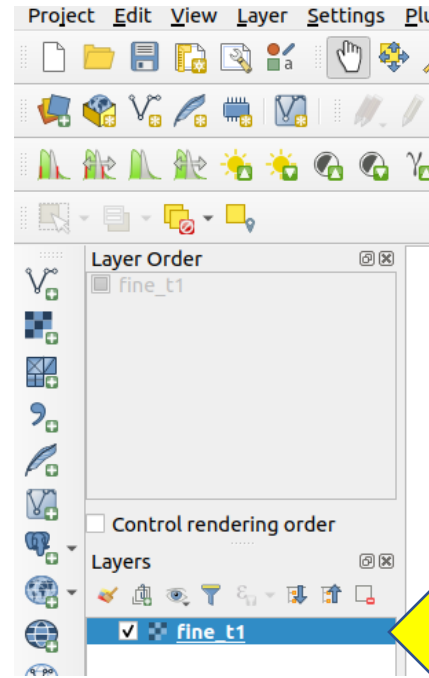


Manual for Imputation

- Load raster files into QGIS.



Step 1: Load Raster Files

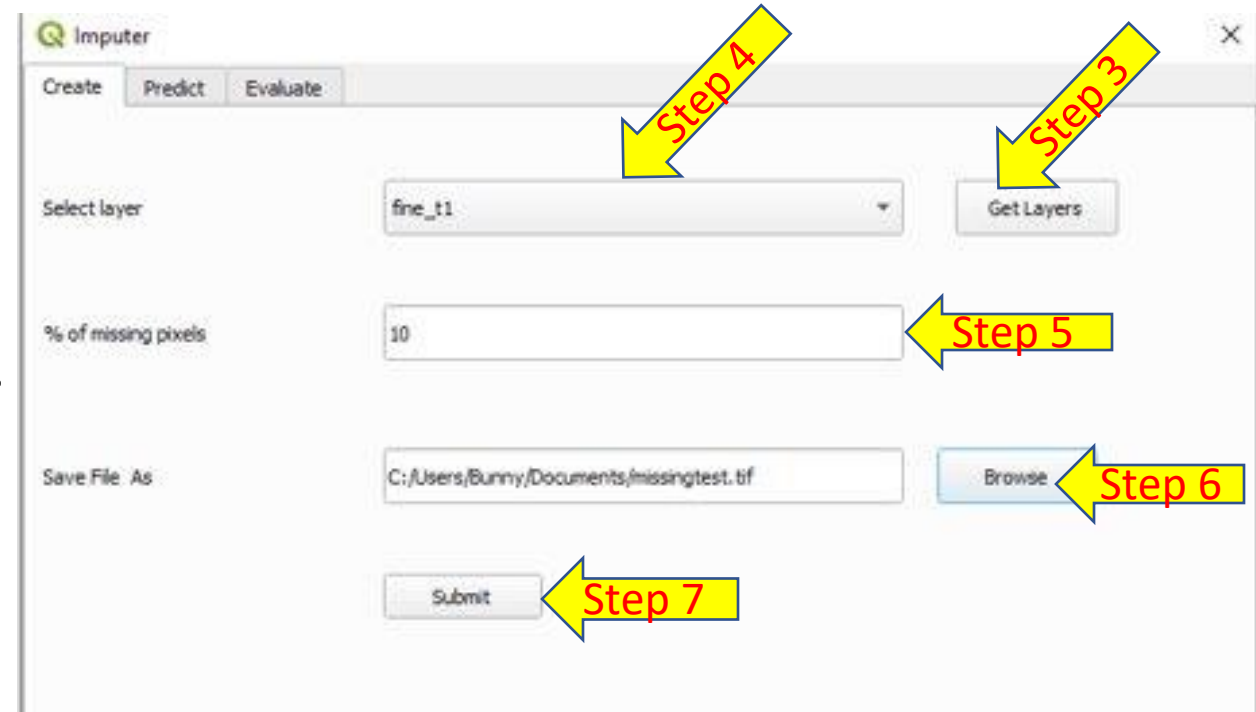
- Install imputation plugin from zip file (Refer Installation manual).



Step 2: Click on the icon

Creating Missing Pixels for Imputation

- Imputation GUI appears as below.
- Step 3 : Click on Get Layers button.
- Step 4 : Select layer from combo box.
- Step 5 : Enter % of missing pixels.
- Step 6 : Click browse button, select output directory and enter output file name.
- Step 7 : Click on submit button to run the program.



Predicting Missing Pixels

- Step 1 : Click on Predict tab.
- Step 2 : Load missing pixels file into QGIS.
- Step 3 : Click on Get Layers button.
- Step 4 : Select layer from combo box.
- Step 5 : Click browse button, select output directory and enter output file name.
- Step 6: Select Algorithm from combo box and enter tensor rank. (Recommended : CMTF)
- Step 7 : Select speed of Algorithm.
Fast – less iterations, Slow – more iterations.
Enter tolerance(default : 0.0001)
- Step 8 : Click on submit button to run the program.

The screenshot shows the 'Imputer' window in QGIS, specifically the 'Predict' tab. The interface includes several input fields and buttons, with yellow arrows and labels indicating the sequence of steps for using the tool:

- Step 1:** Points to the 'Predict' tab.
- Step 2:** Points to the 'missing' layer selected in the 'Select layer' dropdown.
- Step 3:** Points to the 'Get Layers' button.
- Step 4:** Points to the 'missing' layer in the 'Select layer' dropdown.
- Step 5:** Points to the 'Browse' button next to the 'Save File As' field.
- Step 6:** Points to the 'CMTF' algorithm selected in the 'Select Algorithm' dropdown.
- Step 7:** Points to the 'fast' speed selected in the 'Speed of Algorithm' dropdown.
- Step 8:** Points to the 'Submit' button.

The form fields are as follows:

- Select layer:** missing
- Save File As:** C:/Users/Bunny/Documents/CMTF.tif
- Select Algorithm:** CMTF
- Estimated Tensor Rank:** 12
- Speed of Algorithm:** fast
- Tolerance:** 0.0001

Evaluation

- Step 1 : Click on Evaluate tab.
- Step 2 : Load imputed file into QGIS.
- Step 3 : Click on Get Layers button.
(for ground truth and imputed layer)
- Step 4 : Select ground truth layer from combo box.
- Step 5 : Select imputed layer from combo box.
- Step 6 : Click on submit button and the RSE value is displayed.



