


# ArcGIS®

## ArcGIS Desktop

Functionality Matrix

10

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# ArcGIS® Desktop 10 Functionality Matrix

## Mapping

### Map Interaction

| | ArcReader™ | ArcView® | ArcEditor™ | ArcInfo® |
|---|---|---|---|---|
| **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 | | • | • | • |
| Switch Any Tool to a Pan/Zoom 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 by Address, including 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)** | | | | |
| North American and European Point-to-Point Street Routing | | • | • | • |
| 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

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **General Mapping** | | | | |
| Visualize the Map Page or a Specific Set of Data | • | • | • | • |
| Perform On-the-Fly Projection of All Data | • | • | • | • |
| 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 | | • | • | • |
| 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 | | • | • | • |
| Build Detailed Reports Using Esri® Report Wizard | | • | • | • |
| Sort by Multiple Attributes | | • | • | • |
| Connect to and Use Remote Database Tables | | • | • | • |
| Display Tabular X,Y Point Data from a File or Table on a Map | | • | • | • |
| View Attachments for a Feature Class | | • | • | • |
| **Vector Data Display** | | | | |
| Control Selection Color for Each Dataset | | • | • | • |
| Create MapTips | | • | • | • |
| Fix Symbology to a Specific Map Scale | | • | • | • |
| Interactively Exclude Specific Features from the Display | | • | • | • |
| 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 | | • | • | • |
| 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 | | • | • | • |
| Support User-Imported Graphic Fill Patterns | | • | • | • |
| **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 | | • | • | • |
| 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 | | • | • | • |
| Orthorectify On the Fly | | • | • | • |
| On-the-Fly Panchromatic 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 | | • | • | • |
| Minimum-Maximum | | • | • | • |
| Custom | | • | • | • |
| None | | • | • | • |
| **Raster Display Statistics** | | | | |
| Based on the Entire Raster Dataset | | • | • | • |
| Based on the Display Extent | | • | • | • |
| Based on a Custom Extent | | • | • | • |

### Map Display (continued)

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **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 | | • | • | • |
| **Time Animation and Temporal Data** | | | | |
| Create Time Series, Layer Transition, or Map Navigation Animation | | • | • | • |
| 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 | | • | • | • |

### Page Layout and Printing

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Map Elements** | | | | |
| Title | | • | • | • |
| Text | | • | • | • |
| Neatlines | | • | • | • |
| Legend | | • | • | • |
| North Arrows | | • | • | • |
| Scale Bar | | • | • | • |
| 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 HP PCL (RGB, CMYK, and Monochrome) | | • | • | • |
| ArcPress Epson Universal | | • | • | • |
| ArcPress HP Universal | | • | • | • |
| Process Print Jobs on the Local Machine for Faster Printing | | • | • | • |

### Publishing and Sharing Maps

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Creating High-Performance Dynamic Maps** | | | | |
| Analyze Maps for Errors, Unsupported Content, Performance Tips | | • | • | • |
| Preview Your Maps and Estimated Rendering Time | | • | • | • |
| Create an Optimized Map Service Document (MSD) | | • | • | • |
| Publish a Map Service Document to ArcGIS® Server* | | • | • | • |
| **Sharing Maps, Layers, and Data** | | | | |
| Consolidate Layers or Maps 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 | | • | • | • |

*Requires ArcGIS Server

### Map Text

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Labels** | | | | |
| 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 | | • | • | • |
| **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[1]

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Advanced Label Placement Rule Set** | | | | |
| Display Advanced Labels with Read-Only Properties | • | • | • | • |
| Street Placement | | | | • |
| Customizable Dynamic Stacking | | | | • |
| Font Reduction | | | | • |
| Customizable Abbreviation | | | | • |
| Polygon Boundary Placement | | | | • |
| Repeated Labeling | | | | • |
| Character Spreading | | | | • |
| Word Spreading | | | | • |
| 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 | | | | • |

[1] The advanced labeling functionality is available through the Maplex™ for ArcGIS extension, which can be purchased with ArcView or ArcEditor but is automatically included with an ArcInfo license.

### Advanced Cartography

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **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 Curve | | | • | • |
| Dashes | | | • | • |
| Enclosing Polygon | | | • | • |
| Jog | | | • | • |
| Move | | | • | • |
| Offset Curve | | | • | • |
| Reverse Curve | | | • | • |
| Rotate | | | • | • |
| Scale | | | • | • |
| Simplify | | | • | • |
| Smooth Curve | | | • | • |
| Tapered Polygon | | | • | • |
| Wave | | | • | • |
| **Polygon Geometric Effects** | | | | |
| Add Control Points | | | • | • |
| Buffer | | | • | • |
| Cut Curve | | | • | • |
| Dashes | | | • | • |
| Donut | | | • | • |
| Enclosing Polygon | | | • | • |
| Move | | | • | • |
| Offset Curve | | | • | • |
| Rotate | | | • | • |
| Scale | | | • | • |
| Simplify | | | • | • |
| Smooth Curve | | | • | • |
| 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 Geodesic 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

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Geocoding Tools** | | | | |
| Geocoding Toolbar for Locator Management and Use | | • | • | • |
| Single Line Input for ArcGIS 10 Locators | | • | • | • |
| Geocode Single or Batch Addresses | | • | • | • |
| Real-Time Batch Geocoding Match Rate Feedback | | • | • | • |
| Use Tools for Processing Result Sets, Including Custom Queries | | • | • | • |
| Use ArcGIS 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 | | • | • | • |
| Address Inspector Finds Address by Map Click | | • | • | • |
| Drag Locators into ArcMap™ from the Catalog Window | | • | • | • |
| Built-in Dataless Military Grid Reference System (MGRS) Locator | | • | • | • |
| Create Dynamic Features from Geocoded Locations | | | • | • |
| **ArcGIS Online Locators** | | | | |
| North American Locator Service | | • | • | • |
| European Locator Service | | • | • | • |
| World Places Gazetteer Locator Service | | • | • | • |
| **Geoprocessing** | | | | |
| Create Address Locator | | • | • | • |
| Create Composite Address Locator | | • | • | • |
| Geocode Addresses | | • | • | • |
| Reverse Geocode Point Features | | • | • | • |
| Rebuild Address Locator | | • | • | • |
| Rematch Addresses | | • | • | • |
| Standardize Addresses | | • | • | • |

## Data Support and Interoperability

### Raster Data Support

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Direct Read of Raster Data** | | | | |
| 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) | | • | • | • |
| Binary Terrain (BT) | | • | • | • |
| Bitmap, Device Independent Bitmap (DIB) Format, or Microsoft Windows Bitmap | | • | • | • |
| BSB Nautical Charts | | • | • | • |
| 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 | | • | • | • |
| EOSAT FAST (FST) | | • | • | • |
| ENVI | | • | • | • |
| ER Mapper's ECW | | • | • | • |
| ERDAS 7.5 GIS, 7.5 LAN, and RAW | | • | • | • |
| Floating Point Raster (FLT) | | • | • | • |
| Geospatial Data Abstraction Library (GDAL) Virtual Format (VRT) | | • | • | • |
| Gridded Binary Format (GRIB) | | • | • | • |
| Golden Software Format (GSAG, GSBG, GS7BG) | | • | • | • |
| Hierarchical Data Format (HDF) –4, Including Subdatasets | | • | • | • |
| IDRISI Raster Format (RST) | | • | • | • |
| 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) | | • | • | • |
| Magellan MapSend (BLX/XLB) | | • | • | • |
| Multiresolution Seamless Image Database (MrSID Generations 2 and 3) | | • | • | • |
| National Imagery Transmission Format (NITF), Including Subdatasets | | • | • | • |
| National Land Archive Production System (NLAPS) | | • | • | • |
| Oracle Spatial GeoRaster | | • | • | • |
| PCI Geomatics PCIDSK (PIX)[2] | | • | • | • |
| Planetary Data System (PDS)—National Aeronautics and Space Administration (NASA) (IMG/LBL) | | • | • | • |
| Portable Network Graphics | | • | • | • |
| PCRaster (MAP)[2] | | • | • | • |
| RADARSAT-2 | | • | • | • |
| Raster Product Format | | • | • | • |
| Sandia Synthetic Aperture (GFF) | | • | • | • |
| Shuttle Radar Topography Mission (SRTM) | | • | • | • |
| Spatial Data Transfer Standard (SDTS) | | • | • | • |
| Terragen Terrain (TER/TERRAIN) | | • | • | • |
| TerraSAR-X | | • | • | • |
| United States Geological Survey (USGS) ASCII Digital Elevation Model[2] | | • | • | • |
| XPixMap (XPM)[2] | | • | • | • |
| **Direct Read and Write of Raster Data** | | | | |
| ERDAS IMAGINE | | • | • | • |
| Esri Grid and Grid Stack | | • | • | • |
| Geodatabase Raster | | •[3] | • | • |
| Graphic Interchange Format | | • | • | • |
| Joint File Interchange Format (JFIF) | | • | • | • |
| Joint Photographic Experts Group | | • | • | • |
| JPEG 2000 (JP2) | | • | • | • |
| Portable Network Graphics | | • | • | • |
| Tagged Image File Format (GeoTIFF tags are supported.) | | • | • | • |
| Oracle Spatial GeoRaster | | | • | • |
| **Geodatabase Raster Management** | | | | |
| Create and Edit Raster Attribute Tables for All Supported Single Band Raster Formats | | •[3] | • | • |
| Create and Manage Rasters in Personal and File Geodatabases | | • | • | • |
| Compress Geodatabase Rasters with LZ77, JPEG, or JPEG 2000 Compression Algorithms | | •[3] | • | • |
| Create and Manage Raster Data in a Multiuser Geodatabase | | | • | • |
| Create Raster Mosaics | | | • | • |

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

[3] ArcView can only create geodatabase rasters or raster attribute tables in personal or file geodatabases. ArcEditor and ArcInfo can create and manage geodatabase rasters in personal, file, and multiuser geodatabases.

### Document and Data Support

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Map and Symbology Files** | | | | |
| Read Published Map Files (from ArcGIS Publisher) | • | • | • | • |
| Create and Edit Map Documents (.mxd) | | • | • | • |
| Save Layer Files (.lyr) and Map Documents (.mxd) in ArcGIS 8.3, 9.0, 9.1, 9.2, or 9.3 Format | | • | • | • |
| Use Map Documents (.mxd) to Standardize Maps | | • | • | • |
| Import ArcView 3.x AVL Files | | • | • | • |
| **Direct Read of Vector and Raster Data** | | | | |
| Personal Geodatabase for Microsoft® Access™ | | • | • | • |
| File Geodatabase | | • | • | • |
| Personal, Workgroup, and Enterprise Geodatabases | | • | • | • |
| Shapefiles | | • | • | • |
| ArcInfo Coverages | | • | • | • |
| PC ARC/INFO® Coverages | | • | • | • |
| Smart Data Compression (SDC) Data | | • | • | • |
| Vector Product Format (VPF) Data | | • | • | • |
| ArcGIS Server Services | | • | • | • |
| ArcIMS® Services | | • | • | • |
| ArcGIS 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[4] | | • | • | • |
| OGC GML Simple Features Import/Export[4] | | • | • | • |
| OGC GML Web Feature Service Access for Simple Features-Based Services[4] | | • | • | • |
| Network Common Data Form (netCDF) | | • | • | • |
| **Direct Editing of Vector Data** | | | | |
| Personal Geodatabase for Access Simple Features | | • | • | • |
| File Geodatabase | | • | • | • |
| Shapefiles | | • | • | • |
| Personal, Workgroup, and Enterprise Geodatabases | | | • | • |
| ArcGIS Server Feature Services | | | • | • |
| **Direct Read of Other Data** | | | | |
| Geodatabase Terrains | | • | • | • |
| Microsoft Excel Worksheets | | • | • | • |
| Esri TIN | | • | • | • |
| dBASE (DBF) | | • | • | • |
| Text (TXT) | | • | • | • |
| Esri INFO Files | | • | • | • |
| OLE DB Connections | | • | • | • |
| Query Layers Defined in a DBMS with SQL | | • | • | • |
| ODBC Connections | | • | • | • |
| Microsoft Access | | • | • | • |
| **Coordinate Systems** | | | | |
| More than 640 Predefined Geographic Coordinate Systems | • | • | • | • |
| More than 3,800 Predefined Projected Coordinate Systems | • | • | • | • |
| More than 125 Predefined Vertical Coordinate Systems | • | • | • | • |
| Ability to Create and Use Custom Coordinate Systems | • | • | • | • |

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

### CAD Support

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **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) | | • | • | • |
| **Geoprocessing—See Geoprocessing Conversion** | | | | |

## Application Framework

### Application Customization

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Application Look and Feel** | | | | |
| Dockable/Floating Toolbars | | • | • | • |
| Dockable and Auto Hiding Windows | | • | • | • |
| Unicode Support for Multilanguage Attributes | | • | • | • |
| Installations for Chinese, French, German, Spanish Languages | | • | • | • |
| Complies with Microsoft Windows Display Settings | | • | • | • |
| Layer (.lyr) Files Registered in Windows to ArcGIS Applications | | • | • | • |
| **Customization** | | | | |
| Drag and Drop to Rearrange Tools/Toolbars | | • | • | • |
| Add Geoprocessing Tools to Any Menu | | • | • | • |
| Create New Toolbars or Menus without Programming | | • | • | • |
| Extend the Applications with any COM-Compliant Development Environment | | • | • | • |
| Build New ArcGIS Components with .NET Using Microsoft Visual Studio Add-Ins, Templates, and Code Samples | | • | • | • |

## Data Automation

### Data Editing

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **General Editing** | | | | |
| Simultaneously Edit Multiple Layers | | • | • | • |
| Use Feature Templates to Predefine Editing Tasks per Layer | | • | • | • |
| Perform Unlimited Undo/Redo Operations | | • | • | • |
| Integrate with ArcPad® for Field Editing | | • | • | • |
| Provide Digitizer Support for Devices with Wintab Compliant Drivers | | • | • | • |
| Make Measurements Using Any Units, Including Custom Units | | • | • | • |
| Optionally Scale Features When Individual Vertices Are Moved | | • | • | • |
| Automatically Correct Ground Measures Appropriately in the GIS | | • | • | • |
| Multiple Snap Environments Available | | • | • | • |
| Dockable Snapping Toolbar Makes It Quick and Easy to Control Snapping While Editing | | • | • | • |
| Snap Tips Give Feedback on Snap Agent Used | | • | • | • |
| Simple Editing of Multipatch (3D) Features | | • | • | • |
| **Snapping Types** | | | | |
| Edge | | • | • | • |
| End | | • | • | • |
| Intersection | | • | • | • |
| Midpoint | | • | • | • |
| Point | | • | • | • |
| Tangent | | • | • | • |
| Vertex | | • | • | • |
| **Snapping to Topology Elements** | | | | |
| Topology Nodes | | • | • | • |
| **Snapping Tolerance** | | | | |
| By Pixels | | • | • | • |
| By Map Units | | • | • | • |
| Interactively | | • | • | • |
| **Geometry Construction Options** | | | | |
| Constrain the Next Segment by Direction | | • | • | • |
| Constrain the Next Segment with a Deflection Angle from Last Segment | | • | • | • |
| Constrain the Next Segment by Length | | • | • | • |
| Specify an Exact X,Y Location | | • | • | • |
| Specify an X,Y Difference from the Last Vertex | | • | • | • |
| Constrain the Next Segment to Be Parallel to the Last Segment | | • | • | • |
| Constrain the Next Segment to Be Perpendicular to the Last Segment | | • | • | • |
| Constrain the Next Segment Based on an Angle from an Existing Feature Segment in the Map | | • | • | • |
| Create Geometry from Existing Features in the Map | | • | • | • |
| Create a Curve Tangent to the Last Segment | | • | • | • |
| Finish a Polygon by Generating Perpendicular Segments from the First and Last Segment | | • | • | • |
| Flip the Orientation of the Geometry | | • | • | • |
| Trim Geometry to a Specific Length | | • | • | • |
| **Geometry Creation Tools** | | | | |
| Point and Click On-Screen Digitizing | | • | • | • |
| Use Stream Digitizing | | • | • | • |
| Create Freehand Bézier Splines | | • | • | • |
| Add a Coordinate Based on an Angle from One Location and a Distance from Another | | • | • | • |
| Add a Coordinate Based on the Implied Intersection of Two Segments | | • | • | • |
| Add a Coordinate in Decimal Degree (DD, DMS, DDM) Format | | • | • | • |
| Construct a Bézier Curve | | • | • | • |
| Construct a True Circular Curve | | • | • | • |
| Construct a Tangent Curve | | • | • | • |
| Construct Rectangles and Circles | | • | • | • |
| Add a Coordinate Based on a Distance from Two Known Locations | | • | • | • |
| Add a Coordinate at the Midpoint between Two Known Locations | | • | • | • |
| Add Coordinates along Existing Coordinates | | • | • | • |
| Create a Curved Line at the Intersection of Two Existing Lines (Fillet) | | • | • | • |
| **Feature Manipulation Tasks** | | | | |
| Create Features Using New Geometry | | • | • | • |
| Create New Polygons Using the Geometry of Existing Features (Autocomplete Polygons) | | • | • | • |
| Reshape Existing Features | | • | • | • |
| Cut Polygon Features | | • | • | • |
| Create Mirror Copies of Existing Features | | • | • | • |
| Extend or Trim Existing Features | | • | • | • |
| Split Existing Lines at Their Explicit or Implicit Intersection | | • | • | • |
| Add, Delete, Interactively Move, or Modify the Coordinate Values for Vertex Locations of Existing Features | | • | • | • |
| **Feature Editing Tools** | | | | |
| Move, Rotate, Delete, Copy, and Paste | | • | • | • |
| Split a Line at a Distance or Percentage | | • | • | • |
| Divide a Line Based on a Distance, a Number of Segments, or a Measure Value (M-Coordinate) | | • | • | • |
| Buffer Features | | • | • | • |
| Copy Lines Parallel to Their Existing Location | | • | • | • |
| Merge Existing Features | | • | • | • |
| Create New Features by Merging Features in the Same or Another Layer (Union) | | • | • | • |
| Create New Features from the Buffer of Existing Features | | • | • | • |
| Create New Polygons by Intersecting Existing Feature Classes | | • | • | • |
| Clip One or More Polygons with Another Polygon | | • | • | • |
| Extend and Trim Lines with Other Features in the Map | | • | • | • |
| **Attribute Editing** | | | | |
| Modify Each Selected Row Individually or as a Group (Attributes Dialog) | | • | • | • |
| Copy Attributes to One or More Rows Simultaneously | | • | • | • |
| Calculate Attribute Values Using Scripts (Field Calculator) | | • | • | • |
| Calculate Attribute Values from a Feature's Geometric Properties (Calculate Geometry) | | • | • | • |
| Validate Attribute Values Using Rules Defining Valid Values (Domains) | | • | • | • |
| Enter Attributes for New Feature as They Are Created | | • | • | • |
| Edit Attributes in the Attributes or Table Window | | • | • | • |
| **Multipart Features (Point, Line, and Polygon)** | | | | |
| Add and Delete Parts | | • | • | • |
| Zoom to Parts | | • | • | • |
| Add, Delete, and Edit Vertex Locations | | • | • | • |
| Create Separate Features from Each Part (Explode) | | • | • | • |
| **Map Navigation while Editing** | | | | |
| Zoom to Feature Vertices | | • | • | • |
| Zoom to Feature Parts | | • | • | • |
| Pan and Zoom to Unplaced Annotation or the Feature Associated with the Unplaced Annotation | | • | • | • |
| Continuous Pan/Zoom | | • | • | • |
| **Vector Data Transformations** | | | | |
| Rubber Sheeting Transformation | | • | • | • |
| Affine Transformation | | • | • | • |
| Similarity Transformation | | • | • | • |
| Projective Transformation | | • | • | • |
| Edgematching Transformation | | • | • | • |
| Transfer Accurate Attributes from Features with Inaccurate Geometry to Features with Accurate Geometry (Conflation) | | • | • | • |
| Copy Feature Geometry from One Location/Layer to a New Location/Layer | | • | • | • |
| **Generalization** | | | | |
| Smooth Line Features | | • | • | • |
| Simplify the Shape of Line Features (Generalize) | | • | • | • |
| **Coordinate Geometry** | | | | |
| Automatically Modify Field Measures to the GIS (Ground to Grid) with Interactive Tools or by Specifying an Offset and Scale | | | • | • |
| Create Fields to Store Coordinate Geometry (COGO) Measurements | | | • | • |
| Add New Features by Specifying Courses along a Traverse | | | • | • |
| Create Two-Point Line Features with a Variety of Curve and Straight-Line Construction Methods | | | • | • |
| Create New Lines from a Strip Description (Offset Line) | | | • | • |
| Construct Symmetrical or Asymmetrical Cul-de-Sacs from a Street Centerline | | | • | • |
| Split a Line at Specific Intervals (Proportion) | | | • | • |
| Merge Multiple Straight Lines into a Single Two-Point Line with Updated COGO Attributes | | | • | • |
| Populate COGO Measurements from the Geometry of a Feature (Inverse) | | | • | • |
| Examine COGO Characteristics of Existing Features (COGO Report) | | | • | • |
| Calculate All Missing Measurements of a Curve from Any Two Measurements | | | • | • |
| Compare Measured Polygon Area with Legal Polygon Area (COGO Area) | | | • | • |
| Split Existing Lines into COGO Lines | | | • | • |
| **Parcel Editing** | | | | |
| Create Parcel Fabric Features | | | • | • |
| Perform Least-Squares Adjustment of Parcel Fabric Features | | | • | • |
| Adjust Associated Layers | | | • | • |

### Raster Editing and Vectorization[5]

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Vectorize All Raster Formats Supported in ArcGIS** | | | | |
| 1 Bit Raster Data | | | • | • |
| 8 Bit Raster Data (With Bilevel Classification Applied) | | | • | • |
| **ArcGIS Integration** | | | | |
| Vectorization into any Editable Vector Dataset | | | • | • |
| Seamless Integration with Vector Data Editing Environment | | | • | • |
| **Raster Snapping Geometry** | | | | |
| Centerline | | | • | • |
| Corner | | | • | • |
| Intersection | | | • | • |
| Ends | | | • | • |
| Solid | | | • | • |
| **Raster Snapping Environment** | | | | |
| Available to All Editor Sketch Tools | | | • | • |
| Snap to Raster Linear Feature of Specified Width or Less | | | • | • |
| Snap to Solids within Specified Diameter | | | • | • |
| Ignore Holes in Data while Snapping | | | • | • |
| **Vectorization Tracing** | | | | |
| Interactively Trace Raster Lines | | | • | • |
| Ignore Holes in Raster Linear Features | | | • | • |
| **Automatic Vectorization** | | | | |
| Vectorize Entire Raster | | | • | • |
| Vectorize Specific Raster Area | | | • | • |
| Simultaneously Capture Line and Polygon Vectors | | | • | • |
| **Vectorization Parameters** | | | | |
| Vectorize Raster Lines Less than or Equal to Specified Width | | | • | • |
| Reduce Vectors (Compression) on Creation | | | • | • |
| Smooth Vectors on Creation | | | • | • |
| Jump Gaps (Dashes) within Raster | | | • | • |
| Use Variable Methods for Resolving Intersections | | | • | • |
| Save and Load Parameters | | | • | • |
| **Vectorization Preview** | | | | |
| Use Dynamic Vectorization Preview | | | • | • |
| Change Preview Symbology | | | • | • |
| **Raster Cell Selection** | | | | |
| Select Foreground or Background Cells | | | • | • |
| Select Connected Cells Interactively | | | • | • |
| Select Connected Cells by Count | | | • | • |
| Select Connected Cells by Diagonal Area | | | • | • |
| **Raster Cleanup Environment** | | | | |
| Undo/Redo Raster Cleanup Operations | | | • | • |
| Erase or Fill Selected Cells | | | • | • |
| Save Selected Cells to New Raster | | | • | • |
| **Raster Cleanup Painting Tools** | | | | |
| Brush | | | • | • |
| Erase | | | • | • |
| Basic Shapes (Line, Square, Ellipse, and Polygon) | | | • | • |
| Erase Connected Cells | | | • | • |
| **Support Tools** | | | | |
| Discover Raster Line Width | | | • | • |
| Discover Raster Solid Diameter | | | • | • |

[5] The vectorization functionality is available through the ArcScan™ for ArcGIS extension, which can be purchased with ArcView but is automatically included with ArcEditor and ArcInfo licenses.

### Mobile

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **GPS Support** | | | | |
| Display Real-Time Location Points from a GPS Receiver | | • | • | • |
| Dynamically Center the Map on the Current GPS Point | | • | • | • |
| Store GPS Locations in a Log File | | • | • | • |
| Filter by GPS Input by Time, Distance, or Deflection | | • | • | • |
| **Tablet PC** | | | | |
| Export Ink Markups to ArcMap | | • | • | • |
| Support Windows XP Tablet PC Edition | | • | • | • |
| Edit Features or Graphics with a Stylus | | • | • | • |
| Use Ink Gestures to Perform Common Mapping Tasks | | • | • | • |
| Annotate the Map with Redlining and Highlighting Tools | | • | • | • |
| Find Handwritten Notes within the Map | | • | • | • |
| Convert Redlining Handwriting to Text | | • | • | • |
| **ArcGIS Mobile Support** | | | | |
| Create Mobile Map | | • | • | • |
| Synchronize Mobile Cache | | • | • | • |

### Multiuser Geodatabase Editing

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **General Editing** | | | | |
| Multiple Editors Can Simultaneously Edit the Same Feature Classes in a Multiuser Geodatabase | | | • | • |
| Isolate Editing Projects in Separate Versions (Create Version) Enabling a Variety of Workflows | | | • | • |
| Merge Versions (Reconcile and Post) | | | • | • |
| Manage Conflicts between Editors by Row or Column | | | • | • |
| Manage Conflicts between Editors Interactively or Automatically | | | • | • |
| Delete Versions | | | • | • |
| Simultaneously View and Edit Versioned GIS Data in ArcGIS and Non-ArcGIS Applications | | | • | • |
| **Administration Geoprocessing** | | | | |
| Modify Data Privileges for Data in a Multiuser Geodatabase | | | • | • |
| Migrate Storage | | | • | • |
| Register SDE® Data with the Geodatabase | | | • | • |
| Clean Up Versioning Tables (Compress) | | | • | • |
| Add and Remove Tables and Feature Class from the Versioning Environment (Register and Unregister as Versioned) | | | • | • |
| **Versioning Geoprocessing** | | | | |
| Alter Version | | | • | • |
| Change Version | | | • | • |
| Create Version | | | • | • |
| Delete Version | | | • | • |
| Post Version | | | • | • |
| Reconcile Version | | | • | • |
| Register as Versioned | | | • | • |
| Unregister as Versioned | | | • | • |
| **Short Transaction Editing** | | | | |
| Edit Nonversioned Simple Features | | | • | • |
| Create Features and Enter Attributes for That Feature within a Single Database Transaction | | | • | • |

### Multiuser Geodatabase Archiving

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Display and Query** | | | | |
| View the Geodatabase at a Specific Point in Time | | • | • | • |
| Query Archived Data Directly | | • | • | • |
| **Manage** | | | | |
| Enable and Disable Archiving for a Table or Feature Class | | | • | • |
| Create Saved Views of the Geodatabase at a Specific Point in Time | | | • | • |

### Distributed Geodatabases

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Manage Replicas** | | | | |
| Create Replicas of Vector and Raster Data Using a Filter | | | • | • |
| Create and Manage Checkout/Check-in, One-Way, or Two-Way Geodatabase Replicas | | | • | • |
| Synchronize Connected Replicas | | | • | • |
| Exchange Edits between Disconnected Replicas with an XML, ZIP, Z, or Geodatabase Delta File | | | • | • |
| Compare Schemas between Replicas | | | • | • |
| Exchange Schema Changes between Replicas | | | • | • |
| Generate a Feature Class Containing the Rectangular Extent of a Replica | | | • | • |
| **Disconnected Editing Geoprocessing** | | | | |
| Check In | | | • | • |
| Check Out | | | • | • |
| Check In from Delta | | | • | • |
| Export to Delta | | | • | • |
| **Distributed Geodatabases Geoprocessing** | | | | |
| Add Global IDs | | | • | • |
| Compare Replica Schema | | | • | • |
| Create Replica | | | • | • |
| Create Replica from Server | | | • | • |
| Create Replica Footprints | | | • | • |
| Export Acknowledgment Message | | | • | • |
| Export Data Change Message | | | • | • |
| Export Replica Schema | | | • | • |
| Import Message | | | • | • |
| Import Replica Schema | | | • | • |
| Reexport Unacknowledged Messages | | | • | • |
| Synchronize Changes | | | • | • |

### Spatial Referencing Image Data (Georeferencing)[6]

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Tools** | | | | |
| Shift, Flip, Rotate, or Fit Image to Display | | • | • | • |
| Interactively Specify From and To Control Points | | • | • | • |
| Save and Load Control Points with Error and Accuracy Information | | • | • | • |
| **Transformation Methods** | | | | |
| First-, Second-, and Third-Order Polynomial | | • | • | • |
| Adjust | | • | • | • |
| Spline | | • | • | • |
| **Save Spatial Reference Information** | | | | |
| Create a New Dataset (Rectify) | | • | • | • |
| Save Reference Information with the Image | | • | • | • |

[6] Spatial referencing of rasters stored in an ArcSDE® workspace requires the ArcEditor or ArcInfo license level.

## Data Management and Validation

### Data Management

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **General** | | | | |
| Manage GIS Data and All Associated Files from a Single Tree View Application (ArcCatalog™) | | • | • | • |
| Manage GIS Data and All Associated Files from the Catalog Window in ArcMap | | • | • | • |
| Manage Raster Datasets and Raster Catalogs in a Personal Geodatabase | | • | • | • |
| Create Single-User (Personal or File) Geodatabase Feature Classes | | • | • | • |
| Create Shapefiles | | • | • | • |
| Administer ArcGIS Server | | • | • | • |
| Connect to Multiuser Geodatabases Using Operating System or Database Authentication | | • | • | • |
| **Search for GIS Data By** | | | | |
| Name | | • | • | • |
| Type | | • | • | • |
| Path | | • | • | • |
| Keyword Tag | | • | • | • |
| **Manage Coverage Data** | | | | |
| Add/Modify Tic Locations | | | • | • |
| Set Coordinate System | | | • | • |
| Change the Data Extent | | | • | • |
| Create Coverage Relationship Classes | | | • | • |
| Create a New Coverage | | | • | • |
| Create a New INFO File | | | • | • |
| Modify Coverage Tolerances | | | • | • |
| **Geodatabase Administration** | | | | |
| Create and Load Vector and Raster Data into a Multiuser Geodatabase | | | • | • |
| Create Tables/Feature Classes That Store Custom Objects/Features | | | • | • |
| Update RDBMS Statistics for GIS Data | | | • | • |
| **Geodatabase XML File Import/Export** | | | | |
| Export and Import XML (Binary or Normalized) | | | • | • |
| ZIP (Compressed Text File with 4 GB File Size Limit) | | | • | • |
| Z (Compressed Text File with No File Size Limit) | | | • | • |

### Attribute Validation

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Subtypes Geoprocessing** | | | | |
| Add Subtype | | • | • | • |
| Remove Subtype | | • | • | • |
| Set Default Subtype | | • | • | • |
| Set Subtype Field | | • | • | • |
| **Domains Geoprocessing** | | | | |
| Add Coded Value to Domain | | • | • | • |
| Assign Domain to Field | | • | • | • |
| Create Domain | | • | • | • |
| Delete Coded Value from Domain | | • | • | • |
| Delete Domain | | • | • | • |
| Domain to Table | | • | • | • |
| Remove Domain from Field | | • | • | • |
| Set Value for Range Domain | | • | • | • |
| Table to Domain | | • | • | • |
| **Create and Edit Relationships for Features** | | | | |
| One-to-One | | | • | • |
| One-to-Many | | | • | • |
| Many-to-Many | | | • | • |
| Specify Cardinality Rules for Relationships | | | • | • |
| Store Attributes for Relationships | | | • | • |
| Enable Attachments for a Feature Class (Multimedia Support) | | | • | • |
| Create and Edit Attachments for a Feature Class | | | • | • |
| **Geodatabase Relationship Behavior** | | | | |
| Moving a Feature Moves the Related Feature | | | • | • |
| Deleting One Feature Deletes the Related Feature | | | • | • |
| **Relationship Class Geoprocessing** | | | | |
| Create Relationship Class | | | • | • |
| Table to Relationship Class | | | • | • |

### Topology

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Map Display** | | | | |
| Display a Summary of the Errors and Exceptions in the Topology | | • | • | • |
| Display the Feature Classes and Rules in the Topology | | • | • | • |
| Display Errors, Exceptions, and Dirty Areas in the Map | | • | • | • |
| **Editing** | | | | |
| Construct and Edit Topologies Created from Layers in the Map | | •[7] | • | • |
| Move Topological Edges and Nodes | | •[7] | • | • |
| Show or Select Adjacent or Connected Features | | •[7] | • | • |
| Reshape Shared Edges between Features | | •[7] | • | • |
| Modify the Coordinates of Shared Edges or Nodes | | •[7] | • | • |
| Split Shared Edges at a Specific Point, Distance, or Percentage along the Edge | | •[7] | • | • |
| Move Edges and Nodes to a Specific Location | | •[7] | • | • |
| Shift Edges and Nodes Based on an Offset from Their Current Location | | •[7] | • | • |
| Merge Connected Edges | | •[7] | • | • |
| Control Which Adjacent or Connected Features Move When a Shared Edge or Node Is Moved | | •[7] | • | • |
| Create/Split Polygons from Lines or Create Lines from Polygons | | | • | • |
| Split Lines Where They Intersect | | | • | • |
| Validate a Specific Area or the Entire Topology | | | • | • |
| Search for Errors of a Specific Type within One Area or the Entire Topology | | | • | • |
| Inspect Errors by Zooming, Panning, or Selecting the Features | | | • | • |
| **Geodatabase Topology Rule Violation Fix Operations** | | | | |
| Delete Features | | | • | • |
| Subtract Features | | | • | • |
| Create Features | | | • | • |
| Merge Features | | | • | • |
| Snap Features | | | • | • |
| Extend Lines | | | • | • |
| Trim Lines | | | • | • |
| Split Lines | | | • | • |
| Explode Features | | | • | • |
| Simplify Features | | | • | • |
| **Geodatabase Topology Management** | | | | |
| Create and Manage Geodatabase Topology | | | • | • |
| Specify a Hierarchy for Vertex Snapping During Topology Creation | | | • | • |
| **Geodatabase Topology Rules** | | | | |
| Polygons Contain Points | | | • | • |
| Polygon Contains One Point | | | • | • |
| Polygons Must Not Overlap | | | • | • |
| Polygons Must Not Have Gaps | | | • | • |
| Polygons Must Not Overlap with Polygons in Another Feature Class | | | • | • |
| Polygons Must Be Covered by One Polygon in Another Feature Class | | | • | • |
| Polygons Must be Covered by One or More Polygons in Another Feature Class | | | • | • |
| Polygons from Two Feature Classes Must Cover Each Other | | | • | • |
| Polygon Boundaries Must Be Covered by Lines of Another Feature Class | | | • | • |
| Polygon Boundaries Must Be Covered by the Boundaries of Polygons in Another Feature Class | | | • | • |
| Lines Must Not Overlap | | | • | • |
| Lines Must Be Inside | | | • | • |
| Lines Must Be Single Part | | | • | • |
| Lines Must Not Self-Overlap | | | • | • |
| Lines Must Not Overlap with Lines in Another Feature Class | | | • | • |
| Lines Must Not Have Dangles | | | • | • |
| Lines Must Not Have Pseudonodes | | | • | • |
| Lines Must Not Intersect | | | • | • |
| Lines Must Not Intersect With | | | • | • |
| Lines Must Not Self-Intersect | | | • | • |
| Line Endpoints Must Be Covered by Points of Another Feature Class | | | • | • |
| Lines Must Be Covered By Polygon Boundaries of Another Feature Class | | | • | • |
| Lines Must Not Intersect or Touch Interior With | | | • | • |
| Lines Must Be Covered by Lines of Another Feature Class | | | • | • |
| Points Must Be Coincident With | | | • | • |
| Points Must Be Covered by Lines of Another Feature Class | | | • | • |
| Points Must Be Disjoint | | | • | • |
| Points Must Be Inside Polygons | | | • | • |
| Points Must Be Covered by the Endpoints of Lines | | | • | • |
| Points Must Be Covered by the Boundary of Polygons of Another Feature Class | | | • | • |
| **Geoprocessing** | | | | |
| Add Feature Class to Topology | | | • | • |
| Add Rule to Topology | | | • | • |
| Create Topology | | | • | • |
| Remove Feature Class from Topology | | | • | • |
| Remove Rule from Topology | | | • | • |
| Set Cluster Tolerance | | | • | • |
| Validate Topology | | | • | • |

[7] Only available with Simple Features in map-based topologies.

### Networks

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Utility (Geometric) Network Analysis** | | | | |
| Trace Upstream | | • | • | • |
| Trace Downstream | | • | • | • |
| Find Common Ancestors | | • | • | • |
| Find Connected Network Features | | • | • | • |
| Find Loops in Network | | • | • | • |
| Find Disconnected Network Features | | • | • | • |
| Find Path | | • | • | • |
| Find Shortest Path Using Weighting | | • | • | • |
| Find Path Upstream | | • | • | • |
| Find Upstream Accumulation | | • | • | • |
| Isolate a Point on the Network | | • | • | • |
| **Data Management** | | | | |
| Create and Manage Utility Networks | | | • | • |
| Create Complex Edge Features That Maintain Connectivity without Splitting the Feature | | | • | • |
| **Geometric Network Connectivity Rules** | | | | |
| Edge—Junction | | | • | • |
| Edge—Edge via Junction | | | • | • |
| **Geometric Network Editing** | | | | |
| Connect and Disconnect Network Features | | | • | • |
| Enable and Disable Network Features | | | • | • |
| Set Flow Direction for a Network | | | • | • |
| Verify, Repair, and Rebuild Connectivity in a Network | | | • | • |
| Verify the Geometry of Network Features | | | • | • |
| Review and Repair Network Creation Errors | | | • | • |

### Linear Referencing (Routes)

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Display** | | | | |
| Find and Display Dynamic Segmentation Events (Point, Linear, and Continuous) on Routes | | • | • | • |
| **Editing** | | | | |
| Interactively Modify M-Coordinate Values | | • | • | • |
| Interactively Drop M-Coordinates | | • | • | • |
| Create Routes for Selected Lines Using the Length of the Features, a Field Value, or Specific From and To Measures | | • | • | • |
| Edit a Portion of a Line without Affecting the Measures on the Rest of the Line | | • | • | • |
| Adjust One Route Using Points along the Routes (Calibrate) | | • | • | • |
| Calculate Measures Using From and To Measures for a Line | | • | • | • |
| Set the Digitized Direction of the Line to Match Measure Values | | • | • | • |
| Calculate Measures Based on Length of Line | | • | • | • |
| Drop All the Measures for a Line | | • | • | • |
| Calculate Unknown Measures Using Interpolation Based on Existing Measures | | • | • | • |
| Add a Value to All Measures on a Line | | • | • | • |
| Multiply All Measures on a Line by a Factor | | • | • | • |
| Add a Vertex at a Specific Measure | | • | • | • |
| **Geoprocessing** | | | | |
| Make Route Event Layer | | • | • | • |
| Create Routes | | • | • | • |
| Calibrate Routes (Adjust All Route Measures Using Points along the Routes) | | • | • | • |
| Dissolve Route Events | | • | • | • |
| Locate Features along Routes | | • | • | • |
| Overlay Route Events | | • | • | • |
| Transform Route Events | | • | • | • |

### Metadata

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **General** | | | | |
| Automatically or Manually Generate Metadata for All Items | | • | • | • |
| Import/Export Metadata | | • | • | • |
| Export Metadata to ISO 19139 | | • | • | • |
| Create XML Files for Metadata Templates | | • | • | • |
| **Managing Metadata Using a Variety of Styles** | | | | |
| Item Description | | • | • | • |
| Infrastructure for Spatial Information in Europe (INSPIRE) Metadata Directive | | • | • | • |
| ISO 19139 Metadata Implementation Specification | | • | • | • |
| North American Profile of ISO 19139 2003 | | • | • | • |
| **Geoprocessing** | | | | |
| Export Metadata | | • | • | • |
| Export Metadata Multiple | | • | • | • |
| Import Metadata | | • | • | • |
| Import Metadata with Conversion | | • | • | • |
| Metadata Publisher | | • | • | • |
| Synchronize Metadata | | • | • | • |
| Upgrade Metadata | | • | • | • |
| Esri Metadata Translator | | • | • | • |
| Validate Metadata | | • | • | • |
| Validate Metadata Multiple | | • | • | • |
| USGS MP Metadata Translator | | • | • | • |
| XML Schema Validation | | • | • | • |
| XSLT Transformation | | • | • | • |

## Data Manipulation and Analysis

### Coverage Geoprocessing

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Application Framework** | | | | |
| Full-Featured Management and Analysis Environment for ArcInfo Coverage Data Format (All Tools Require ArcInfo Workstation be Installed and Licensed) | | | | • |
| **Analysis** | | | | |
| Clip | | | | • |
| Select | | | | • |
| Split | | | | • |
| Erase | | | | • |
| Identity | | | | • |
| Intersect | | | | • |
| Union | | | | • |
| Update | | | | • |
| Buffer | | | | • |
| Near | | | | • |
| Point Distance | | | | • |
| Point Node | | | | • |
| Thiessen | | | | • |
| **Conversion** | | | | |
| Export to DLG | | | | • |
| Export to Interchange File | | | | • |
| Export to S57 | | | | • |
| Export to SDTS | | | | • |
| Export to VPF | | | | • |
| Ungenerate | | | | • |
| Advanced TIGER Conversion | | | | • |
| Basic TIGER Conversion | | | | • |
| Generate | | | | • |
| Import from DLG | | | | • |
| Import from Interchange File | | | | • |
| Import from S57 | | | | • |
| Import from SDTS | | | | • |
| Import from VPF | | | | • |
| **Aggregation** | | | | |
| Append | | | | • |
| **Composite Features** | | | | |
| Line Coverage to Region | | | | • |
| Line Coverage to Route | | | | • |
| Polygon Coverage to Region | | | | • |
| Region to Polygon Coverage | | | | • |
| **Generalization** | | | | |
| Aggregate Polygons | | | | • |
| Simplify Building | | | | • |
| Collapse Dual Lines to Centerline | | | | • |
| Dissolve | | | | • |
| Eliminate | | | | • |
| Find Conflicts | | | | • |
| Simplify Line or Polygon | | | | • |
| **Table Management** | | | | |
| Drop Index | | | | • |
| Index Item | | | | • |
| Add Item | | | | • |
| Drop Item | | | | • |
| Join Info Tables | | | | • |
| Add X,Y Coordinates | | | | • |
| Renumber Nodes | | | | • |
| Update IDs | | | | • |
| **Projections** | | | | |
| Define Projection | | | | • |
| Project | | | | • |
| Transform | | | | • |
| **Topology** | | | | |
| Build | | | | • |
| Clean | | | | • |
| Create Labels | | | | • |
| VPF File Topology | | | | • |
| **General** | | | | |
| Create Coverage | | | | • |
| Tolerance | | | | • |

### Geoprocessing

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **Environment** | | | | |
| String Together Geoprocessing Tools Using a Visual Modeling Environment (ModelBuilder™) | | • | • | • |
| Use Python Window to Run Geoprocessing Tools | | • | • | • |
| Use Toolboxes Tree in ArcCatalog or Catalog Window | | • | • | • |
| Use ArcToolbox™ Window | | • | • | • |
| Use Search Window to Find Tools | | • | • | • |
| Use My Toolboxes Geoprocessing Tool View | | • | • | • |
| Create and Share New Geoprocessing Tools Using Models or Scripts | | • | • | • |
| Save Tools in a Geodatabase or on the File System | | • | • | • |
| Display the Results and Intermediate Data from a Model in a Map Using Tool Layers | | • | • | • |
| Execute Tools, Models, and Scripts Multiple Times with Different Inputs in One Operation (Batch Processing) | | • | • | • |
| Build Looping Models Using Model Iterators | | • | • | • |
| **Supported Scripting Environments** | | | | |
| C++ | | • | • | • |
| JavaScript | | • | • | • |
| Perl | | • | • | • |
| Python 2.6 | | • | • | • |
| Visual Basic for Applications (VBA)[8] | | • | • | • |
| VBScript | | • | • | • |
| Visual Studio .NET | | • | • | • |
| **General Data Management** | | | | |
| Append | | • | • | • |
| Copy | | • | • | • |
| Delete | | • | • | • |
| Delete Identical | | • | • | • |
| Find Identical | | • | • | • |
| Merge | | • | • | • |
| Merge Branch | | • | • | • |
| Rename | | • | • | • |
| Select Data | | • | • | • |
| Calculate Value | | • | • | • |
| Sort | | • | • | • |
| **Data Comparison** | | | | |
| Feature Compare | | • | • | • |
| File Compare | | • | • | • |
| Raster Compare | | • | • | • |
| Table Compare | | • | • | • |
| TIN Compare | | • | • | • |
| **Table Management** | | | | |
| Copy Rows | | • | • | • |
| Create Table | | • | • | • |
| Delete Rows | | • | • | • |
| Get Count | | • | • | • |
| **Editing** | | | | |
| Densify | | • | • | • |
| Erase Point | | • | • | • |
| Extend Line | | • | • | • |
| Flip Line | | • | • | • |
| Generalize | | • | • | • |
| Snap | | • | • | • |
| Trim Line | | • | • | • |
| Analyze | | | • | • |
| Change Privileges | | | • | • |
| Pivot Table | | | | • |
| **Field Management** | | | | |
| Add Field | | • | • | • |
| Assign Default to Field | | • | • | • |
| Calculate End Time | | • | • | • |
| Calculate Field | | • | • | • |
| Convert Time Field | | • | • | • |
| Delete Field | | • | • | • |
| Transpose Fields | | • | • | • |
| **Feature Class Management** | | | | |
| Append Annotation Feature Classes | | • | • | • |
| Calculate Default Cluster (XY) Tolerance | | • | • | • |
| Calculate Default Spatial Grid Index | | • | • | • |
| Create Feature Classes | | • | • | • |
| Create Fishnet | | • | • | • |
| Integrate | | • | • | • |
| Update Annotation Feature Classes | | • | • | • |
| Create Random Points | | | | •[8] |
| **Feature Management** | | | | |
| Add X,Y Coordinates | | • | • | • |
| Adjust 3D Z | | • | • | • |
| Bearing Distance to Line | | • | • | • |
| Check Geometry | | • | • | • |
| Copy Features | | • | • | • |
| Delete Features | | • | • | • |
| Multipart to Single Part | | • | • | • |
| Repair Geometry | | • | • | • |
| Points to Line | | • | • | • |
| Table to Ellipse | | • | • | • |
| XY to Line | | • | • | • |
| Dice | | | | • |
| Minimum Bounding Geometry | | | | • |
| Feature Envelope to Polygon | | | | • |
| Feature to Line | | | | • |
| Feature to Point | | | | • |
| Feature to Polygon | | | | • |
| Feature Vertices to Points | | | | • |
| Polygon to Line | | | | • |
| Split Line at Point | | | | • |
| Split Line at Vertices | | | | • |
| Unsplit Line | | | | • |
| **File Geodatabase** | | | | |
| Compress File Geodatabase Data | | • | • | • |
| Uncompress File Geodatabase Data | | • | • | • |
| **Generalization** | | | | |
| Dissolve | | • | • | • |
| Simplify Line (Cartography) | | | • | • |
| Smooth Line (Cartography) | | | • | • |
| Smooth Polygon (Cartography) | | | • | • |
| Aggregate Polygons (Cartography) | | | | • |
| Aggregate Points (Cartography) | | | | • |
| Collapse Dual Lines to Centerline (Cartography) | | | | • |
| Eliminate | | | | • |
| Eliminate Polygon Part | | | | • |
| Merge Divided Roads (Cartography) | | | | • |
| Simplify Building (Cartography) | | | | • |
| Simplify Polygon (Cartography) | | | | • |
| Thin Road Network (Cartography) | | | | • |
| **Projections and Transformations** | | | | |
| Convert Coordinate Notation | | • | • | • |
| Create Custom Geographic Transformation | | • | • | • |
| Create Spatial Reference | | • | • | • |
| Define Projection (Single Input) | | • | • | • |
| **Vector Data Projection** | | | | |
| Batch Project | | • | • | • |
| Project | | • | • | • |
| **Raster Management** | | | | |
| Add Color Map | | • | • | • |
| Batch Build Pyramids | | • | • | • |
| Batch Calculate Statistics | | • | • | • |
| Build Pyramids | | • | • | • |
| Build Pyramids and Statistics | | • | • | • |
| Build Raster Attribute Table | | • | • | • |
| Calculate Statistics | | • | • | • |
| Clip | | • | • | • |
| Composite Bands | | • | • | • |
| Copy Raster | | • | • | • |
| Copy Raster Catalog Items | | • | • | • |
| Create Orthocorrected Raster Dataset | | • | • | • |
| Create Pan-Sharpened Raster Dataset | | • | • | • |
| Create Raster Catalog | | • | • | • |
| Create Raster Dataset | | • | • | • |
| Delete Color Map | | • | • | • |
| Delete Raster Attribute Table | | • | • | • |
| Delete Raster Catalog Items | | • | • | • |
| Export Raster Catalog Paths | | • | • | • |
| Export Raster World File | | • | • | • |
| Extract Subdataset | | • | • | • |
| Repair Raster Catalog Paths | | • | • | • |
| Get Cell Value | | • | • | • |
| Get Raster Properties | | • | • | • |
| Mosaic (with Optional Color Balancing) | | • | • | • |
| Mosaic to New Raster | | • | • | • |
| Raster Catalog to Raster Dataset | | • | • | • |
| Raster to DTED | | • | • | • |
| Resample | | • | • | • |
| Split Raster | | • | • | • |
| Workspace to Raster Catalog | | • | • | • |
| Workspace to Raster Dataset (with Optional Color Balancing) | | • | • | • |
| Create Random Raster | | | | •[9] |
| **Raster Mosaics** | | | | |
| Add Rasters to Mosaic Dataset | | | • | • |
| Build Boundary | | | • | • |
| Build Footprints | | | • | • |
| Build Overviews | | | • | • |
| Build Seamlines | | | • | • |
| Calculate Cell Size Ranges | | | • | • |
| Color Balance Mosaic Dataset | | | • | • |
| Compute Dirty Area | | | • | • |
| Create Mosaic Dataset | | | • | • |
| Create Referenced Mosaic Dataset | | | • | • |
| Define Mosaic Dataset NoData | | | • | • |
| Define Overviews | | | • | • |
| Generate Exclude Area | | | • | • |
| Import Mosaic Dataset Geometry | | | • | • |
| Remove Rasters from Mosaic Dataset | | | • | • |
| Synchronize Mosaic Dataset | | | • | • |
| **Raster Conversion** | | | | |
| ASCII to Raster | | • | • | • |
| DEM to Raster | | • | • | • |
| Feature to Raster | | • | • | • |
| Float to Raster | | • | • | • |
| Raster to ASCII | | • | • | • |
| Raster to Float | | • | • | • |
| Raster to Other Format (Multiple) | | • | • | • |
| Raster to Point | | • | • | • |
| Raster to Polygon | | • | • | • |
| Raster to Polyline | | • | • | • |
| Raster to Video | | • | • | • |
| Point to Raster | | | | •[9] |
| Polygon to Raster | | | | •[9] |
| Polyline to Raster | | | | •[9] |
| **Raster Transformation/Projection** | | | | |
| Flip | | • | • | • |
| Mirror | | • | • | • |
| Project Raster (Single Input) | | • | • | • |
| Rescale | | • | • | • |
| Rotate | | • | • | • |
| Shift | | • | • | • |
| Warp | | • | • | • |
| **Conversion** | | | | |
| Feature Class to Feature Class | | • | • | • |
| Feature Class to Geodatabase (Multiple) | | • | • | • |
| Feature Class to Shapefile (Multiple) | | • | • | • |
| Import CAD Annotation to Geodatabase | | • | • | • |
| Import Coverage Annotation to Geodatabase | | • | • | • |
| Import from CAD to Geodatabase | | • | • | • |
| Raster to Geodatabase (Multiple) | | • | • | • |
| Table to dBASE (Multiple) | | • | • | • |
| Table to Geodatabase (Multiple) | | • | • | • |
| Table to Table | | • | • | • |
| Add CAD Fields | | • | • | • |
| Create CAD XData | | • | • | • |
| Export to CAD | | • | • | • |
| Import from E00 | | • | • | • |
| KML to Layer | | • | • | • |
| Layer to KML | | • | • | • |
| Map to KML | | • | • | • |
| Multipatch to Collaborative Design Activity (COLLADA) | | • | • | • |
| WFS to Feature Class | | | • | • |
| Feature Class to Coverage | | | | • |
| **Layers and Table Views** | | | | |
| Apply Symbology from Layer | | • | • | • |
| Make Feature Layer | | • | • | • |
| Make Image Server Layer | | • | • | • |
| Make Mosaic Layer | | • | • | • |
| Make Query Table | | • | • | • |
| Make Raster Catalog Layer | | • | • | • |
| Make Raster Layer | | • | • | • |
| Make Table View | | • | • | • |
| Make WCS Layer | | • | • | • |
| Make X,Y Event Layer | | • | • | • |
| Save to Layer File | | • | • | • |
| Select Layer by Attribute | | • | • | • |
| Select Layer by Location | | • | • | • |
| **Packaging** | | | | |
| Consolidate Layer | | • | • | • |
| Consolidate Map | | • | • | • |
| Extract Package | | • | • | • |
| Package Layer | | • | • | • |
| Package Map | | • | • | • |
| Share Package | | • | • | • |
| **Parcel Fabric Tools** | | | | |
| Make Parcel Fabric Layer | | • | • | • |
| Make Parcel Fabric Table View | | • | • | • |
| Load a Topology to a Parcel Fabric | | | • | • |
| Upgrade Parcel Fabric | | | • | • |
| **Core Analysis** | | | | |
| Buffer | | • | • | • |
| Clip | | • | • | • |
| Intersect | | • | • | • |
| Multiple Ring Buffer | | • | • | • |
| Select | | • | • | • |
| Spatial Join | | • | • | • |
| Summary Statistics | | • | • | • |
| Table Select | | • | • | • |
| Union | | • | • | • |
| Create Thiessen Polygons | | | | • |
| Erase | | | | • |
| Frequency | | | | • |
| Identity | | | | • |
| Near | | | | • |
| Generate Near Table | | | | • |
| Point Distance | | | | • |
| Split | | | | • |
| Symmetrical Difference | | | | • |
| Update | | | | • |
| **Spatial Statistics Tools—Analyzing Patterns** | | | | |
| Average Nearest Neighbor | | • | • | • |
| High/Low Clustering (Getis_Ord General G) | | • | • | • |
| Multidistance Spatial Cluster Analysis (Ripley's K Function) | | • | • | • |
| Spatial Autocorrelation (Moran's I) | | • | • | • |
| **Spatial Statistics Tools—Mapping Clusters** | | | | |
| Cluster/Outlier Analysis (Anselin Local Moran's I) | | • | • | • |
| Hot Spot Analysis (Getis_Ord Gi*) | | • | • | • |
| **Spatial Statistics Tools—Measuring Geographic Distributions** | | | | |
| Central Feature | | • | • | • |
| Directional Distribution (Standard Deviational Ellipse) | | • | • | • |
| Linear Directional Mean | | • | • | • |
| Mean Center | | • | • | • |
| Median Center | | • | • | • |
| Standard Distance | | • | • | • |
| **Spatial Statistics Tools—Modeling Spatial Relationships** | | | | |
| Generate Network Spatial Weights | | • | • | • |
| Generate Spatial Weights Matrix | | • | • | • |
| Geographically Weighted Regression | | • | • | • |
| Ordinary Least Squares Regression | | • | • | • |
| **Spatial Statistics Tools—Rendering** | | | | |
| Cluster/Outlier Analysis with Rendering | | • | • | • |
| Collect Events with Rendering | | • | • | • |
| Count Rendering | | • | • | • |
| Hot Spot Analysis with Rendering | | • | • | • |
| Z-Score Rendering | | • | • | • |
| **Spatial Statistics Tools—Utilities** | | | | |
| Calculate Areas | | • | • | • |
| Calculate Distance Band from Neighbor Count | | • | • | • |
| Collect Events | | • | • | • |
| Convert Spatial Weights Matrix to Table | | • | • | • |
| Export Feature Attribute to ASCII | | • | • | • |
| **Multidimensional Tools** | | | | |
| Feature to netCDF | | • | • | • |
| Make netCDF Feature Layer | | • | • | • |
| Make netCDF Raster Layer | | • | • | • |
| Make netCDF Table View | | • | • | • |
| Raster to netCDF | | • | • | • |
| Select by Dimension | | • | • | • |
| Table to netCDF | | • | • | • |
| **Workspace Management** | | | | |
| Create Feature Dataset | | • | • | • |
| Create File Geodatabase | | • | • | • |
| Create Folder | | • | • | • |
| Create Personal Geodatabase | | • | • | • |
| Create ArcInfo Workspace | | | | • |
| **Database Management** | | | | |
| Clear Workspace Cache | | • | • | • |
| Compact | | • | • | • |
| Upgrade Geodatabase | | • | • | • |
| Upgrade Spatial Reference | | • | • | • |
| Change Privileges | | | • | • |
| Compress | | | • | • |
| Register with Geodatabase | | | • | • |
| Migrate Storage | | | • | • |
| **Table Joins** | | | | |
| Add Join | | • | • | • |
| Remove Join | | • | • | • |
| **Data Indexing** | | | | |
| Add Attribute Index | | • | • | • |
| Add Spatial Index | | • | • | • |
| Remove Attribute Index | | • | • | • |
| Remove Spatial Index | | • | • | • |
| **ArcGIS Server Management** | | | | |
| Delete Map Server Cache | | • | • | • |
| Generate Globe Server Cache | | • | • | • |
| Generate Map Server Cache | | • | • | • |
| Generate Map Server Cache Tiling Scheme | | • | • | • |
| Update Map Server Cache | | • | • | • |

[8] VBA support is a separate installation and authorization from ArcGIS Desktop.

[9] Also available to ArcView or ArcEditor users who have the ArcGIS Spatial Analyst or ArcGIS 3D Analyst™ extension.

## Data

### ArcGIS Online Standard Services

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **2D and 3D Basemap Services** | | | | |
| World Transportation | | • | • | • |
| World User Imagery | | • | • | • |
| World User Imagery Coverage | | • | • | • |
| World Country Boundaries | | • | • | • |
| World Reference Overlay | | • | • | • |
| World Boundaries and Places | | • | • | • |
| World Boundaries and Places Alternate | | • | • | • |
| World Shaded Relief | | • | • | • |
| World Street Map | | • | • | • |
| USA Topographic Maps | | • | • | • |
| World Physical Map | | • | • | • |
| World Imagery | | • | • | • |
| DeLorme World Basemap | | • | • | • |
| Bing Maps Aerial | | • | • | • |
| Bing Maps Aerial with Labels | | • | • | • |
| Bing Maps Roads | | • | • | • |
| World UTM Grid | | • | • | • |
| USA Congressional Districts | | • | • | • |
| USA Federal Lands | | • | • | • |
| USA Population by ZIP Code | | • | • | • |
| USA Public Land Survey System (PLSS) | | • | • | • |
| USA State Plane Zones | | • | • | • |
| USA ZIP Code Boundaries | | • | • | • |
| World Georeference Lines | | • | • | • |
| World Terrain Database | | • | • | • |
| World Topographic Map | | • | • | • |

### Esri Data and Maps

| | ArcReader | ArcView | ArcEditor | ArcInfo |
|---|---|---|---|---|
| **World** | | | | |
| Countries 2008 | | • | • | • |
| Countries (generalized) | | • | • | • |
| Country Boundaries | | • | • | • |
| Country Boundaries (generalized) | | • | • | • |
| Administrative Units and Boundaries | | • | • | • |
| Regions and Continents | | • | • | • |
| Census IPC Demographics (table) | | • | • | • |
| Country Memberships of Political Organizations (table) | | • | • | • |
| Cities and Gazetteer | | • | • | • |
| Drainage Systems | | • | • | • |
| Lakes and Rivers | | • | • | • |
| World Wildlife Fund Terrestrial and Marine Ecoregions | | • | • | • |
| UTM Zones and Time Zones | | • | • | • |
| Latitude and Longitude Grids | | • | • | • |
| Named Latitudes and Longitudes | | • | • | • |
| World Map Background | | • | • | • |
| **Europe** | | | | |
| Europe Basemap | | • | • | • |
| Countries | | • | • | • |
| Level 1 to Level 3 Provinces | | • | • | • |
| Cities, Places, and Urbanized Areas | | • | • | • |
| Major Roads and Roads | | • | • | • |
| Railroads and Railroad Stations | | • | • | • |
| Major Lakes, Major Rivers, and Water Bodies | | • | • | • |
| Ferries | | • | • | • |
| Europe Demographics | | • | • | • |
| NUTS–0 to NUTS–3 Demographics | | • | • | • |
| **Mexico** | | | | |
| States, Cities, and Municipalities | | • | • | • |
| Urban Areas | | • | • | • |
| Roads and Railroads | | • | • | • |
| Contours | | • | • | • |
| Water Bodies, Rivers, and Streams | | • | • | • |
| **Image Data** | | | | |
| Global Digital Elevation Model (SRTM, ETOPO2, GTOPO30) | | • | • | • |
| Global Shaded Relief | | • | • | • |
| Global Imagery 150-Meter Resolution | | • | • | • |
| World Topography and Bathymetry | | • | • | • |
| WorldSat Color Shaded Relief | | • | • | • |
| World Cloud Free | | • | • | • |
| World at Night | | • | • | • |
| World with Clouds | | • | • | • |
| World with Ice | | • | • | • |
| **United States** | | | | |
| States | | • | • | • |
| States (generalized) | | • | • | • |
| State Boundaries | | • | • | • |
| Counties | | • | • | • |
| Counties (generalized) | | • | • | • |
| County Boundaries | | • | • | • |
| Cities | | • | • | • |
| Populated Place Points and Areas | | • | • | • |
| ZIP Code Points and ZIP Code Areas (three digit and five digit) | | • | • | • |
| Census Urbanized Areas | | • | • | • |
| Census Tracts and Census Block Groups | | • | • | • |
| Census Block Centroid Populations | | • | • | • |
| 109th Congressional Districts and 110th Congressional Districts | | • | • | • |
| Core Based Statistical Areas | | • | • | • |
| Telephone Area Code Boundaries | | • | • | • |
| County Population Estimates 1990 (table) and 2000 (table) | | • | • | • |
| Census Feature Class Codes (table) | | • | • | • |
| Major Roads, Major Highways, and Highways | | • | • | • |
| Drainage Systems (generalized) | | • | • | • |
| Lakes and Rivers (generalized) | | • | • | • |
| Rivers and Streams | | • | • | • |
| Water Bodies | | • | • | • |
| Major Parks | | • | • | • |
| Hospitals | | • | • | • |
| Airports | | • | • | • |
| Institutions | | • | • | • |
| Parks, Recreation Areas, and Large Area Landmarks | | • | • | • |
| Transportation Terminals | | • | • | • |
| GNIS Cultural Points | | • | • | • |
| Buildings | | • | • | • |
| Cemeteries | | • | • | • |
| Churches | | • | • | • |
| Golf Locales | | • | • | • |
| Hospitals | | • | • | • |
| Locales | | • | • | • |
| Populated Places and Schools | | • | • | • |
| Summits | | • | • | • |
| National Transportation Atlas | | • | • | • |
| Interstate Highways | | • | • | • |
| Railroads | | • | • | • |
| National Atlas of the United States | | • | • | • |
| Airports, Cities, and Urbanized Areas | | • | • | • |
| Federal and Indian Land Areas | | • | • | • |
| Federal Land Lines | | • | • | • |
| Water Feature Areas and Water Feature Lines | | • | • | • |
| Public Land Survey | | • | • | • |
| Historic Earthquakes | | • | • | • |
| Volcanoes | | • | • | • |
| State Plane Zones for NAD 1927 and NAD 1983 | | • | • | • |
| USGS Topographic Quadrangle Series Indexes | | • | • | • |
| 1:24,000 | | • | • | • |
| 1:100,000 | | • | • | • |
| 1:250,000 | | • | • | • |
| **StreetMap North America** | | | | |
| States and Provinces | | • | • | • |
| State and Province Boundaries | | • | • | • |
| U.S. Counties and County Boundaries | | • | • | • |
| City Points and City Areas | | • | • | • |
| ZIP Code Points and ZIP Code Areas | | • | • | • |
| Detailed Streets and Major Roads | | • | • | • |
| Major Cities | | • | • | • |
| Highway, Interstate Highways, and Railroads | | • | • | • |
| Lakes, Rivers, and Water Bodies | | • | • | • |
| Airports | | • | • | • |
| Institutions | | • | • | • |
| Parks, Recreation Areas, and Large Area Landmarks | | • | • | • |
| Transportation Terminals | | • | • | • |
| Retail Centers | | • | • | • |

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120713
INLD20M6/10dh

Printed in USA