

## ArcToolbox

### Clip

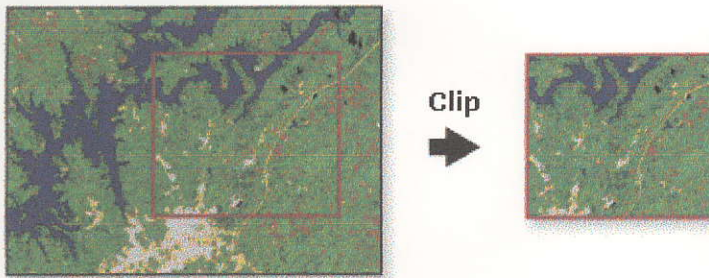
Related topics

[collapse all](#)

[Open Tool](#)

Creates a spatial subset of a raster dataset. The clipped area is specified by a rectangular envelope. The rectangular envelope extents are specified using minimum and maximum X and Y coordinates.

#### ▼ Illustration



#### ▼ Usage Tips

- The CLIP tool allows you extract a portion of a raster dataset, based on a rectangular extent.
- The minimum and maximum x and y extents allows you to define the clip extents for your output raster dataset.
- The extent values must be in the same spatial coordinates and units as the raster dataset.
- For information about tool licensing (which tools are available in ArcView, ArcEditor and/or ArcInfo), see [Geoprocessing Commands Quick Reference Guide](#).

#### ▼ Command line syntax

[Introducing geoprocessing methods - Using dialog boxes and the command line](#)

Clip\_management <in\_raster> <rectangle> <out\_raster>

##### Parameters

###### Expression

<in\_raster>

<rectangle>

<out\_raster>

###### Explanation

Input raster dataset.

The rectangle defining the area to be clipped.

Define in the order : the X-Minimum, Y-Minimum, X-Maximum, Y-Maximum

Output raster dataset.

When not saving to a geodatabase, specify .tif for a TIFF file format, .img for an ERDAS IMAGINE file format, or no extension for a GRID file format.

#### Command Line Example

```
Clip_management D:\images\OverviewImage\Layer_1 '549790 5272863 549870 5273000' D:\images\ClippedOve
```

#### ▼ Scripting syntax

[Introducing geoprocessing methods - Running a script](#)

Clip\_management (in\_raster, rectangle, out\_raster)

### Parameters

#### Expression

Input raster (Required)

Rectangle (Required)

Output raster (Required)

#### Explanation

Input raster dataset.

The rectangle defining the area to be clipped.

Define in the order : the X-Minimum, Y-Minimum, X-Maximum, Y-Maximum

Output raster dataset.

When not saving to a geodatabase, specify .tif for a TIFF file format, .img for an ERDAS IMAGINE file format, or no extension for a GRID file format.

### Script Example

```
from win32com.client import Dispatch
gp = Dispatch('esriGeoprocessing.GpDispatch.1')
gp.workspace = "c:/seattle_data"
gp.Clip("seattle1.tif", "549790.051000 5272863.993000 549870.051000 5273000.993000", "seattle_clip.img")
```

### ▼ Map Algebra syntax

Not available.

### ▼ ArcObjects syntax

See [Clip](#).

The Spatial Analyst extension must be present to use this link.