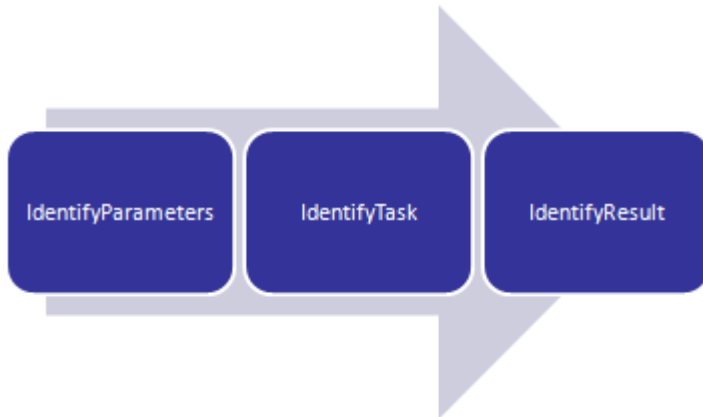
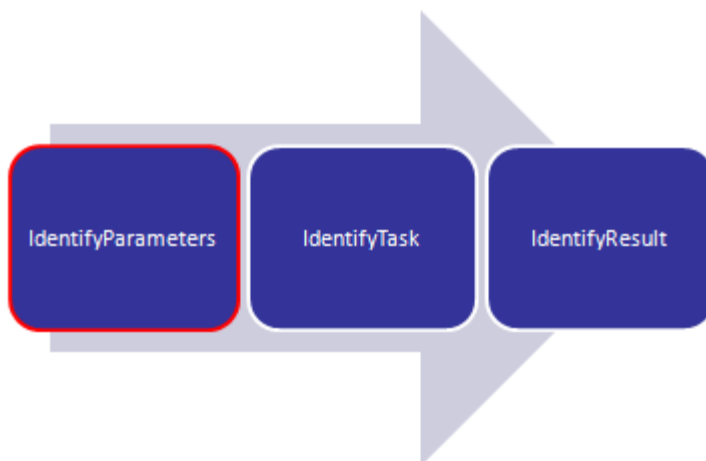


## Chapter 13: Obtaining Feature Information

Identifying features is another common operation found in any GIS application. This common operation typically requires a click on the map and then the application returns the attributes of features that have been clicked on a map.



This functionality is accomplished through the API with the `IdentifyTask` class. As with the other task processes the `IdentifyTask` object uses an input parameters object. This input object, called `IdentifyParameters`, contains various parameters that control the results of an identify operation. A number of properties can be set for your identify operation with the `IdentifyParameters` object. Parameters include the geometry used to select features, the layer ids on which to perform an identify, and the tolerance from the specified geometry within which the identify should be performed. An identify can be performed on individual layers, the top most layer in a service, all visible layers in a service, or all layers in a service.



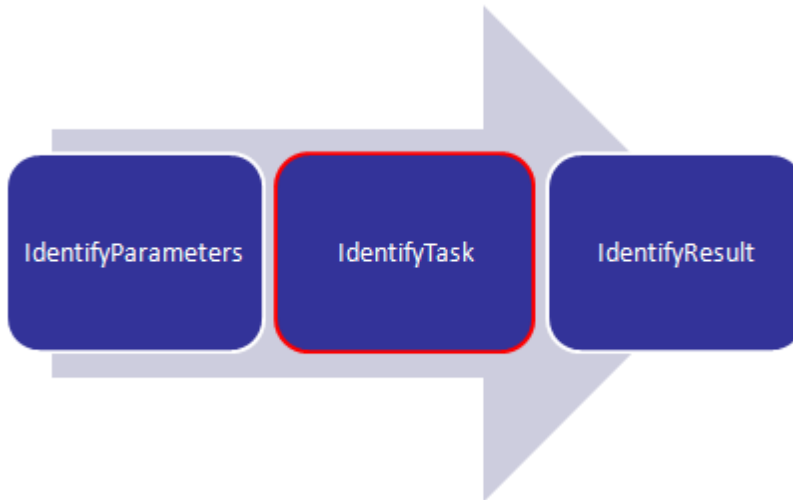
```

var identifyParams;

identifyParams = new esri.tasks.IdentifyParameters();
identifyParams.tolerance = 3;
identifyParams.returnGeometry = true;
identifyParams.layerIds = [2,3,4];
identifyParams.layerOption = esri.tasks.IdentifyParameters.LAYER_OPTION_ALL;

```

IdentifyTask performs the identify operation on one or more layers using the parameters specified in IdentifyParameters. As with the other tasks that we've examined, IdentifyTask needs a pointer to a URL that identifies the map service to use for the identify operation.



```

var identifyParams, identifyTask;

identifyTask = new esri.tasks.IdentifyTask("http://sampleserver1.arcgisonline.com/ArcGIS/rest/services/Portland/Portland_ESRI_LandBase_AGO/MapServer");

identifyParams = new esri.tasks.IdentifyParameters();
identifyParams.tolerance = 3;
identifyParams.returnGeometry = true;
identifyParams.layerIds = [2,3,4];
identifyParams.layerOption = esri.tasks.IdentifyParameters.LAYER_OPTION_ALL;

identifyParams.geometry = evt.mapPoint;
identifyParams.mapExtent = map.extent;

identifyTask.execute(identifyParams, function(idResults) { addToMap(idResults, evt); });

```

The results of an identify operation performed with IdentifyTask are stored in an instance of IdentifyResult. This object contains the feature returned from the operation along with the layer id and layer name where the feature was found.

