

GIS software	Data hierarchy in comparison with GRASS GIS	Has startup screen? Is always displayed? How does it look like?	Association file	Features for enhancing first-time user experience	Does it allow the incorrect display of two layers of different coordinate systems on top of each other?
QGIS 3.14	<p>Project - as GRASS workspace or location, project contains layers</p> <p>Layers in one project do not have one clearly defined directory as it is in GRASS GIS</p>	<p>Yes, always displayed. It has a startup screen but not as a separate dialog box. The News and selection of project are part of the main software window.</p>	<p>Yes, we can start through association file associated with project file (.qgz)</p>	<p>Welcome to QGIS window referring to QGIS website</p> <p>Main software window - informs a user about news</p> <p>Info Bars - general information and warnings for all users</p>	<p>No, it does not. Layers in the Map are displayed correctly using "on the fly" transformation.</p>
gvSIG 2.5.0	<p>Project - as GRASS workspace or location, project contains layers, similar to QGIS 3</p> <p>Layers in one project do not have one clearly defined directory as it is in GRASS GIS</p>	<p>No, it does not have any startup screen. When started an empty map window opened.</p>	<p>Yes, we can start through association file associated with project file (.qvsproj)</p>	<p>No features, however everything is quite straightforward.</p>	<p>No, it does not. Layers in the Map are displayed correctly using "on the fly" transformation.</p>
ILWIS 3.3	<p>The data is similarly to GRASS stored in one place in disk - in the home directory called Data. The imported layer is saved in Data directory as an ILWIS object with the *.ioc extension</p>	<p>No, it does not have any startup screen.</p>	<p>No, after startup it reflects the current state of the Data folder</p>	<p>No features.</p>	<p>Probably not since the software gets confused and the added layer in different CRS is not displayed even after clicking "Zoom to layer" function.</p>
SAGA GIS 2.3	<p>Project - as GRASS workspace, is created only when we save the settings to a SAGA GIS project file.</p> <p>Displayed layers do not have their given folder. They can be stored anywhere on the disk.</p>	<p>Yes, after the second start of SAGA GIS, a small selection dialog box appears. First start displays blank Map window.</p> <p>Options: Blank page, the last software state, last running projects</p>	<p>Yes, we can start through association file associated with project file (.sprj)</p>	<p>No features.</p>	<p>Yes, layers with different coordinate systems may be incorrectly displayed at the level of one map.</p>

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GRASS GIS 7.9 after GSoC	<p>Database has the character of a directory containing Locations.</p> <p>Location (Project) defines in which coordinate a user work. It contains Mapsets.</p> <p>Mapset (Subproject) gathers GIS layers related to one project task.</p>	<p>Yes, but only if a mapset is not in a usable state (was deleted or is used by another process). In this special situation, GRASS starts in the same way as in the version 7.8.</p>	<p>No, we can save our work to workspaces that can be opened through File menu.</p>	<p>No features. However, according to Survey 1 Question 1, improving the Data Catalog has enhanced the user experience, regardless of whether it is the first-time user or not.</p>	<p>No, it does not. Map Display only display layers in the current mapset which has a clearly defined CRS according to the location in which it is located.</p>