Goals

- Cover all of ArcGIS, high pass, developer's angle
  - What is there?
  - What can I do with it?
  - What resources are available to get the most from it all?
  - Where is the community?

- How do I get started?
Who are you?

- **GIS pro**
  - new to dev?

- **Experienced developer**
  - new to ArcGIS?

- **Project Lead?**
Agenda

• **ArcGIS as a developer's toolbox**
  - Desktop applications
    - ArcGIS Explorer Desktop, ArcGIS Desktop, ArcGIS Engine
  - Geoprocessing
  - Geodatabase
  - Client-Server applications
    - ArcGIS Server
    - Web and Mobile Apps and APIs

• **Developer Resources**
esri.com/what-is-gis
ArcGIS Explorer
ArcGIS Explorer

Free to use, develop against, and deploy

For Developers

1. Application Configuration
   - UI and functional customization, no code necessary

2. ArcGIS Explorer SDK
   - Create Add-ins with Visual Studio

• Portable files, easy to share
ArcGIS Explorer Application Configuration
ArcGIS Explorer SDK

Using the ArcGIS Explorer Samples

Summary

This document outlines the common tasks associated with working with samples. These include opening the solution, compiling, setting it up for debugging, running the sample, and unregistering it when you are done.

About Using the ArcGIS Explorer Samples

The ArcGIS Explorer Software Developer Kit (SDK) contains a number of samples for you to use. When necessary, a ReadMe file is included with a sample. However, there are a few steps that must be taken for all samples. The following first two steps are common to all samples:

- Opening solution files
- Compiling samples
- Debugging samples (optional step)
- Running samples
- Removing samples

Visual Studio settings—The first time you are prompted to choose development settings, the options displayed in Visual Studio may differ from what is displayed in the class diagram. Commonly, however, these settings are used to create a new project and a Visual Studio solution to add the sample to your development environment.
ArcGIS Explorer  

Creating Add-Ins

Templates
www.arcgis.com
upload, download
share, groups
tools, maps, apps
Welcome to the ArcGIS Explorer .NET developer help

- Welcome to the ArcGIS Explorer .NET developer help
- Glossary
- New API types and members
- Getting Started with ArcGIS Explorer customizations
- Visual Studio
- Deploying Add-ins
- ArcGIS Explorer namespace overviews
- Programming with the ArcGIS Explorer API

Samples
- Samples
- Application Conditions
- Bookmark Gallery
- Drive Time Analysis
- GeoNames Find
- Layer Attributes
- Locale Specific ComboBox
- Map Content Updates
- Query Demographics
- Query Features
- Track Shapes
- Update node Geometry
- VehicleTracker Extension
- Class diagrams and namespace reference

Download the files for all languages

<table>
<thead>
<tr>
<th>C#</th>
<th>VB.NET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension.cs</td>
<td>This class defines the Extension, and also contains all code to read the XML information and show Graphics on the map. (view code)</td>
</tr>
<tr>
<td>Vehicle.cs</td>
<td>This class holds information about a vehicle. (view code)</td>
</tr>
<tr>
<td>ZoomToLouisville.cs</td>
<td>This class defines a Button which zooms to the area used to display Graphics. (view code)</td>
</tr>
</tbody>
</table>

See Also:
- BackgroundWorker
What's New in ArcGIS Explorer Desktop (build 1700)

ArcGIS Explorer is a free, downloadable GIS viewer that provides an easy way to explore, visualize, share, and present geographic information.

The latest release of ArcGIS Explorer builds upon previous releases and adds new features that make it a great choice for providing wider access to your geographic information and GIS capabilities. These new features include the following:

**GPS Integration**

Any GPS device (NMEA compliant) can be connected to ArcGIS Explorer to collect data. GPS data can be collected at the click of a button, or collected at specified regular time intervals. Explorer also includes tools to manage and display waypoints, tracks, and routes, which are stored and managed as notes.
Demo Theater

- Configuring and Customizing ArcGIS Explorer Desktop
- Wednesday @ 5:00pm
- Thursday @ 10:00am
ArcGIS Desktop
Create a Map
ArcGIS Desktop

The professional GIS workstation

For Developers

1. Customization of UI and functionality
2. ArcObjects SDK
   - .NET, VC++
3. Add-ins
   - .NET, Java (Eclipse)
4. Script Tools
   - Python
ArcGIS Desktop

Customizing
ArcGIS Desktop  ArcObjects
ArcGIS Desktop

Creating add-ins

- Create or share - *esriAddin
- Copy into well-known location - local or network
- Install wizard
- Use

- Key advantages over classic ArcObjects dev pattern
ArcGIS Desktop

Creating add-ins

![Visual Studio 2008 template selection](image)

- Templates
- Desktop Add-ins

Name: ArcCatalogAddin1
ArcGIS Desktop

Creating add-ins

- Buttons
- Tools
- Combo Boxes
- Multi-Items
- Menus
- Context Menus
- Toolbars
- Tool Palettes
- Dockable Windows
- Application Extensions
- Editor Extensions

AddIn File (zipped folder)

Assemblies/JARs

XML Metadata

Resources
ArcGIS Desktop

Creating add-ins
ArcGIS Desktop

Creating add-ins
Find and Install and Add-in
ArcGIS Engine
ArcGIS Engine

Embeddable and Extensible GIS Components

For Developers

- ArcObjects SDK
  - .NET, Java, VC++, Cross-platform C++
  - 1000s of classes, interfaces, methods
  - 10+ controls

- Compiled and deployed stand-alone applications
Create an app using ArcGIS Engine
How to get started with Microsoft Visual Studio

• Express editions are free
  - VB, C#, substantial capabilities
  - online training, beginner's books

• MS site
  - tutorials, videos, sample code
Visual Studio Community

vbforums.com

xtremevbtalk.com
Geoprocessing

Interrogating, manipulating, managing map data

For Developers

Interactive scripting window
Use Modelbuilder then export as a script

Portable files, easy to share
• .py, .gpk, .esriAddIn
In the following code example, the `CreateFeatureClass` tool is executed using a spatial reference object for its optional Coordinate System parameter. The spatial reference object is created using the `SpatialReference` class, and its information is loaded from a projection file.

```python
import arcpy

# A spatial reference object
spatialRef = arcpy.SpatialReference()

# Use a projection file to define the spatial reference's properties
spatialRef.createFromFile("C:\Program Files\ArcGIS\Desktop10.0\Coordinate Systems\Projected Coordinate Systems\Continental\North America\World\WGS_1984_UTM_Zone_10N.prj")

# Run CreateFeatureClass using the spatial reference object
arcpy.CreateFeatureclass_management(inputWorkspace, outputName, "POLYLINE", **spatialRef)
```
Interactive Python
http://www.python.org/about/gettingstarted/
Geodatabase

- Components
- ArcObjects
- File Geodatabase API
Geodatabase

- Components
Geodatabase

- ArcObjects
Geodatabase

- File Geodatabase API
Agenda

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• Developer Resources
Resource Center: Quick Tour
Geoprocessing

Geoprocessing is for everyone that uses ArcGIS. Whether you're a new or advanced user, geoprocessing is likely an essential part of your day-to-day work with ArcGIS. The fundamental purpose of geoprocessing is to provide tools for performing analysis and managing your geographic data. The modeling and analysis capabilities geoprocessing provides make ArcGIS a complete geographic information system.

Geoprocessing provides a large suite of tools for performing GIS tasks that range from simple buffers and polygon overlays to complex regression analysis and image classification. Geoprocessing also provides methods for automating GIS tasks and developing custom workflows that can be shared with others both within and outside your organization.

Learn more about geoprocessing
Learn more about the role of geoprocessing in ArcGIS
Learn more about what's new for geoprocessing in ArcGIS 10
What is geoprocessing?

Geoprocessing is for everyone that uses ArcGIS. Whether you’re a beginning user or a pro, geoprocessing will become an essential part of your day-to-day work with ArcGIS.

The fundamental purposes of geoprocessing are to allow you to automate your GIS tasks and perform spatial analysis and modeling. Almost all uses of GIS involve the repetition of work, and this creates the need for methods to automate, document, and share multiple-step procedures known as workflows. Geoprocessing supports the automation of workflows by providing a rich set of tools and a mechanism to combine a series of tools in a sequence of operations using models and scripts.

The kinds of tasks to be automated can be mundane—for example, to wrangle herds of data from one format to another. Or the tasks can be quite creative, using a sequence of operations to model and analyze complex spatial relationships—for example, calculating optimum paths through a transportation network, predicting the path of wildfire, analyzing and finding patterns in crime locations, predicting which areas are prone to landslides, or predicting flooding effects of a storm event.

Geoprocessing is based on a framework of data transformation. A typical geoprocessing tool performs an operation on an ArcGIS dataset (such as a feature class, raster, or table) and produces a new dataset as the result of the tool. Each geoprocessing tool performs a small yet essential operation on geographic data, such as projecting a dataset from one map projection to another, adding a field to a table, or creating a buffer zone around features. ArcGIS includes hundreds of such geoprocessing tools.

![Geoprocessing Diagram](image)

Geoprocessing allows you to chain together sequences of tools, feeding the output of one tool into another. You can use this ability to compose an infinite number of geoprocessing models (tool sequences) that help you automate your work and solve complex problems.

To learn more about geoprocessing and what users like you do with geoprocessing, visit the Geoprocessing Resource Center.

**Project and Clip**

[Further content may be present, but is not visible in the image.]
**Identify features on a map**

**View live sample**

**Description**

This sample demonstrates how to identify features at a point you click on the map. The Identify task can retrieve information from multiple layers at once, whereas the layer at a time.

Identify operations can potentially return a lot of information, depending on the tolerance you set. The tolerance is the number of pixels a feature is allowed to lie outside a tolerance before it is counted as a result. You can limit the layers and the tolerance using identify parameters. Identifying a small space can still be a challenge. This sample uses a TabContainer from the Dojo Dijit library in a tabbed interface.

This sample contains numerous functions that run in the following sequence:

- **init** - Sets up the map and adds an imagery base map from ArcGIS Online Portland from the ESRI Sample Server.
- **initFunctionality** - Called when the map loads. Sets up the **IdentifyTask** and the options for the **Symbol** and **InfoWindow** that will display the results. The URL to the ArcGIS Server map service whose layers will be identified is obtained services using the **Services Directory**.
- **doIdentify** - Called when someone clicks the map. Clears any existing coordinates to the identify parameters, and executes the identify.
- **addToMap** - Called when the Identify task completes. Loops through each layer depending on which layer the result came from. This produces three additional elements designated as content for the TabContainer Dijit. This function also displays the result information.
- **layerTabContent** - Called as a helper function to addToMap. Formats TabContainer Dijit.
- **showFeature** - Called when someone clicks the "Show" link in the resulting tab.
using System.Windows;
using System.Windows.Controls;
using ESRI.ArcGIS.Client;
using ESRI.ArcGIS.Client.Tasks;

namespace ArcGISESilverlightSDK{
public partial class SimpleClusterer : UserControl{

    public SimpleClusterer()
    {
        InitializeComponent();
    }

    void MyMap_PropertyChanged(object sender, System.ComponentModel.PropertyChangedEventArgs e)
    {
        if (e.PropertyName == "SpatialReference")
        {
            LoadGraphics();
            MyMap_PropertyChanged = MyMap_PropertyChanged;
        }
    }

    private void LoadGraphics()
    {
        QueryTask queryTask =
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Learn more about geoprocessing

Learn more about the role of geoprocessing in ArcGIS

Learn more about what’s new for geoprocessing in ArcGIS 10
User Conference 2011 -- Analysis and Geoprocessing

Wednesday, July 06, 2011 10:28 AM

The 2011 User Conference is just days away and the adrenaline and coffee is flowing here! We -- the Spatial Analysis Teams -- look forward to meeting you, answering questions, and taking your suggestions and comments. So do visit us in the Esri Showcase at the Spatial Analysis Island. We'll have individual areas set up for the following functionality/subject area:

- 3D Analyst
- Geocoding
- Core geoprocessing (geoprocessing tools/techniques)
- Geostatistical Analyst
- ModelBuilder
- Network Analyst
- Python Scripting
- Spatial Analyst
- Spatial Statistics

The map of the island is at the bottom of this post. We've set up our schedule so that there will always be two people staffing each function/subject area. If you need to meet a specific team member, check her/his schedule at the Esri Info Desk -- a few short steps from us at the Esri Showcase entry.

The Esri Showcase and Spatial Analysis island hours are: Tuesday and Wednesday 9 am – 6 pm, and Thursday 9 am – 1.30 pm.

Note that in the Online Agenda you find our Technical Workshops and Demo Theater presentations under the Track Title Analysis and Geoprocessing.
Geoprocessing

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ArcGIS Resource Center

Ideas

Welcome, Guest
Login

View By Status
All

Products
- ArcGIS Desktop
- ArcGIS Desktop Extensions
- ArcGIS Engine
- ArcGIS Explorer
- ArcGIS Mobile
- ArcGIS Online
- ArcGIS Server
- ArcLogistics
- ArcPad
- Business Analyst
- Geodatabase
- Imagery
- Maps and Content

ArcGIS Explorer:

Add a spellchecker to ArcMap for text elements in the layout.

Enhance graphics capability and functionality

Under Consideration

Implemented

ideas.arcgis.com
Developing

You can create your own tools using ModelBuilder or Python. Tools you create are called custom tools and become an integral part of geoprocessing, just like system tools (those installed with ArcGIS Desktop). You can open and run your tools from the Search, Catalog, or ArcToolbox window, use them in ModelBuilder and the Python window, call them from another script, or add them as a toolbar button.

Learn more about creating your own tools
Learn more about adding tools to a toolbar
Adding and removing tools on menus and toolbars

Note: Before you can add a tool to a menu or toolbar, you must know the name of the toolbox that contains the tool.

Adding a system tool to a menu or toolbar

Steps:
1. On the Standard toolbar, click Customize > Customize Mode.
2. In the Customize window, click the Commands tab.
3. In the Categories list, click the toolbox that contains the tool. All tools within the toolbox will be listed with their name. For example, the Analysis toolbox will say Analysis Tools. The Commands list shows all tools within the toolbox.
4. Drag the tool from the Commands list onto an existing menu or toolbar.
ArcGIS Online

Maps and Apps for Everyone

Easy online discovery, access, visualization, and dissemination of geospatial information.

VIEW NOW

Featured Maps

- The Commonwealth Map (Kentucky's Roads Map)
- USA Federal Lands
- Ocean Basemap
- World Bank Price, Global and Colombia
Search Results

3211 public groups found

Relevance Title Owner Date

Python Resources
A collection of Python resources for ArcGIS
created by teampython on July 8, 2011

Collier County - ArcGIS for Local Government
Collier County - ArcGIS for Local Government
created by saricharlotte88 on July 8, 2011

Gemplex
Gemplex - GIS geeks downunder
created by aburgon on July 7, 2011

Alaska Division of Geological & Geophysical Surveys
Working group for DGGS and partners.
created by weaklandjr on July 7, 2011

WMS Services
This group includes a variety of map services published using the Web Map Service specification.

Related Searches

More Information

What types of items can I find here?

Advanced search options

Finding layer packages and other ArcGIS desktop content.
ESRI Developer Network (EDN)

- Annual Subscription
- Developer license
- ArcGIS platform
  - products, extensions
  - desktop, server, web, mobile
  - full functionality - it's everything
- Design, prototype, test, build
- Defer production costs until deployment
Esri Developer Network

EDN Subscription
Esri Developer Network (EDN) is available through an annual subscription and provides a cost-effective way to license Esri ArcGIS products and tools.

- Learn more about EDN
- EDN License Activation and Renewal
- Manage my 9x EDN subscription
- Manage my 10x EDN subscription

Resource Center
The ArcGIS Resource Center contains the integrated support and community resources to help you be successful.

- ArcGIS Resource Center
- Developer resources for ArcGIS version 9.2 and prior

Developer Community
Interact and share resources with developers around the World.

- Esri Developer Summit
- Esri Dev Meet Ups

edn.esri.com
Free Live Training Seminars
Next seminar: August 18, 2011
Getting the Most Out of ArcGIS Explorer Online
Learn how to quickly create compelling maps that showcase your geographic information using this friendly—and free—online application.

Training News
Add-ins Add-Up for ArcGIS Developers
Course teaches how to extend ArcGIS Desktop 10 using the new add-in framework.

Want to get your 3D on?
These courses show you how to take your GIS maps and analyses to the 3rd dimension.

Get Your GIS Work Done Faster
Learn how to automate everyday tasks with Python scripting.

ArcGIS Desktop Certification
Our Skills Review courses can help you prepare for the exam. Classes are available in our instructor-led classrooms.

training.arcgis.com
Developer Training

Instructor-Led Classroom
• ArcObjects, Python, Web Mapping APIs

Instructor-Led Virtual Classroom Online
• 40% of training seats in 2011

Virtual Campus
• >80 courses online, self-paced

Live Training Seminars
• Free, recorded, 1hr training with interactive Q&A

More options for limited training, travel budgets
support.esri.com
DS2011: Python for Working with ArcGIS

2011 Esri Developer Summit
Palm Springs, CA

Python for Working with ArcGIS
Jason Pardy & Ghislain Prince

Description:
Python is an open-source, extendible, general-purpose programming language.
JavaScript

Not to be confused with Java (programming language).

For the use of JavaScript on wiki.gis.com, see wiki.gis.com JavaScript.

JavaScript is a scripting language used to enable programmatic access to objects within both the client application and other applications. It is primarily used in the form of client-side JavaScript, implemented as an integrated component of the web browser, allowing the development of enhanced user interfaces and dynamic websites. JavaScript is a dialect of the ECMAScript standard and is characterized as a dynamic, weakly typed, prototype-based language with first-class functions. JavaScript was influenced by many languages and was designed to look like Java, but to be easier for non-programmers to work with.

Contents

1 History and naming
2 Features
   2.1 Imperative and structured
   2.2 Dynamic
   2.3 Functional
   2.4 Prototype-based
   2.5 Miscellaneous
   2.6 Vendor-specific extensions
3 Syntax and semantics
4 Use in web pages
   4.1 Compatibility considerations
   4.2 Security
      4.2.1 Cross-site vulnerabilities
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5 JavaScript engines
   5.1 Browser engines
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6 Compliance
7 Popular use
8 Syntax
9 History
10 Implementation
11 External links
12 Notes
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14 Further reading
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</table>
Implement IEditSketch interface for custom cad tools.

I want to build cad tools which will be used in municipality applications on esri. Let me tell the question. The user wants to edit on the map and does it by using IEditSketch. But I want to write a...

How to create a Esri Context Menu on desktop development

How can I create a context menu on Esri ArcGIS Desktop. And after creating it, how can I use it while a base command is open and active? I use C# but I can understand Visual Basic. Thanks for your...

ESRI Desktop Zoom to the feature

I find a feature by using IFeatureClass Search then I want to show the feature on the screen. How can I do that? Is there a zoom interface or else?

What Questions should attendees of the Esri UC be asking? [migrated]

If you won't be able to attend the UC this year, but have a question for Esri, post your question as an answer in this thread. If you see a good question, please upvote it. Hopefully the good...

gis.stackexchange.com
Welcome to the Esri User Conference!

- **Developer Track**
  - 30 sessions, meetings

- **Product Islands**
  - Meet the engineers and developers
  - Desktop Developer Island & Demo Theater

- **Tech Support Island**
  - Discuss good ideas, solve tough problems