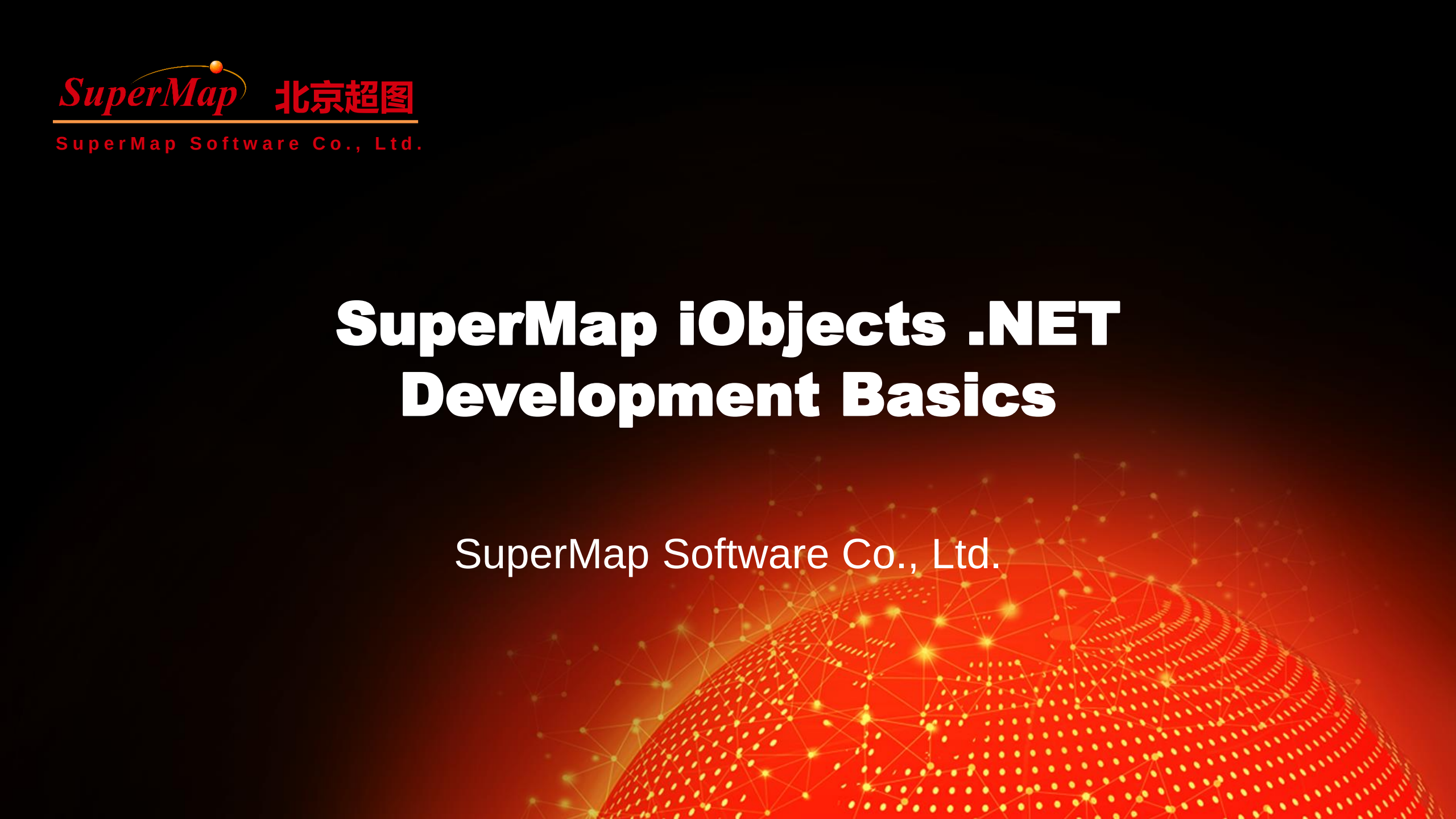
SuperMap 北京超图

SuperMap Software Co., Ltd.

SuperMap iObjects .NET Development Basics

SuperMap Software Co., Ltd.



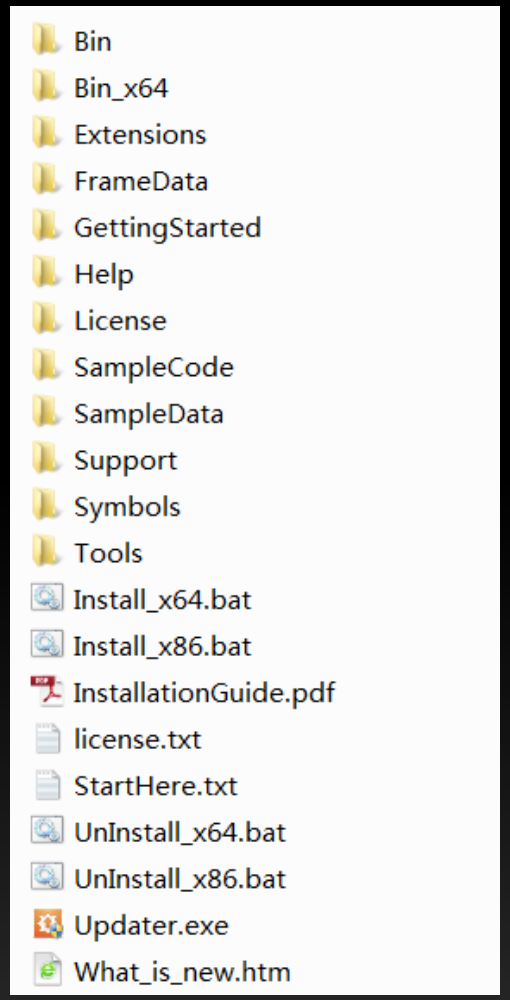
Main Contents

- Use of Help Resources
- Review of Concepts of SuperMap GIS
- Object Structure Overview

Use of Help Resources

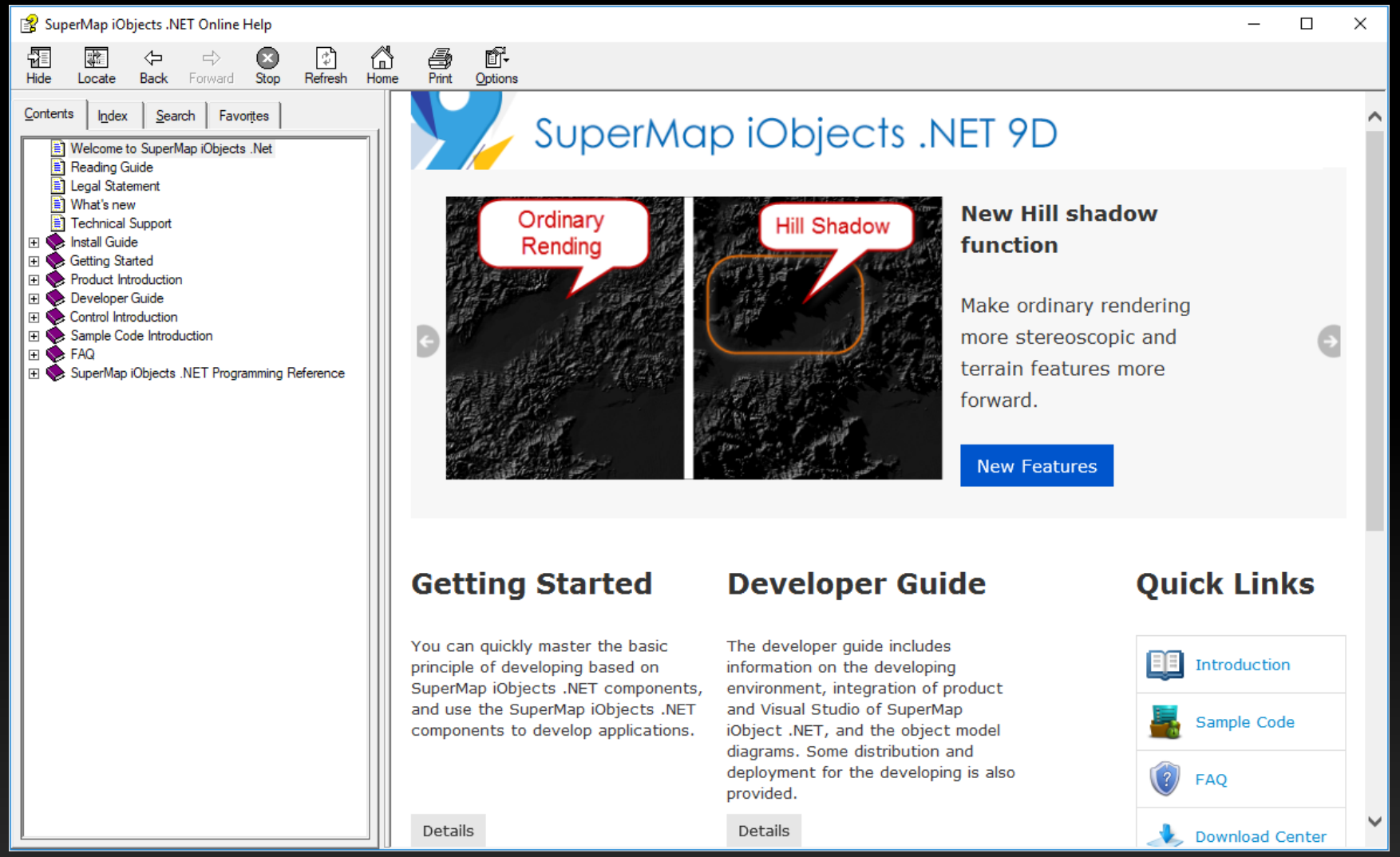
- Installation Directory
- Help Document
- Sample Code

Installation Directory

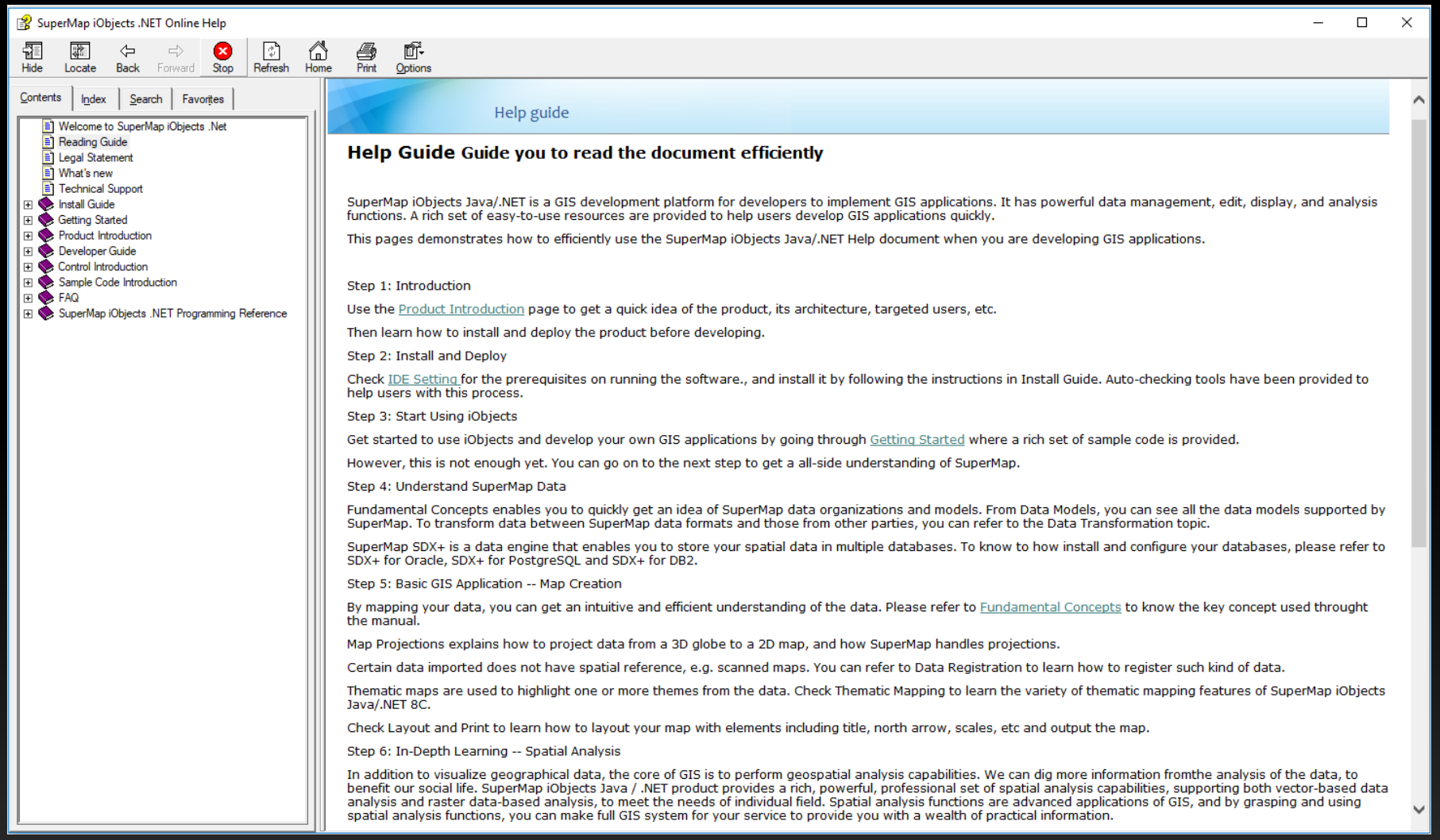


- Bin/Bin_x64: SuperMap iObjects .NET system, various dynamic libraries and language packs.
- FrameData : 3D framework data offered by the product.
- GettingStarted: Code for the Getting Started program.
- Help: Online help, and documents of Hxs and other formats.
- License: License declaration files for dependent third party libraries.
- SampleCode: Sample code programs.
- SampleData: Sample data served as the operation data for sample programs and the Getting Started program.
- Support: Visual C++ 2008 redistributable package, .NET Framework 4.0.
- Tools: Auxiliary tools, such as DEPENDS.EXE used to view dependencies between dynamic link libraries, the integration tools for development environments, the registration tool for the help document, and so on.

Help Document



Guide of Help Document



Replacements for Obsolete APIs

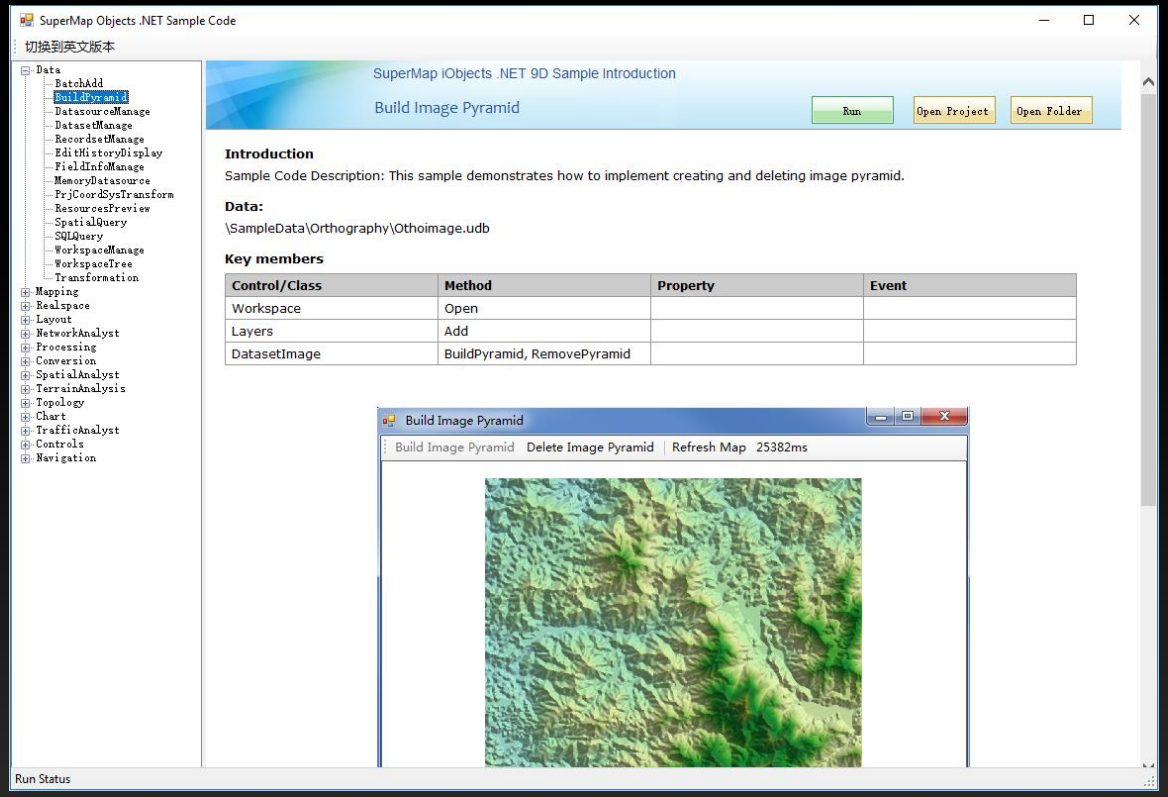
	Name	Description
	Build	Builds the vector cache.
	BuildTexture	**Obsolete.** Create texture image according to the index path and the hierarchy.
	BuildToFile	Generates OSGB format based on point-cloud data.
	BuildWithoutConfigFile	Builds vector cache for vector data. The vector cache setting file will not be built by this method.
	ComputeFileName	**Obsolete.** Gets the file list specified by the Bounds, Level and OutputFolder of this instance. The filename is absolute path.
	ComputeLevel	**Obsolete.** Computes the appropriate count of the cache level for the dataset.
	Dispose	Releases all resources that the object occupies.
	FromConfigFile	Imports the cache file and specify the properties according to the configuration file.
	GetIntensionFieldName	Gets the field name to generate cache.
	SetIntensionFieldName	Sets the field and field type of the point-cloud cache.
	ToConfigFile	Outputs the properties of the object to the specified file. The suffix the file is .scv.

Units for All Numeric Values

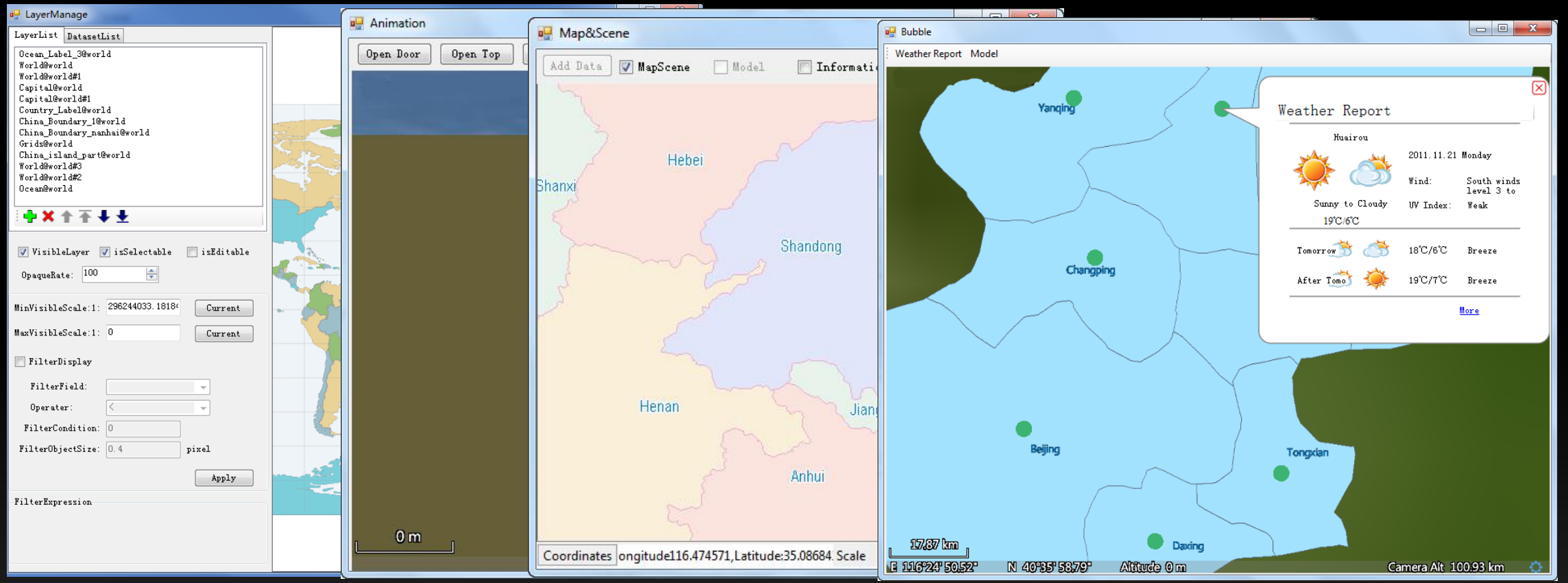
	FillOpaqueRate	The fill opacity. The value ranges from 0 to 100, with 0 indicating fully transparent and 100 indicating fully opaque. Values less than 0 and greater than 100 will be taken as 0 and 100 respectively.
	FillSymbolID	The ID of the fill symbol. It is used to uniquely identify the fill symbol.
	LineColor	The color of the line symbol or marker symbol.
	LineSymbolID	The ID of the line symbol. It is used to uniquely identify the line symbol.
	LineWidth	Gets or sets the width of the line symbol, and the unit is millimeter and accurate to 0.1 millimeter.
	MarkerAngle	Gets or sets he rotation angle of the marker symbol. The rotation direction is anticlockwise and the unit is degree.The rotation angle is accurate to 0.1 degrees. This angle can be used as fill symbol rotation in common fill style.
	MarkerSize	Gets or sets the size of the marker symbol. The unit is millimeters and the accuracy is 0.1 millimeters.
	MarkerSymbolID	The ID of the marker symbol. It is used to uniquely identify the marker symbol.

Sample Code

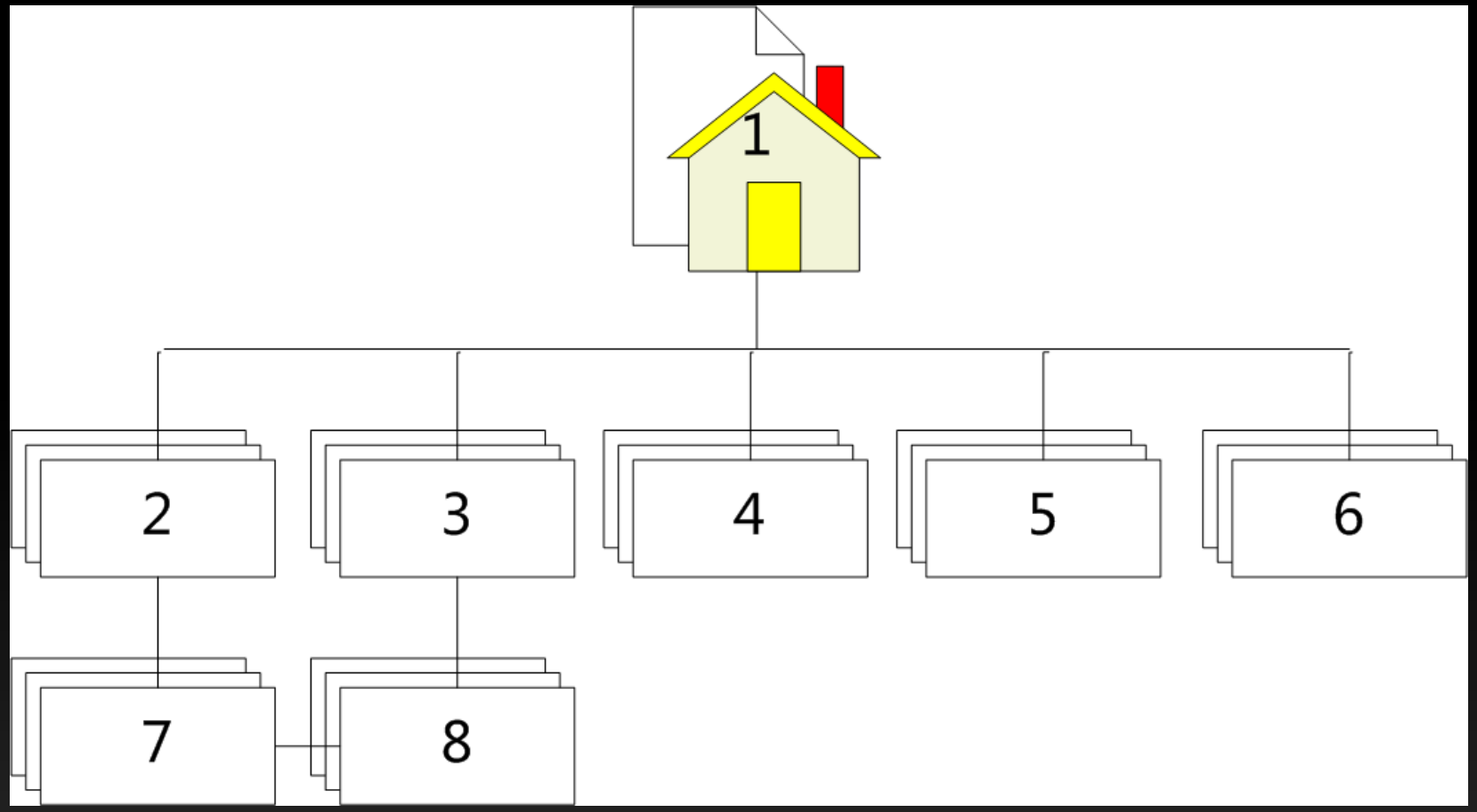
- The SampleCode folder under the product installation directory
  - SuperMap\iObjects .NET 9D\SampleCode\ Startup.exe



Sample Code

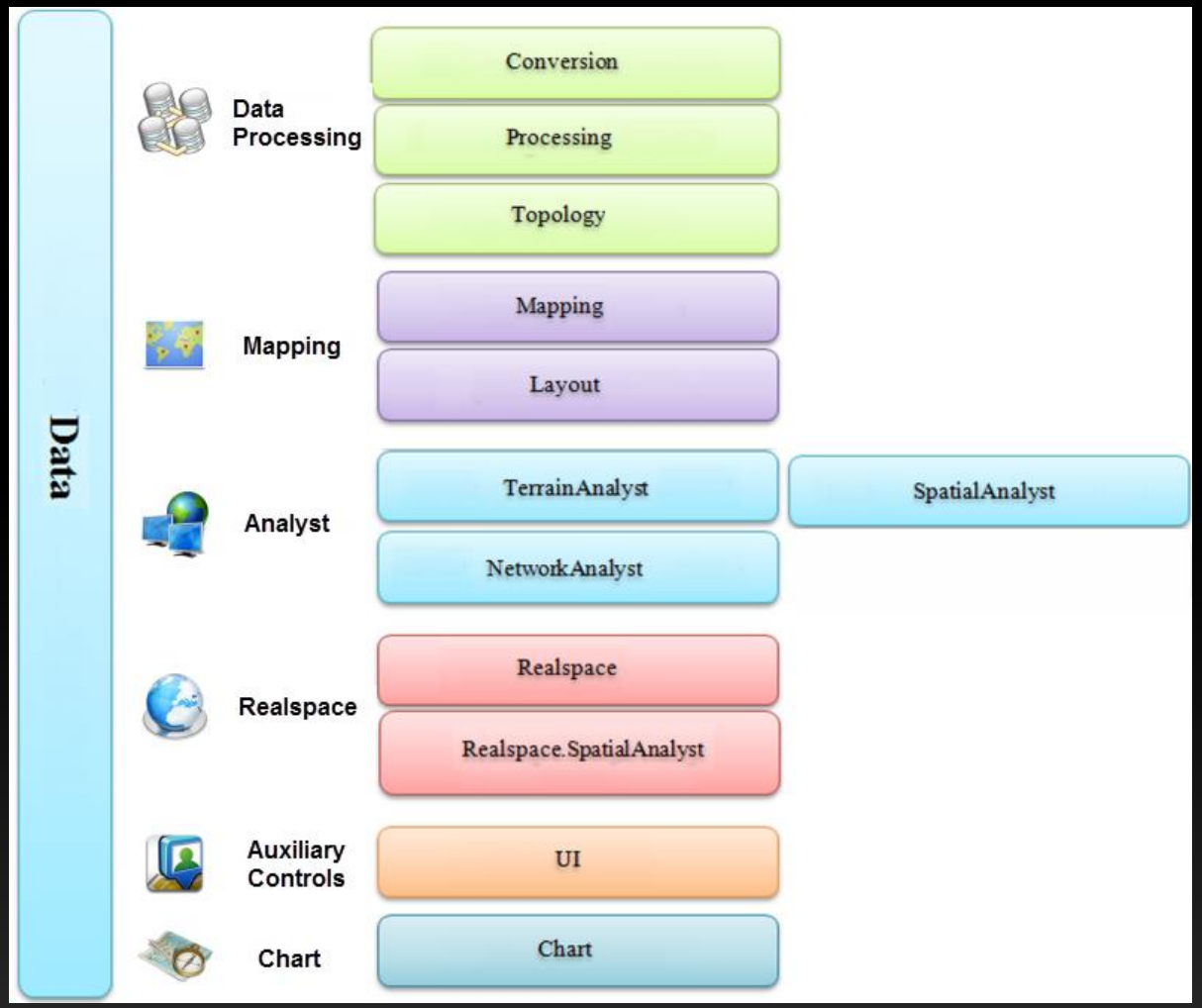

LayerManage
LayerList
DatasetList
Ocean_Label_3@world
World@world
World@world#1
Capital@world
Capital@world#1
Country_Label@world
China_Boundary_1@world
China_Boundary_nanhai@world
Grids@world
China_island_part@world
World@world#3
World@world#2
Ocean@world
VisibleLayer
isSelectable
isEditable
OpaqueRate:
100
MinVisibleScale:1:
296244033.1818
Current
MaxVisibleScale:1:
0
Current
FilterDisplay
FilterField:
Operater:
FilterCondition:
FilterObjectSize:
pixel
Apply
FilterExpression
Animation
Open Door
Open Top
0 m
Map&Scene
Add Data
MapScene
Model
Hebei
Shanxi
Shandong
Henan
Anhui
Coordinates
ongitude116.474571,Latitude:35.08684. Scale
Bubble
Weather Report
Model
Yanqing
Changping
Beijing
Tongxian
Daxing
Weather Report
Huairou
2011.11.21 Monday
Wind:
South winds level 3 to
Sunny to Cloudy
UV Index:
Weak
19℃/6℃
Tomorrow
18℃/6℃
Breeze
After Tomo
19℃/7℃
Breeze
More
17.87 km
E 116°24' 50.52"
N 40°35' 58.79"
Altitude 0 m
Camera Alt 100.93 km

Review of Concepts of SuperMap GIS

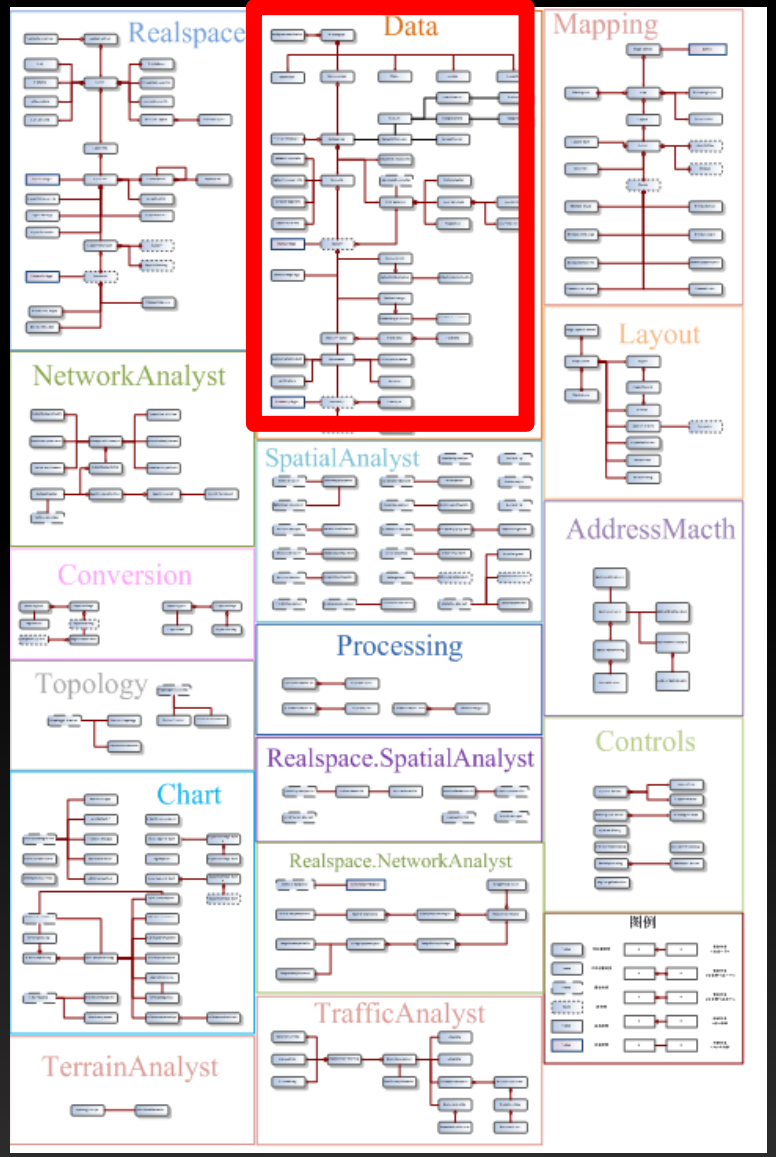


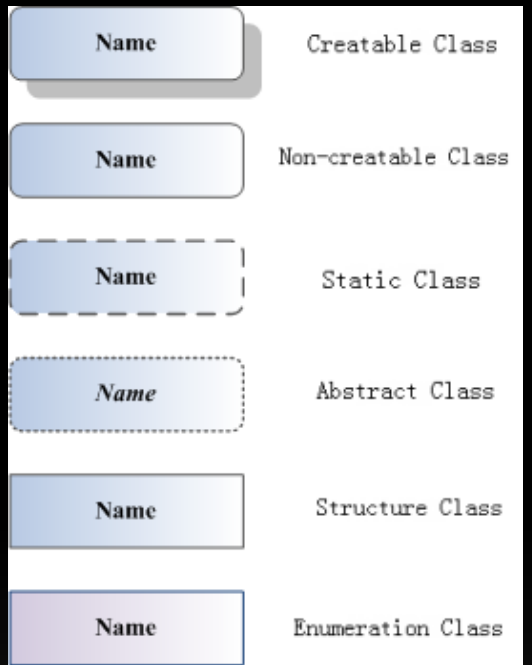
- Workspace
- Datasource
- Map
- Layout
- Resources
- Scene
- Dataset
- Layer

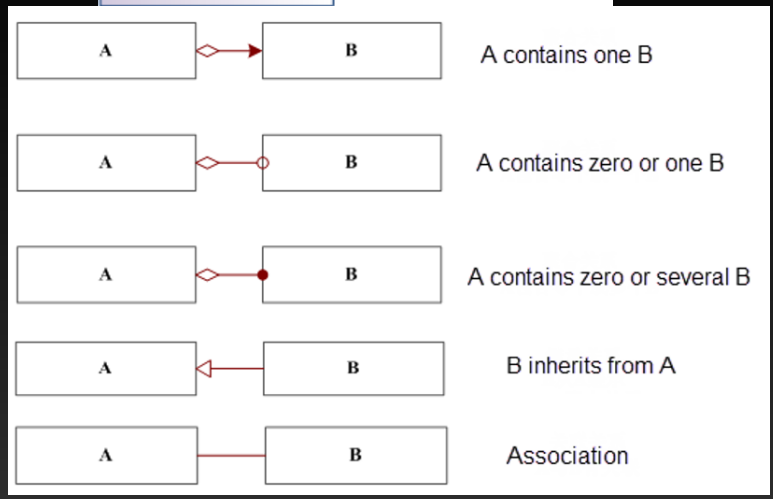
Object Structure Overview (1)



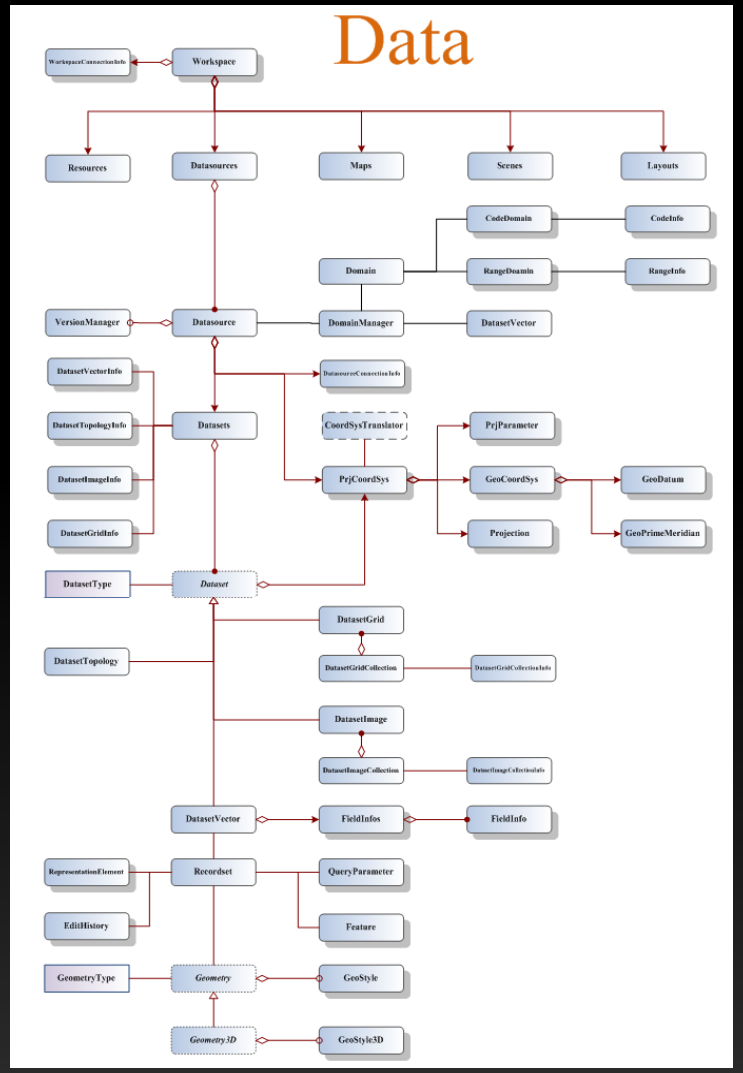
Object Structure Overview (2): OSD



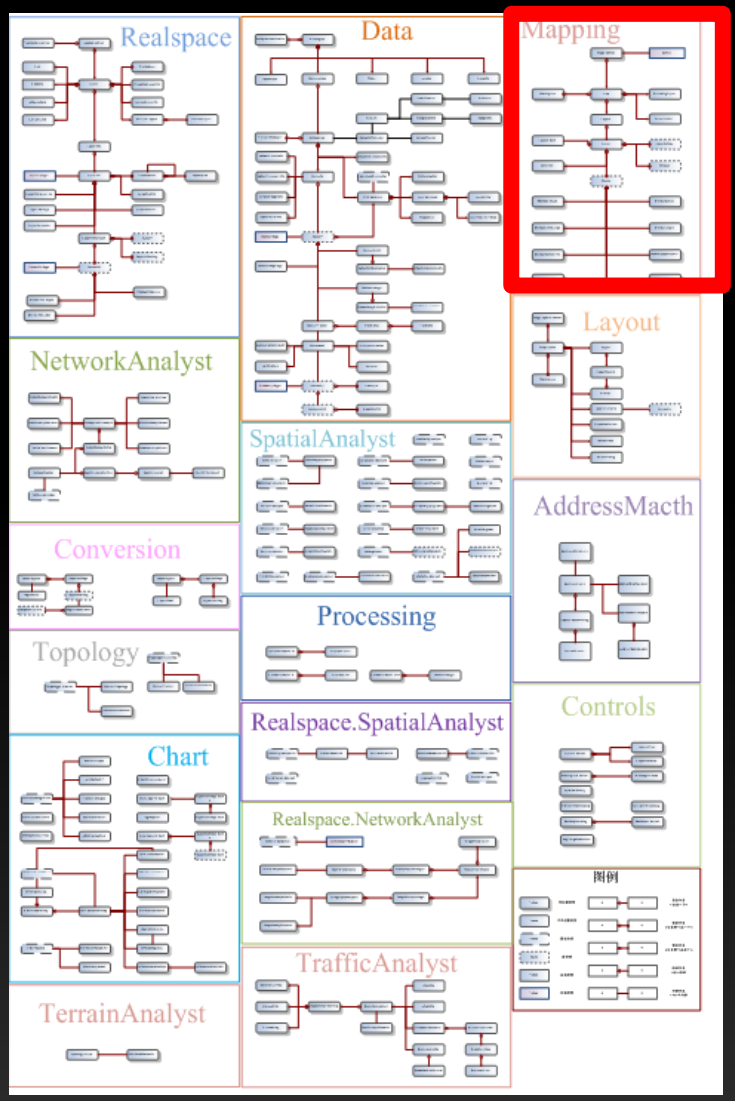




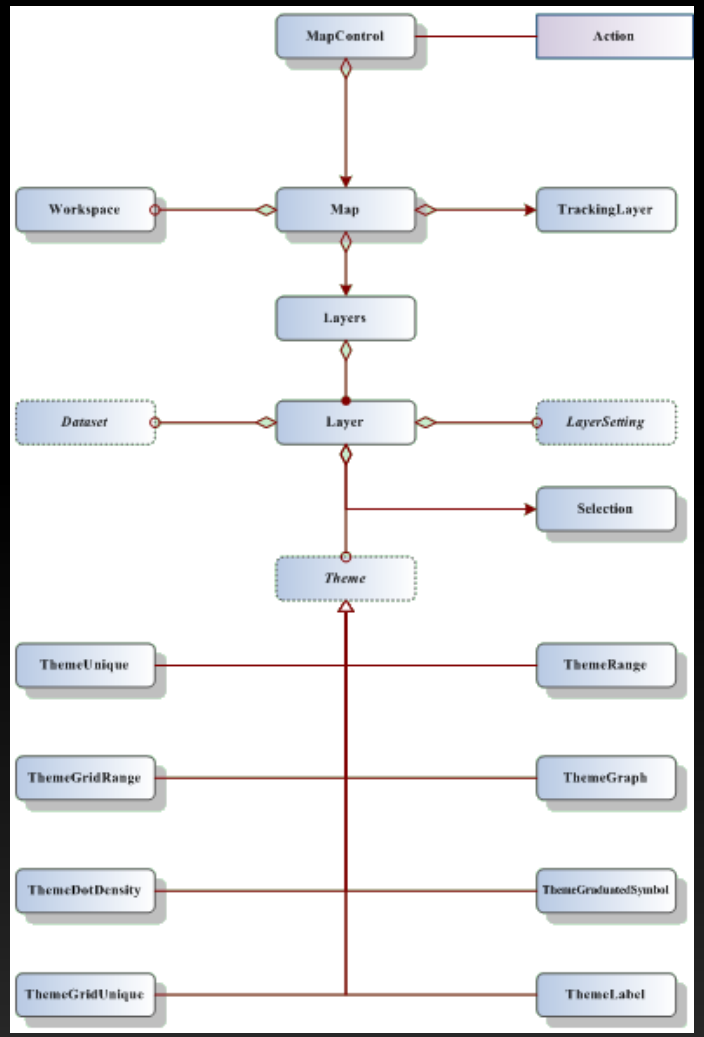
Data Module


Data
WorkspaceConnectionInfo
Workspace
Resources
Datasources
Maps
Scenes
Layouts
CodeDomain
CodeInfo
Domain
RangeDoamin
RangeInfo
VersionManager
Datasource
DomainManager
DatasetVector
DatasetVectorInfo
DatasourceConnectionInfo
DatasetTopologyInfo
Datasets
CoordSysTranslator
PrjParameter
DatasetImageInfo
PrjCoordSys
GeoCoordSys
GeoDatum
DatasetGridInfo
Projection
GeoPrimeMeridian
DatasetType
Dataset
DatasetGrid
DatasetTopology
DatasetGridCollection
DatasetGridCollectionInfo
DatasetImage
DatasetImageCollection
DatasetImageCollectionInfo
DatasetVector
FieldInfos
FieldInfo
RepresentationElement
Recordset
QueryParameter
EditHistory
Feature
GeometryType
Geometry
GeoStyle
Geometry3D
GeoStyle3D

Object Structure Overview (2): OSD



Mapping Module



SuperMap 北京超图

SuperMap Software Co., Ltd.

Thanks!