ArcGIS®

10.2

ArcGIS for Desktop Functionality Matrix

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ArcGIS® 10.2 for Desktop Functionality Matrix

ArcGIS® for Desktop allows you to author geographic information to examine relationships; analyze your data; test predictions; and, ultimately, make better decisions. It is available in three license levels—Basic, Standard, and Advanced. These license levels have the same integrated applications, user interfaces, and development environment.

Mapping

Map Interaction

	Basic	Standard	Advanced
Map Navigation			
Pan, Zoom, and Rotate the Map	+	+	+
Find an X,Y (Latitude-Longitude) Location on a Map	+	+	+
Zoom to the Full Study Area of the Map	+	+	+
Zoom to the Extent of a Layer	+	+	+
Zoom to the Visible Scale of a Layer	+	+	+
Zoom to a Specific Map Scale	+	+	+
Use Spatial Bookmarks	+	+	+
Access Hyperlinks	+	+	+
Use Dynamic MapTips	+	+	+
Use Magnification Window	+	+	+
Interactively Reveal Areas beneath a Specific Layer (Swipe)	+	+	+
Save and Manage Locations for Use with Multiple Maps (My Places)	+	+	+
Create, Organize, and Share Spatial Bookmarks	+	+	+
Pan and Zoom the Map with the Mouse Wheel	+	+	+
Pan and Zoom to Selected Features	+	+	+
Turn Any Tool into a Navigation Tool Using Hot Keys	+	+	+
Create Hyperlink to External Application, Macro, or URL	+	+	+
Use Overview Window	+	+	+
Use Viewer Windows for Displaying Different Parts of a Map	+	+	+
Use Multiple Viewer Windows for Separate Data Frames	+	+	+
Queries			
Identify Features in the Map	+	+	+
Interactively Measure Distances and Areas	+	+	+
Find Features in the Map	+	+	+
Find Places Using the ArcGIS® Online World Gazetteer	+	+	+
Find North American and European Addresses Using ArcGIS® Online	+	+	+
Find an Address Using Local or Custom Locators	+	+	+
Show Related Data with Field Properties	+	+	+
View and Toggle Layer Selectability in Table of Contents	+	+	+
Select Data by Location	+	+	+
Select Data by Attribute	+	+	+
Interactively Select/Unselect Features	+	+	+
Unselect All, Switch the Selection, or Select All Features	+	+	+
Access Attribute Table and Layer Properties from Identify Dialog Box	+	+	+
Tables			
Flash, Zoom to, Pan to, Select, and Identify Individual Features in a Map Based on a Record in the Attribute Table	+	+	+
Interactively Highlight Selected Records/Features	+	+	+
Zoom to and Unselect Highlighted Records/Features	+	+	+
Interactively Add and Remove Records from a Selection	+	+	+
Copy Selected Records for Pasting into Other Applications	+	+	+
Turn Fields Off and On and Change Field Order and Size	+	+	+
Modify a Table's Appearance by Changing Cell and Field Size, Font, and Color	+	+	+
Use Field Properties of Joined Tables	+	+	+
Reorder Fields	+	+	+
See Properties of Joins and Relates from Table Properties	+	+	+
Sort a Table by Multiple Fields	+	+	+
Drag Multiple Tables into the Table Window as Tabs	+	+	+
Create a Graph or Report	+	+	+
Find and Replace Attribute Values	+	+	+
Open Attachment Manager for Any Record (When Attachments Are Enabled on the Layer)	+	+	+
Graphs			
Plot Data from a Variety of Datasets in a Single Graph	+	+	+
Create 2D and 3D Graphs	+	+	+
Overlay Multiple Graphs in a Single Graph	+	+	+
Selections Automatically Propagate between Map, Table, and Graph	+	+	+
Graph Types			
Horizontal and Vertical Bar, Line, and Area	+	+	+
Histogram Bar	+	+	+
Scatterplot	+	+	+
Scatterplot Matrix	+	+	+
Box Plot	+	+	+
Bubble	+	+	+
Polar	+	+	+
Pie	+	+	+
Routing Using ArcGIS Online or Network Datasets (StreetMap™ USA)			
World Route Service (Requires Subscription)	+	+	+
Add Route Stops from Addresses and Existing Features and Interactively Add Stops on the Map	+	+	+
Add Route Barriers from Addresses and Existing Features and Interactively Add Stops on the Map	+	+	+
Snap Stops to Closest Address Using an Address Locator	+	+	+
Customize the Route for Quickest or Shortest Route	+	+	+
Reorder the Stops to Find the Fastest Route between Unordered Stops	+	+	+
Modify Speed and Restriction Attributes of the Routing Service	+	+	+
Specify Trip Planning Timing (Start, Stop, Breaks, etc.)	+	+	+
Generate HTML Directions Using an Overview Map, Turn-by-Turn Maps, and Vicinity Maps	+	+	+

Map Display

	Basic	Standard	Advanced
General Mapping			
Analyze Map for Potential Display Optimizations	+	+	+
Visualize the Map Page or a Specific Set of Data	+	+	+
Perform On-the-Fly Projection of All Data	+	+	+
Set Spatial Reference by Selection, Name Filter, or Spatial Filter	+	+	+
Set Custom/Compound Datum Transformation for Your Map Extent	+	+	+
Enable Full Cartographic Visualization of Any PMF File	+	+	+
Interactively Set Percent Transparency for All Data Layers	+	+	+
Legends Honor Layer Transparency	+	+	+
Set a Minimum and Maximum Scale to Display Data	+	+	+
Create Custom Relative Scales	+	+	+
Clip the Map Display to a Feature or Graphic	+	+	+
Create Graticules, Measured Grids, and Reference Grids	+	+	+
Create Extent Rectangles for Other Data (Reference and Overview Maps)	+	+	+
Create Variable Depth Layer Masking	+	+	+
Convert Graphics (Point, Line, Polygon, Text) to Features	+	+	+
Create High-Performance Basemap Layers Computed Once for Any Area	+	+	+
Add Data Menu Accesses Basemaps and Data from ArcGIS Online	+	+	+
Quick Pan Mode for Continuous Navigation of Basemap and Accelerated Raster Layers	+	+	+
Tabular Data			
Create On-the-Fly Dynamic Joins between Different Databases	+	+	+
Join Dialog Box Supports Join Validation Prior to Execution	+	+	+
Create and Use Many-to-One and One-to-Many Relationships	+	+	+
Create Statistics	+	+	+
Summarize Data	+	+	+
Calculate Field Values of All or Selected Rows	+	+	+
Interactively Change the Visibility of Fields	+	+	+
Simplify Field Names with Field Aliases	+	+	+
Display Numeric Fields Formatted as Currency, Direction, Percentage, etc.	+	+	+
Create Charts and Reports and Mailing Labels	+	+	+
Build Detailed Reports Using Esri® Report Wizard	+	+	+
Connect to and Use Remote Database Tables	+	+	+
Display Tabular X,Y Point Data from a File or Table on a Map	+	+	+
Vector Data Display			
Control Selection Color for Each Dataset	+	+	+
Create MapTips	+	+	+
Fix Symbology to a Specific Map Scale	+	+	+
Create a New Layer from a Selection	+	+	+
Control Which Features to Display Using a SQL Query	+	+	+
Control Which Data Fields Are Accessible from the Map	+	+	+
Thematic Vector Data Classifications			
Single Symbol	+	+	+
Unique Value	+	+	+
Match to Predefined Style	+	+	+
Graduated Colors or Symbols	+	+	+
Proportional Symbols	+	+	+
Dot Density Mapping with Scale-Driven Density Management	+	+	+
Chart Mapping Including Pie and Bar Chart	+	+	+
Bivariate and Multivariate Data Rendering	+	+	+
Interactive Histogram for Data Classification	+	+	+
Symbology			
Use Interactive Symbol Composer	+	+	+
Control Symbol Draw Order	+	+	+
Access More than 19,500 Predefined Symbols	+	+	+
Search for Symbols by Descriptive Tag	+	+	+
Add or Modify Symbol Search Tags	+	+	+
Use Halos and Advanced Background Symbols	+	+	+
Define Symbols for Fill, Lines, Outlines, and Points	+	+	+
User-Imported Picture Symbols (PNG, JPEG, GIF)	+	+	+
Elevation Surface Display			
TIN Contour with Index Contours	+	+	+
TIN Face, Aspect, Elevation, Slope	+	+	+
Digital Elevation Model (DEM) Hillshade with Sun Position Control	+	+	+
DEM Shaded Relief Using Hillshade and Elevation	+	+	+
Terrain Contour with Index Contours	+	+	+
Terrain Face, Aspect, Elevation, Slope	+	+	+
DEM Elevation	+	+	+
Raster Data Display			
Display Multiband Images by Assigning Color Values to the Bands	+	+	+
Display Raster Products from Image Sensor Raw and Metadata	+	+	+
Use Individual Band Settings	+	+	+
Display Each Unique Value with a Discrete Color	+	+	+
Display Image Values Using a Color Map	+	+	+
Display Multiband Raster Data Using Color Values	+	+	+
Save Current Display Statistics	+	+	+
Control Raster Display Contrast and Brightness	+	+	+
On-the-Fly Orthorectification	+	+	+
On-the-Fly Pan-chromatic Sharpening	+	+	+
On-the-Fly Hillshade Effect for Elevation Data	+	+	+
Display Raster Catalog Tiles as a Time Series	+	+	+
Import Renderer or Statistics from Another Layer	+	+	+
Display Raster Values While Navigating the Map with MapTips	+	+	+
Display Raster Resolution in Map Table of Contents	+	+	+
Apply and Edit Raster Function Chains	+	+	+
Accelerated Display Mode for Raster Layers	+	+	+
Raster Display: Gradual Color Ramp Data-Stretching Algorithms			
Standard Deviations	+	+	+
Histogram Equalize	+	+	+
Interactive Histogram	+	+	+
Minimum–Maximum	+	+	+
Custom	+	+	+
None	+	+	+
Esri Stretch (Modified Sigmoid)	+	+	+
Raster Panchromatic Sharpening			
Bovey	+	+	+
Esri	+	+	+
Gram-Schmidt	+	+	+
IHS (Intensity Hue Saturation)	+	+	+
Simple Mean	+	+	+
Raster Display Statistics			
Based on the Entire Raster Dataset	+	+	+
Based on the Display Extent	+	+	+
Based on a Custom Extent	+	+	+
Based on an Automated Sampling of Pixels	+	+	+

Map Display (continued)

	Basic	Standard	Advanced
Raster Display Resample Methods			
Nearest Neighbor	+	+	+
Bilinear Interpolation	+	+	+
Cubic Convolution	+	+	+
Majority	+	+	+
Raster Display Classification Methods			
Manual Interval	+	+	+
Equal Interval	+	+	+
Defined Interval	+	+	+
Quantile Interval	+	+	+
Natural Breaks (Jenks)	+	+	+
Geometrical Interval	+	+	+
Standard Deviation	+	+	+
Raster Catalog Footprint Display			
Footprints Only	+	+	+
Selected Footprints	+	+	+
Raster Tools			
Pixel Inspector	+	+	+
Swipe Layer Tool	+	+	+
Image Analysis Window	+	+	+
Time Animation and Temporal Data			
Create Time Series, Layer Transition, or Map Navigation Animation Only	+	+	+
Animate Data Change with Tabular (Charts), Vector, Raster Catalog, and NetCDF Data	+	+	+
Export Animations as Sequential Images	+	+	+
Create Video from Sequential Images	+	+	+
View Temporal Data with the Time Slider	+	+	+
View Live Temporal Data in Real Time	+	+	+

Page Layout and Printing

	Basic	Standard	Advanced
Map Elements			
Title	+	+	+
Text	+	+	+
Neatlines	+	+	+
Legend (may be dynamically generated from features in the map)	+	+	+
North Arrows	+	+	+
Scale Bar (may be multiple scales with a common zero anchor)	+	+	+
Scale Text	+	+	+
Pictures	+	+	+
OLE Objects	+	+	+
Measured Reference Grid	+	+	+
Graticules	+	+	+
Export Formats			
Enhanced Metafile (EMF)	+	+	+
Windows Bitmap (BMP)	+	+	+
Encapsulated PostScript (EPS)	+	+	+
Tagged Image File Format (TIFF)	+	+	+
Portable Document Format (PDF)	+	+	+
Joint Photographic Experts Group (JPEG)	+	+	+
Portable Network Graphics (PNG)	+	+	+
Graphic Interchange Format (GIF)	+	+	+
Scalable Vector Graphics (SVG)	+	+	+
Adobe Illustrator (AI)	+	+	+
PostScript Color Separates (with Page Marks)	+	+	+
Print with the Following Print Drivers			
Windows	+	+	+
PostScript	+	+	+
ArcPress® HP RTL (RGB, CMYK, and Monochrome)	+	+	+
ArcPress Epson Universal	+	+	+
ArcPress HP Universal	+	+	+
Process Print Jobs on the Local Machine for Faster Printing	+	+	+

Publishing and Sharing Maps and Data

	Basic	Standard	Advanced
Creating High-Performance Dynamic Maps			
Analyze Maps for Errors, Unsupported Content, Performance Tips	+	+	+
Create Basemap Layers for Static Background Data	+	+	+
Preview Your Maps and Estimated Rendering Time	+	+	+
Publish a Map to ArcGIS for Server[1]	+	+	+
Sharing Maps, Layers, and Data			
Consolidate Layers, Maps, Locators, or Results[2] into a Folder		+	+
Create a Layer Package File	+	+	+
Upload a Layer Package File to ArcGIS Online and Share It	+	+	+
Extract a Layer Package	+	+	+
Create a Map Package File	+	+	+
Upload a Map Package File to ArcGIS Online and Share It	+	+	+
Extract a Map Package	+	+	+
Share a Map as a Service[3] to an Enterprise[5] or Cloud[6] Server	+	+	+
Search for Maps, Data, and Tools in Local, Enterprise[5], or Cloud[6] Sources	+	+	+
Share Map File Caches to Local, Enterprise[5], or Cloud[6] Users	+	+	+

[1] Requires ArcGIS for Server

[2] Geoprocessing Results

[3] Feature Service or Cached Map Tile Service

[4] ArcGIS Online, Portal for ArcGIS, or Cloud-Hosted ArcGIS for Server instance

Publishing and Sharing Analysis

	Basic	Standard	Advanced
Sharing Geoprocessing			
Create and Share[3] Geoprocessing Results as Packages	+	+	+
Create and Share[3] Geoprocessing Results as Services	+	+	+
Sharing Geocoding			
Create and Share[3] Locator Packages		+	+

[3] Share locally or to an ArcGIS Online or Portal for ArcGIS instance.

Automating Map Workflows

	Basic	Standard	Advanced
Using the ArcPy™ Mapping Module			
Export and Print Maps	+	+	+
Manage Documents and Layers	+	+	+
Create and Manage Map Series and Books	+	+	+
Export Reports	+	+	+
Create and Analyze Map Service Definitions	+	+	+
Convert Web Map JSON to Map Document	+	+	+

Map Text

	Basic	Standard	Advanced
Labels			
Set Default Label Engine and Font Name for Your Map Document	+	+	+
Creating Dynamic On-the-Fly Labels	+	+	+
Automatic Conflict Detection and Label Placement	+	+	+
Label Placement Rules for Setting Priority between Layers	+	+	+
Placement Rules for Setting Importance of Labels vs. Features	+	+	+
Many Predefined Label Styles (e.g., Highway Shields)	+	+	+
Labels Rotate from an Attribute Field	+	+	+
Multiple Dynamic Labeling Schemes Built for Each Map Layer	+	+	+
Control Which Features in a Layer Display Labels	+	+	+
Advanced Text Formatting Tags for Dynamic Label Symbology	+	+	+
Add Logic to Label Expressions with JScript, Python, and VBScript	+	+	+
Annotation			
Use Interactive Label Tools (Callout, Label, Spline, and Paragraph Text)	+	+	+
Create Text Annotation Data from Labels	+	+	+
Annotation Editing			
Interactively Move, Rotate, and Scale Annotation	+	+	+
Add Horizontal or Angled Annotation	+	+	+
Add Annotation with a Leader Line	+	+	+
Create Annotation That Follows a Curved Line or the Shape of an Existing Feature	+	+	+
Dynamically Pull Annotation Values from Layers in the Map	+	+	+
Interactively Manage Annotation That Could Not Be Placed during Initial Annotation Creation	+	+	+
Edit Each Word in an Annotation String Independently	+	+	+
Interactively Stack and Unstack Annotation	+	+	+
Flip Annotation Strings	+	+	+
Interactively Modify the Curvature and Orientation of a Line	+	+	+
Edit the Symbology of a Single Annotation Feature or a Group of Annotation Features Simultaneously	+	+	+
Annotation and Dimensions Management			
Store Annotation in a Geodatabase or a Map Document	+	+	+
Create Annotation Subclasses		+	+
Create Aligned Dimensions Displaying the True Distance between Points		+	+
Create Linear Dimensions Displaying Horizontal, Vertical, or an Angled Distance between Points		+	+
Create and Edit Feature-Linked Annotation Feature Classes in a Geodatabase		+	+

Advanced Labeling[6]

	Basic	Standard	Advanced
Advanced Label Placement Rule Set			
Create Advanced Labels	+	+	+
Advanced Python Expression Parser	+	+	+
Street Placement	+	+	+
Customizable Dynamic Stacking	+	+	+
Font Reduction	+	+	+
Customizable Abbreviation and Label White Space Management	+	+	+
Polygon Boundary Placement	+	+	+
Repeated Labeling	+	+	+
Character Spreading	+	+	+
Word Spreading for Polyline and Polygon Labels	+	+	+
Label Overrun on Features	+	+	+
Curved Polygon Placement	+	+	+
Graticule Labeling Alignment	+	+	+
User-Defined Point Label Zones	+	+	+
Background Labeling	+	+	+
Land Parcel Placement	+	+	+
Advanced Feature Weighting	+	+	+
Advanced Label Offsets	+	+	+
Advanced Line Label Positions	+	+	+
Advanced Curved Label Placement	+	+	+
Watermark-Style Background Labels	+	+	+
Geologic Strike and Dip Symbology	+	+	+
Asian Vertical Text Metric Support	+	+	+
Polygon Hole Avoidance for Callouts	+	+	+
Polygon Zone (Internal, External) Placement	+	+	+
Long Boundary Label Repetition	+	+	+
Logically Continuous Feature (Street, River, Contour) Placements	+	+	+
Label Fitting by Key Numbering into an Overflow Table	+	+	+

[6] The advanced labeling functionality is available as a setting in the Data View tab in the ArcMap Options dialog.

Advanced Cartography

	Basic	Standard	Advanced
Cartographic Editing Tools			
Store Multiple Representations of GIS Features in a Geodatabase for Use in a Variety of Map Products		+	+
Create Rules That Dynamically Manipulate the Geometry and Symbology of a Feature (Representation Rules)		+	+
Share Representation Rules through Style Files		+	+
Change the Shape or Symbology for a Single Feature without Changing the GIS Data It Represents		+	+
Define Feature Visibility and Transparency for Each Feature or Based on an Attribute		+	+
Mask Individual Features or Parts of Features without Masking All Features in a Layer		+	+
Dynamically Place Point Symbols along Lines or Polygons		+	+
Dynamically Modify the Geometry That Is Displayed for a Feature (Geometric Effects)		+	+
Point Geometric Effects			
Buffer		+	+
Radial from Point		+	+
Regular Polygon		+	+
Line Geometric Effects			
Add Control Points		+	+
Arrow		+	+
Buffer		+	+
Cut		+	+
Dashes		+	+
Enclosing Polygon		+	+
Extension		+	+
Jog		+	+
Move		+	+
Offset		+	+
Offset Tangent		+	+
Reverse		+	+
Rotate		+	+
Scale		+	+
Simplify		+	+
Smooth		+	+
Suppress		+	+
Tapered Polygon		+	+
Wave		+	+
Polygon Geometric Effects			
Add Control Points		+	+
Buffer		+	+
Cut		+	+
Dashes		+	+
Donut		+	+
Enclosing Polygon		+	+
Move		+	+
Offset		+	+
Rotate		+	+
Scale		+	+
Simplify		+	+
Smooth		+	+
Wave		+	+
Interactive Symbol Editing			
Use the Marker Editor to Edit the Characteristics of a Point Symbol		+	+
Edit the Entire Representation or a Small Portion of One or More Representations		+	+
Move an Entire Symbol		+	+
Move Line Symbols Parallel		+	+
Tool Dialog Boxes Accept Multiple Units of Measurement		+	+
Add, Delete, or Move Symbol Vertices		+	+
Modify the Geometric Effects of a Symbol: Line Width, Hatch Size		+	+
Move Linear Geometries Parallel		+	+
Reshape and Move a Feature to Align One Specified Point with Another (Warp)		+	+
Erase All or Part of a Symbol		+	+
Resize a Feature Symbol by Resizing Its Bounding Box		+	+
Resize a Feature and Its Geometric Effects Simultaneously Using a Ratio		+	+
Rotate Feature Symbols Interactively or by a Specific Angle		+	+
Orient a Symbol to a Specific Angle		+	+
Reshape Symbols with Bézier Curves		+	+
Specify Locations along a Symbol Where a Pattern Must Apply (Control Points)		+	+
WYSIWYG Feedback		+	+
Geoprocessing Graphic Quality			
Detect Graphic Conflict			+
Propagate Displacement			+
Resolve Building Conflicts			+
Resolve Road Conflicts			+
Geoprocessing Masking Tools			
Cul-de-Sac Masks			+
Feature Outline Masks			+
Intersecting Layers Masks			+
Geoprocessing Representation Management			
Add Representation	+	+	+
Calculate Representation Rule	+	+	+
Drop Representation	+	+	+
Remove Override	+	+	+
Select Feature by Override	+	+	+
Set Layer Representation	+	+	+
Update Override	+	+	+
Geoprocessing Symbolization Refinement			
Align Marker to Stroke or Fill			+
Calculate Grid Convergence Angle			+
Calculate Line Caps			+
Calculate Polygon Main Angle			+
Create Overpass			+
Create Underpass			+
Disperse Markers			+
Set Representation Control Point at Intersect			+
Set Representation Control Point by Angle			+

Address Matching

	Basic	Standard	Advanced
Geocoding Tools			
Geocoding Toolbar for Locator Management and Use	+	+	+
Single Line Input for ArcGIS 10.x Locators	+	+	+
Geocode Single or Batch Addresses	+	+	+
Find Address within Current Map Extent	+	+	+
Real-Time Batch Geocoding Match Rate Feedback	+	+	+
Use Tools for Processing Result Sets, Including Custom Queries	+	+	+
Use ArcGIS for Server for Server-Based Geocoding	+	+	+
Use Multiple Geocoding Locators per Data Source	+	+	+
Geocode Using Alternate Street Names, Intersection, or Place-Name Aliases	+	+	+
Aggregate Multiple Geocoding Locators into a Single Geocoding Locator (Composite Locator)	+	+	+
Distribute Geocoding Locators without the Reference Data	+	+	+
Edit Runtime Properties with Address Locator Properties Dialog	+	+	+
Address Inspector Finds Address by Map Click	+	+	+
Drag Locators into ArcMap™ from the Catalog Window	+	+	+
Built-in Datalens Military Grid Reference System (MGRS) Locator	+	+	+
Create Dynamic Features from Geocoded Locations		+	+
ArcGIS Online Locator			
World Geocode Service (Geocode Single Address)	+	+	+
Geoprocessing			
Consolidate Locator	+	+	+
Create Address Locator	+	+	+
Create Composite Address Locator	+	+	+
Geocode Addresses	+	+	+
Package Locator	+	+	+
Reverse Geocode Point Features	+	+	+
Rebuild Address Locator	+	+	+
Rematch Addresses	+	+	+
Standardize Addresses	+	+	+

Data Support and Interoperability

Raster Data Support

	Basic	Standard	Advanced
Direct Read of Raster Data			
AIRSAR Polarimetric	+	+	+
Applanix DSS	+	+	+
ARC Digitized Raster Graphics (ADRG)	+	+	+
Band Interleaved by Line (Esri BIL), Band Interleaved by Pixel (Esri BIP), or Band Sequential (Esri BSQ)	+	+	+
Bathymetric Attributed Grid (BAG)	+	+	+
Big TIFF		+	+
Binary Terrain (BT)	+	+	+
Bitmap, Device Independent Bitmap (DIB) Format, or Microsoft Windows Bitmap	+	+	+
BSB Nautical Charts	+	+	+
Committee on Earth Observing Sensors (CEOS) SAR	+	+	+
Compressed ARC Digitized Raster Graphics (CADRG)	+	+	+
Controlled Image Base (CIB)	+	+	+
Digital Geographic Information Exchange Standard (DIGEST), ARC Standard Raster Product (ASRP), or Universal Transverse Mercator (UTM)/Universal Polar Stereographic (UPS) Standard Raster Product (USRP)	+	+	+
Digital Image Map (DIMAP)	+	+	+
Digital Terrain Elevation Data (DTED) Levels 0, 1, and 2	+	+	+
Earth Resources Laboratory Applications Software (ELAS)	+	+	+
Enhanced Compression Raster Graphic (ECRG)	+	+	+
Enhanced Compression Wavelet (ECW)	+	+	+
Envisat Image Product (ESAT)	+	+	+
ENVI Header Format	+	+	+
EOSAT FAST (FST)	+	+	+
ER Mapper's ECW	+	+	+
ERDAS 7.5 GIS, 7.5 LAN, and RAW	+	+	+
Extensible N-Dimensional Data Format (NDF)	+	+	+
Floating Point Raster (FLT)	+	+	+
FORMOSAT-2	+	+	+
Geospatial Data Abstraction Library (GDAL) Virtual Format (VRT)	+	+	+
GeoEye Satellite	+	+	+
Grid Exchange File (GXF)	+	+	+
Gridded Binary Format (GRIB)	+	+	+
Golden Software Formats (GSAG, GSBG, GS7GB)	+	+	+
Golden Software Grid (.grd)	+	+	+
Hierarchical Data Format (HDF)–4, Including Subdatasets	+	+	+
Heightfield Raster (HF2)	+	+	+
HGT	+	+	+
High-Resolution Elevation (HRE)	+	+	+
IDRISI Raster Format (RST)	+	+	+
IKONOS Satellite	+	+	+
ILWIS Raster Map	+	+	+
Image Display and Analysis (IDA)	+	+	+
Image Service (from ArcGIS for Server)	+	+	+
Image Service Definition (.lsDef)	+	+	+
Image Service Reference (.lsRef)	+	+	+
Intergraph Raster Files: CIT™ Binary Data, COT™ Grayscale Data	+	+	+
Integrated Software for Imagers and Spectrometers (ISIS)	+	+	+
Japanese Aerospace Exploration Agency (1.1 GUD, 1.5 GUD)	+	+	+
KOMPSAT-2	+	+	+
Landsat Satellites (1–7)	+	+	+
LAS (Lidar Data Files)	+	+	+
LAS Dataset	+	+	+
Magellan MapSend (BLX/XLB)	+	+	+
Match-AT	+	+	+
MAP	+	+	+
Map Service (from ArcGIS for Server or ArcGIS.com)	+	+	+

Raster Data Support (continued)

	Basic	Standard	Advanced
Multi-Resolution Seamless Image Database (MrSID) Generations 2, 3, and 4	+	+	+
MrSID (MG4) Lidar	+	+	+
National Imagery Transmission Format (NITF), Including Subdatasets	+	+	+
National Land Archive Production System (NLAPS)	+	+	+
New Labeled USGS DOQ (DOQZ)	+	+	+
NOAA .gtx Vertical Datum Shift	+	+	+
NOAA Polar Orbiter Level 1b Dataset (AVHRR)	+	+	+
Oracle Spatial GeoRaster[7]	+	+	+
OrbView-3 Satellite	+	+	+
PCI .aux Labeled Raw Format (PAux)	+	+	+
PCI Geomatics PCIDSK (PIX)[8]	+	+	+
Planetary Data System (PDS)—National Aeronautics and Space Administration (NASA) (IMG/LBL)	+	+	+
Portable Network Graphics (PNG)	+	+	+
QuickBird Satellite	+	+	+
PCRaster (MAP)[8]	+	+	+
RADARSAT-2	+	+	+
RapidEye Satellite	+	+	+
Raster Catalog	+	+	+
Raster Process Definition (.RPDef)	+	+	+
Raster Product Format (RPF)	+	+	+
SACA GS Binary Grid	+	+	+
Sandia Synthetic Aperture (GFF)	+	+	+
Shuttle Radar Topography Mission (SRTM)	+	+	+
Spatial Data Transfer Standard (SDTS)	+	+	+
SPOT Satellites	+	+	+
Tables	+	+	+
Tagged Image File Format (TIFF)	+	+	+
Terragen Terrain (TER/TERRAIN)	+	+	+
Terrain	+	+	+
TerraSAR-X	+	+	+
United States Geological Survey (USGS) ASCII Digital Elevation Model[8]	+	+	+
United States Geological Survey (USGS) Digital Ortho Quadrangles (DOQ)	+	+	+
Web Coverage Service (WCS, OGC standard)	+	+	+
Web Map Service (WMS, OGC standard)	+	+	+
Worldview Satellites	+	+	+
XPsMap (XPM)[8]	+	+	+
Direct Read and Write of Raster Data			
ERDAS IMAGINE	+	+	+
Esri Grid, Grid Stack, and Grid Stack File	+	+	+
Geodatabase Raster	+[9]	+	+
Graphic Interchange Format (GIF)	+	+	+
Joint File Interchange Format (JFIF)	+	+	+
Joint Photographic Experts Group (JPEG)	+	+	+
JPEG 2000 (JP2)	+	+	+
Portable Network Graphics (PNG)	+	+	+
Tagged Image File Format (GeoTIFF tags are supported.)	+	+	+
Oracle Spatial GeoRaster[7]		+	+
Geodatabase Raster Management			
Create and Edit Raster Attribute Tables for All Supported Single Band Raster Formats	+[9]	+	+
Create and Manage Rasters in Personal and File Geodatabases	+	+	+
Compress Geodatabase Rasters with LZ77, JPEG, or JPEG 2000 Compression Algorithms	+[9]	+	+
Create and Manage Raster Data in a Multiuser Geodatabase		+	+
Create Raster Mosaics		+	+

[7] Oracle Spatial GeoRaster requires the data to be registered with the geodatabase or created using ArcGIS for Desktop.

[8] These formats can be written to through programming with the ArcObjects™ API.

[9] Basic can only create geodatabase rasters or raster attribute tables in personal or file geodatabases. Standard and Advanced can create and manage geodatabase rasters in personal, file, and multiuser geodatabases.

Document and Data Support

	Basic	Standard	Advanced
Map and Symbology Files			
Read Published Map Files (from ArcGIS Publisher)	+	+	+
Read and Write Old Map Documents (.mxd)	+	+	+
Save Layer Files (.lyr) and Map Documents (.mxd) in ArcGIS 8.3, 9.0, 9.1, 9.2, 9.3, or 10 Format	+	+	+
Import ArcView® 3.x ArcView Legend (AVL) Files	+	+	+
Direct Read of Vector and Raster Data			
Personal Geodatabase for Microsoft® Access™	+	+	+
File Geodatabase	+	+	+
Personal, Workgroup, and Enterprise Geodatabases	+	+	+
Shapefiles	+	+	+
SQLite Database using ST_Geometry or Spatialite Geometry Types	+	+	+
ArcInfo® Coverages	+	+	+
PC ARC/INFO Coverages	+	+	+
Smart Data Compression (SDC) Data	+	+	+
Vector Product Format (VPF) Data	+	+	+
ArcGIS for Server services	+	+	+
ArcIMS® Services	+	+	+
ArcGIS for Server Feature Services	+	+	+
Open Geospatial Consortium, Inc. (OGC), Web Coverage Service (WCS)	+	+	+
Open Geospatial Consortium, Inc., Web Map Service (WMS)	+	+	+
OGC GML Simple Features Access[10]	+	+	+
OGC GML Simple Features Import/Export[10]	+	+	+
OGC GML Web Feature Service Access for Simple Features-Based Services[10]	+	+	+
Network Common Data Form (NetCDF)	+	+	+
Direct Editing of Vector Data			
Personal Geodatabase	+	+	+
File Geodatabase	+	+	+
Shapefiles	+	+	+
ArcSDE for SQL Express and Enterprise Geodatabases		+	+
ArcGIS for Server Feature Services		+	+
Direct Read of Other Data			
Geodatabase Terrains	+	+	+
Microsoft Excel Worksheets	+	+	+
Esri TIN	+	+	+
dBASE (DBF)	+	+	+
Text (TXT, CSV)	+	+	+
Esri INFO Files	+	+	+
Query Layers Defined in a DBMS with SQL	+	+	+
Database Connections	+	+	+
Microsoft Access	+	+	+
Coordinate Systems			
More than 800 Predefined Geographic Coordinate Systems	+	+	+
More than 4,800 Predefined Projected Coordinate Systems	+	+	+
More than 150 Predefined Vertical Coordinate Systems	+	+	+
Ability to Create and Use Custom Coordinate Systems	+	+	+

[10] These features require the installation of the ArcGIS Data Interoperability extension, but a license for this extension is not required.

CAD Support

	Basic	Standard	Advanced
CAD File Support			
Autodesk Drawing Exchange Format (DXF)	+	+	+
AutoCAD Drawing File (DWG)	+	+	+
MicroStation Design Files (DGN, etc.)	+	+	+
Mapping Specification for CAD—Import from CAD	+	+	+
Mapping Specification for CAD—Export to CAD	+	+	+
Direct Read of CAD Data			
Display CAD Features and Annotation Based on CAD File's Display Properties	+	+	+
Display Block Attributes and Tags as CAD Annotation Features	+	+	+
Display Entire CAD Drawing or Individual CAD Features by Geometric Type and Definition Query	+	+	+
Override CAD Symbology with Standard ArcGIS Display Tools	+	+	+
Control CAD Layer Visibility	+	+	+
Access CAD Entity Properties and Attributes through a CAD Feature Attribute Table	+	+	+
Directly Use CAD Data for Display, Query, Analysis, or Geoprocessing	+	+	+
Editing with CAD Data			
Copy and Paste CAD Features Directly into Other GIS Feature Classes	+	+	+
Snap to CAD Data While Editing	+	+	+
CAD Features Save Directly to GIS Feature Classes	+	+	+
Coordinate Systems			
Select and Save Coordinate System Definitions with CAD Data	+	+	+
Graphically Align CAD Data with Other GIS Data and Store the Transformation Definition (Georeferencing)	+

Understanding our world.

Esri inspires and enables people to positively impact their future through a deeper, geographic understanding of the changing world around them.

Governments, industry leaders, academics, and nongovernmental organizations trust us to connect them with the analytic knowledge they need to make the critical decisions that shape the planet. For more than 40 years, Esri has cultivated collaborative relationships with partners who share our commitment to solving earth's most pressing challenges with geographic expertise and rational resolve. Today, we believe that geography is at the heart of a more resilient and sustainable future. Creating responsible products and solutions drives our passion for improving quality of life everywhere.

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Printed in USA

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