

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?
ArcGIS Pro 2.4	Project - similar to GRASS workspace, each project has its own database in which we store data	Yes , startup screen always displayed	Yes , we can start through association file associated with project file (.aprx)	Startup screen - very straightforward and provides four different types of templates	No , it does not. Layers in the map are displayed correctly using "on the fly" transformation.
	Map - associated with Map Window, possible to have several Maps (Map Windows)	Open options: Open recent projects, open another project			
	Map - has one CRS similarly as GRASS location but can contain layers with different CRS which are On the fly transformed to the Map's CRS	Create options: Blank Templates (Map, Catalog, Global Scene, Local Scene, Start without template (can be saved later)		Main software window - no features that should specifically help the first-time user	
GeoMedia Advantage 2020	GeoWorkspace - as GRASS workspace	Yes , always displayed. It has a form of small dialog box for selecting GeoWorkspace file	Yes , we can start through association file associated with GeoWorkspace file (.gws)	Startup screen - this is only a dialog box for selecting a GeoWorkspace file	No , it does not. Within the map window we can have more different GeoWorkspace files with diverse CRS and the software supports "on the fly" transformation. The coordinate systems that are defined for the the map window are named Locations.
		Open options: Open an existing GeoWorkspace file		The software provides two GeoWorkspace templates	
	Warehouse (.mdb) - has the character of a database. You need to define it first, then connect to it. It has a clearly defined coordinate system, ie a similar role as GRASS location. One GeoWorkspace file can have multiple Warehouses attached.	Create options: Create a new GeoWorkspace file using Blank file or Template,		Main software window - It does not provide any elements that would help a newcomer to start. Connection of warehouses is very unintuitive and just displaying an ordinary shapefile costs a lot of effort.	
MapInfo 2019	Workspace - as GRASS workspace	Yes , startup screen always displayed, occupies the entire computer screen	Yes , we can start through association file associated with workspace file (.wor)	Startup screen - very straightforward, provides Getting Started info, MapInfo News, hyperlink to connect with User Groups	No , it does not. When importing data, a file with the company's own data format (.tab) is created and transformed. Thus, a data transformation occurs. The CRS is set to Map level, not layer level.
	Map - associated with Map Window, possible to have several Maps (Map Windows)	Open options: Open blank workspace, recent workspaces, sample workspace, last saved session (not for first-time user)		Furthermore, it provides one very comprehensive Washington DC Sample	
	Map - has one CRS similarly as GRASS location and contained layers have the same CRS			Main software window - no features that should specifically help the first-time user, all is included in startup screen	