

Tile Package Kreator

Feature Guide as of 1.3.29



Windows | Mac | Linux

Download Links



Windows

<http://links.esri.com/esrilabs/tile-package-kreator-windows>



OS X

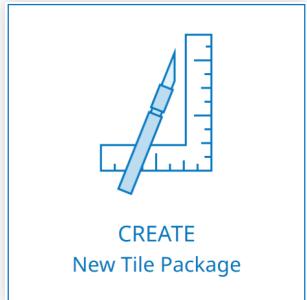
<http://links.esri.com/esrilabs/tile-package-kreator-mac>



Linux

<http://links.esri.com/esrilabs/tile-package-kreator-ubuntu>

Features



CREATE
New Tile Package

CREATE New Tile Packages

Set an extent or draw a path and set a buffer, select zoom levels, choose to save locally or upload to ArcGIS online and share.



UPLOAD
Local Tile Package

UPLOAD Local Tile Package

Select or drag and drop an existing .tpk file, update the title and add a description, share or keep private.



BROWSE
Organization Tile Packages

BROWSE Organization Tile Packages

Browse tile packages shared with your organization, view metadata and download locally for use in other applications such as Survey123.

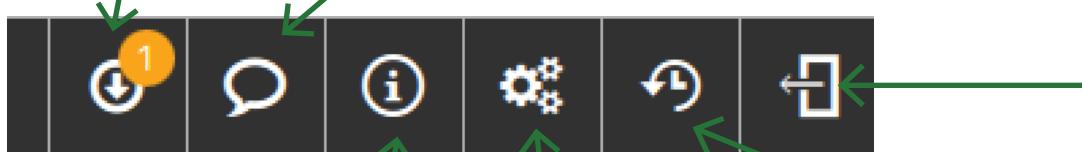
TOOLBAR - Overview

Updates

Will appear if newer versions of the application are available for download

Feedback

Provides a form in which a user can quickly provide feedback to the development team.



Sign out

Signs the current user out of ArcGIS online account.

About

Provides information about the application including links to terms of use.

Settings

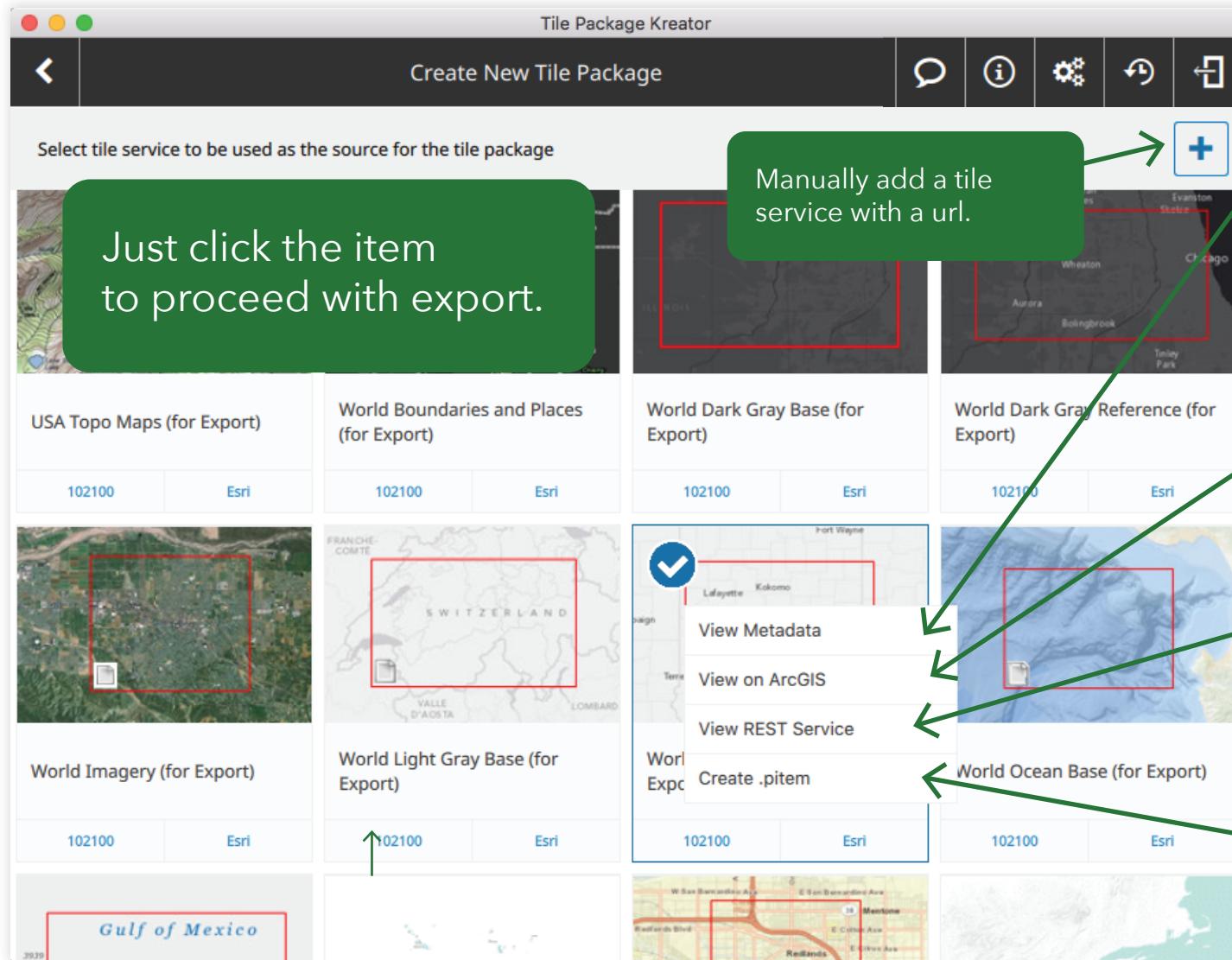
Allows you to set various application settings to improve performance and customize search queries.

History

Provides a view of export and upload history for future reference. See next page.

CREATE - Select Tile Service

Browse the available tile services that can be used to create tile packages. Some are Esri services, others may be organizational or third party. You can also manually add a tile service.



The screenshot shows the 'Tile Package Kreator' application window titled 'Create New Tile Package'. The main area displays a grid of tile service items. A green callout box with the text 'Just click the item to proceed with export.' points to the 'World Imagery (for Export)' item. Another green callout box with the text 'Manually add a tile service with a url.' points to the '+' button in the top right corner of the interface.

Service Type	ID	Provider
USA Topo Maps (for Export)	102100	Esri
World Boundaries and Places (for Export)	102100	Esri
World Dark Gray Base (for Export)	102100	Esri
World Dark Gray Reference (for Export)	102100	Esri
World Imagery (for Export)	102100	Esri
World Light Gray Base (for Export)	102100	Esri
Gulf of Mexico	3939	

A detailed view of the 'World Imagery (for Export)' item is shown in a modal window. The modal includes a checkmark icon, a red-bordered 'View Metadata' button, a blue-bordered 'View on ArcGIS' button, a blue-bordered 'View REST Service' button, and a blue-bordered 'Create .pitem' button. A green arrow points from the 'View Metadata' button to the 'View REST Service' button. Another green arrow points from the 'View REST Service' button to the 'Create .pitem' button. A third green arrow points from the 'Create .pitem' button to the 'World Ocean Base (for Export)' item in the grid below.

You may also

View Metadata

Displays a dialog with the tile package's metadata.

View on ArcGIS

This will open a web browser and link to the item's listing on ArcGIS.

View REST Service

This will open a web browser and link to the item's REST service page.

Create .pitem file

.pitem files can be used with programs such as ArcMap to open services.



CREATE
New Tile Package

CREATE - Interface Overview

The screenshot illustrates the CREATE interface with several callout boxes and arrows pointing to specific features:

- Geosearch**: Points to the search bar labeled "Search address or @lat,lon".
- Drawing Tools: Extent, Polygon, Path**: Points to the drawing tools icon in the top right.
- Redraw Last**: Points to the redrawing tool icon.
- Bookmarks**: Points to the bookmarks icon.
- Zoom Map Tools**: Points to the zoom controls (+/-) and the extent/polygon path tool.
- Map Current Zoom Level**: Points to the "Zoom Level" input field containing "15.0".
- Mouse Cursor Lat / Long**: Points to the "Cursor Coordinate" input field containing "35.2245N 80.8392W".
- Estimated Tile Package Size**: Points to the "Estimated Output Size" input field containing "Tiles: -- Size: --".
- Switch Tile Service**: Points to the "Current Tile Service" dropdown menu.
- Range of Levels**: Points to the "Number of Zoom Levels" slider.
- Title (also used to create filename)**: Points to the "Title *" input field containing "World Street Map TPK".
- Local / Upload options**: Points to the "Save To" section, specifically the "Upload tile package to ArcGIS" radio button.
- Create Tile Package**: Points to the main "Create Tile Package" button at the bottom right.



CREATE
New Tile Package

CREATE - Using a Buffered Path

Path Drawing Tool

Search address or @lat,lon

Save as bookmark

Delete Path

Extent / Path Drawn

Zoom Level Cursor Coordinate Estimated Output Size

12.0 35.7233N 80.9867W Not Available with Paths

Buffer distance along path using meters, feet, miles or kms

Current Tile Service: World Topographic Map (for Export)

Number of Zoom Levels: 12 - 15

Buffer Radius: 500 ft

Title*: Catawba River

Save To:

- Save tile package locally
- Upload tile package to ArcGIS

Description: 4000

Create Tile Package

! Not Available with paths !

Buffer distance along path using meters, feet, miles or kms

Path Drawing Tips

To Finish Drawing Path

Enter or return

You can also double click on the map after the last point is added

To Delete Previous Points

Backspace or delete

To Pan Map While Drawing

Press & Hold

Shift

+ Press and Hold Left Mouse Key while panning map.



CREATE
New Tile Package

CREATE - Using a Polygon

Polygon Drawing Tool

Save as bookmark

Delete Polygon

Extent / Path Drawn

Zoom Level 15.0

Cursor Coordinate ---

Estimated Output Size Tiles: ~8 Size: ~1.62Mb

Current Tile Service World Topographic Map (for Export)

Number of Zoom Levels 12 - 15

Title * Wrightsville

Save To Save tile package locally Upload tile package to ArcGIS

Description 4000

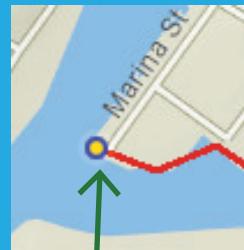
Share this item with: Do not share Your organization

Create Tile Package

This is just an estimate. The actual value is calculated via the export service prior to submitting the export request. If the requested tile count exceeds what is allowed, the request will be denied.

Polygon Drawing Tips

To Finish Drawing Polygon



Click the gold and blue starting point circle

To Delete Previous Points

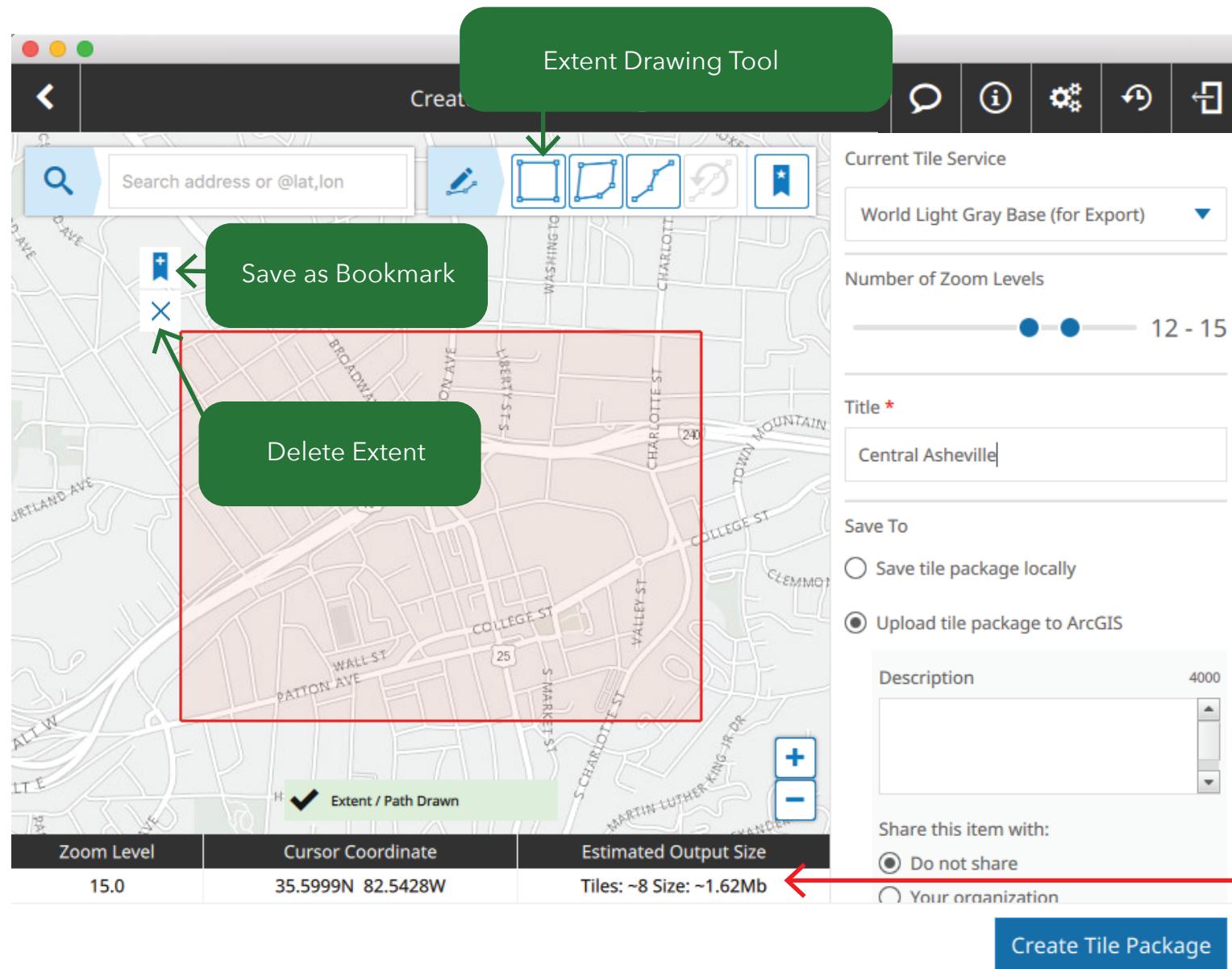
Backspace or delete

To Pan Map While Drawing

Press & Hold Shift + Press and Hold Left Mouse Key while panning map.

CREATE - Using an Extent

Extent Drawing Tool



Search address or @lat,lon

Extent Drawing Tool

Save as Bookmark

Delete Extent

Extent / Path Drawn

Zoom Level: 15.0

Cursor Coordinate: 35.5999N 82.5428W

Estimated Output Size: Tiles: ~8 Size: ~1.62Mb

Current Tile Service: World Light Gray Base (for Export)

Number of Zoom Levels: 12 - 15

Title*: Central Asheville

Save To:

- Save tile package locally
- Upload tile package to ArcGIS

Description: 4000

Share this item with:

- Do not share
- Your organization

Create Tile Package

This is just an estimate. The actual value is calculated via the export service prior to submitting the export request. If the requested tile count exceeds what is allowed, the request will be denied.



CREATE
New Tile Package

CREATE - Using GeoJSON - Drag and Drop

If the geojson contains multiple features, you can cycle through them, or enter the feature number in directly.

Estimated Output Size
Tiles: ~5 Size: ~1.01Mb

Current Tile Service
World Street Map (for Export)

Number of Zoom Levels
0 - 3

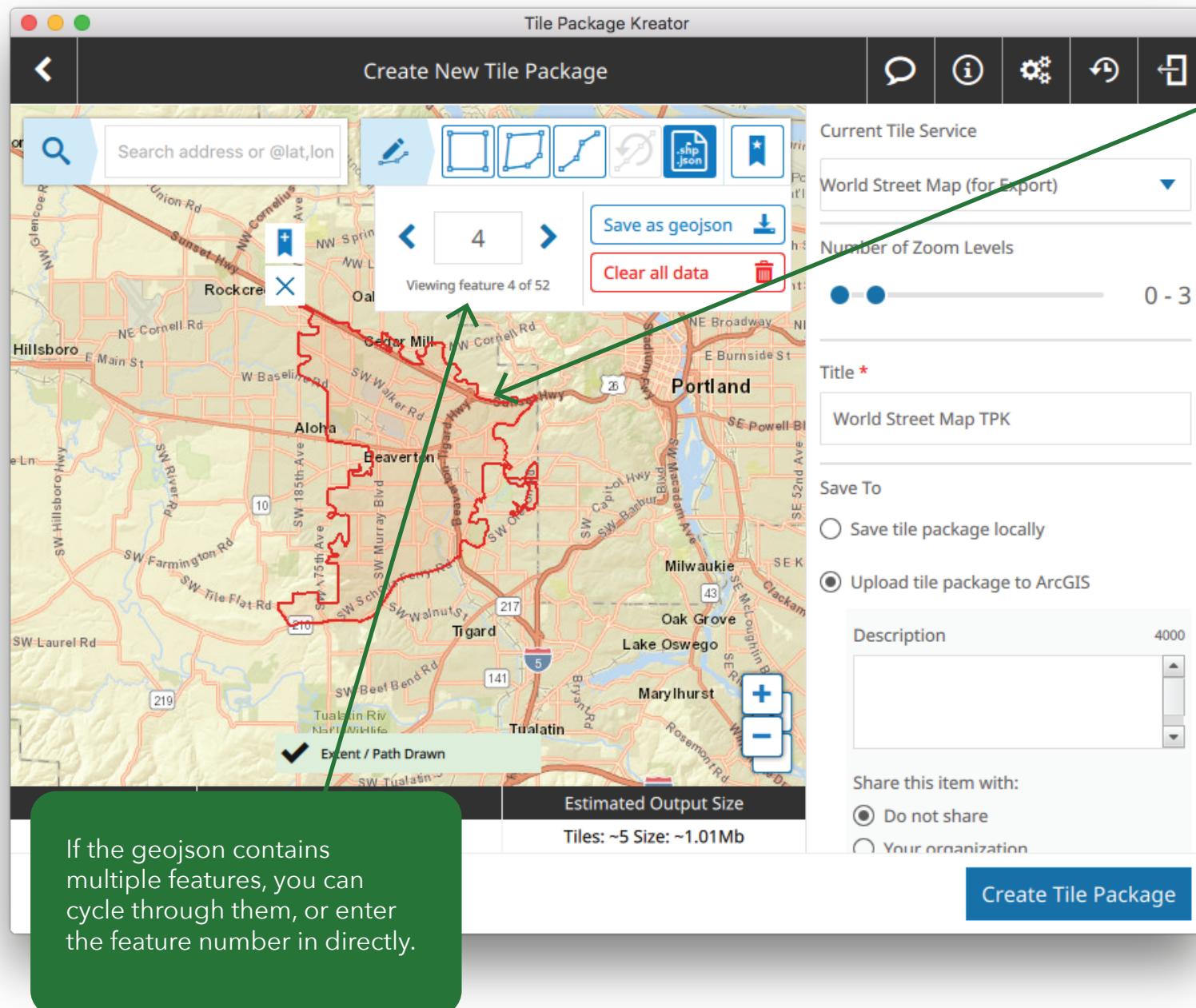
Title *
World Street Map TPK

Save To
 Save tile package locally
 Upload tile package to ArcGIS

Description
4000

Share this item with:
 Do not share
 Your organization

Create Tile Package



The screenshot shows the 'Tile Package Creator' application window. On the left is a map of the Portland, Oregon, area. A red polygon highlights a specific geographic feature. On the right, there's a sidebar titled 'Name' containing a list of files: 'Corporate_Limits', 'City_of_Sioux_Falls_City_Council_Districts.geojson' (which is selected and highlighted in blue), 'Airports.geojson', 'Charlotte_Zoning.geojson', 'Corporate_Limits.zip', and 'US_Congressional_Districts.geojson'. A green arrow points from the 'City_of_Sioux_Falls_City_Council_Districts.geojson' file in the sidebar to the red highlighted polygon on the map. Another green arrow points from the 'Create Tile Package' button at the bottom right back to the sidebar.

Simply drag and drop a .geojson or .json file onto the map.

Format can be geojson or Esri json and must be in one of the following spatial references:

- 3857 (102100)

- 4326



CREATE - Using GeoJSON - Copy and Paste

Tile Package Kreator
Create New Tile Package

Search address or @lat,lon

Viewing feature 3 of 3

Save as geojson

Clear all data

Number of Zoom Levels: 0 - 3

Buffer Radius: 3000 max, [default=1] m

Title *: National Geographic World Map TPK

Save To:

- Save tile package locally
- Upload tile package to ArcGIS

Description: 4000

Create Tile Package

Paste onto map with Ctrl+V (or Cmnd+V)

Control or Command + V

If the geojson contains multiple features, you can cycle through them, or enter the feature number in directly.

```
{  
  "type": "FeatureCollection",  
  "features": [  
    {  
      "type": "Feature",  
      "properties": {},  
      "geometry": {  
        "type": "LineString",  
        "coordinates": [  
          [  
            26.076736450195312,  
            44.478993082591444  
          ],  
          [  
            26.078453063964844,  
            44.47495104782301  
          ],  
          [  
            26.08377456665039,  
            44.473971118440275  
          ],  
          [  
            26.088924407958984,  
            44.47370602701607  
          ]  
        ]  
      }  
    }  
  ]  
}
```

Copy geojson text from any application and then paste onto the map.

Must be in geojson or Esri json format and coordinates must be 3857 or 4326 spatial reference.



CREATE - Using Shapefile - Drag and Drop

If the shapefile contains multiple features, you can cycle through them, or enter the feature number in directly.

Toggle open the shapefile / geojson panel

Save shapefile as .geojson

Delete data from memory

Create New Tile Package

Search address or @lat,lon

16 Viewing feature 16 of 52

Save as geojson

Clear all data

Title * World Street Map TPK

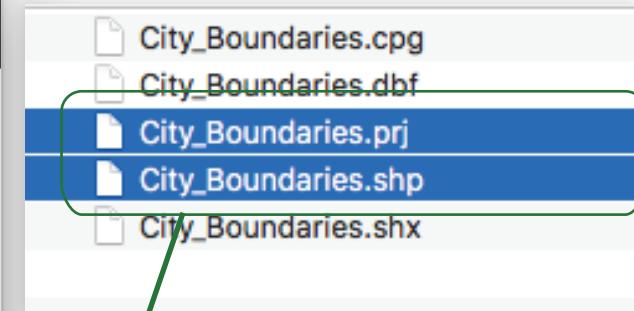
Save To Save tile package locally Upload tile package to ArcGIS

Description 4000

Share this item with: Do not share Your organization

Estimated Output Size
Tiles: ~5 Size: ~1.01Mb

Create Tile Package



Drag and drop the .shp and .prj files.

The .prj file is required to establish the spatial reference, which must be one of the following:

- 3857 (102100)

- 4326

CREATE - Bookmarks



Open Menu of Saved Bookmarks

Load the bookmark to the map

Download the bookmark geometry to a geojson file

Delete the bookmark

Save Bookmark

Add Title & Create

Create Tile Package

Geosearch

Search address or @lat,lon

Enter a title

Cancel Create

Cameroon

Catawba River

Wrightsville Beach, ...

Number of Zoom Levels

12 - 15

Title *

Central Asheville

Save To

Save tile package locally

Upload tile package to ArcGIS

Description

4000

Share this item with:

Do not share

Your organization

Extent / Path Drawn

Zoom Level

15.0

Cursor Coordinate

-- --

Estimated Output Size

Tiles: ~8 Size: ~1.62Mb

A screenshot of the Esri Create interface showing the 'Bookmarks' feature. The top navigation bar includes a 'Create New Tile Package' button, an info icon, settings, and a refresh icon. Below the search bar is a toolbar with icons for Geosearch, Edit, and Bookmarks. A modal window titled 'Enter a title' is open, prompting the user to add a title and click 'Create'. The main map area shows a red polygon drawn over a grayscale base map. In the bottom left, a green box indicates 'Extent / Path Drawn'. The bottom navigation bar displays 'Zoom Level: 15.0', 'Cursor Coordinate: -- --', and 'Estimated Output Size: Tiles: ~8 Size: ~1.62Mb'. On the right, a sidebar for 'Current Tile Service' shows 'World Light Gray Base (for Export)' selected. It also features a 'Number of Zoom Levels' slider set between 12 and 15, and a 'Title' field with 'Central Asheville' entered. Under 'Save To', the 'Upload tile package to ArcGIS' option is selected. A 'Description' field has '4000' typed into it. At the bottom, there's a 'Share this item with:' section where 'Do not share' is selected, and a large blue 'Create Tile Package' button at the bottom right.



CREATE - Exporting Indicators

Tile Package Creator

Create New Tile Package

Estimated Size: 28.76MB, Number of Tiles: 2877

Export Complete.

Download Complete.

Uploading to portal.

Upload tile package to ArcGIS

Description

Charlotte CBD Path tpk, buffered at 1000 meters along the line.

Share this item with:

- Do not share
- Your organization
- Everyone (Public)

Zoom Level Cursor Coordinate Estimated Output Size

15.3 35.2261N 80.8278W Tiles: -- Size: --

Creating

The screenshot shows the "Tile Package Creator" application window titled "Create New Tile Package". It features a map of Charlotte, NC, with various streets labeled. On the left, there's a vertical list of process indicators: "Estimated Size: 28.76MB, Number of Tiles: 2877", "Export Complete.", "Download Complete.", and "Uploading to portal.". Each indicator has a green arrow pointing to a callout box on the right side of the screen. The callout boxes provide detailed descriptions of each step: "Tile Package size according to export tile service", "Cloud exporting process indicator", "Download to local machine process indicator", and "Upload and sharing process indicator (not visible when file is only saved locally)". At the bottom of the window, there's a table with columns for "Zoom Level", "Cursor Coordinate", and "Estimated Output Size", and a progress bar indicating the task is "Creating".

Tile Package size according to export tile service

Cloud exporting process indicator

Download to local machine process indicator

Upload and sharing process indicator
(not visible when file is only saved locally)



CREATE - Export Complete Statuses

Export and upload (and sharing) was successful and link to online item is provided

15.3	35.2261N 80.8278W	Tiles: -- Size: --
------	-------------------	--------------------

Uploaded and Shared. [See Tile Package Item](#)

Create

Export and download to local file was successful. Path to file is displayed

3.0	9.8267N 121.129W	Tiles: -- Size: --
-----	------------------	--------------------

Downloaded to /Users/jaysonward/ArcGIS/My Tile Packages/
usa_897ab69f338c4a46bbef35f41ae244d8.tpk

Create

The requested number of tiles is not allowed. Export was unsuccessful

3.0	36.7642N 48.1796W	Tiles: -- Size: --
-----	-------------------	--------------------

Export Failed. ERROR 001564: Requested tile count exceeds the maximum allowed number
of tiles to be exported.

Create



CREATE - Exported Files

Default Folder Windows: C:\Users\{currentUser}\ArcGIS\My Tile Packages

Default Folder Mac: ~/Users/{currentUser}/ArcGIS/My Tile Packages

Default Folder Linux: ~/home/{currentUser}/ArcGIS/My Tile Packages

filename

The filename is currently created from the default title or user provided title on the export view plus a unique identifier to negate potential naming conflicts locally and on ArcGIS.

.pkinfo

If the tile package is published online, then the local .tpk file will be deleted* and the application will request and save a .pkinfo file in the default My Tile Packages folder. This .pkinfo file can be used with other software.

* The local .tpk is currently not deleted on Windows.

.tpk

If the tile package is only saved locally, then it will be located in the default My Tile Packages folder, or the folder chosen by the user in the export view. A .pkinfo file will not be available for a locally saved .tpk file.

Macintosh HD > Users > jaysonward > ArcGIS > My Tile Packages > manhattan_d971e2cd8b6f4870ba075c4be43fdf53.tpk

UPLOAD - Interface Overview



Tile Package Kreator

Upload Local Tile Package

toronto_ontario_caf28afbace24104ba3ec5abb60c8393.tpk

Web Mercator

Use a different file

Title *

toronto ontario

Description

This is a local tpk of Toronto| 3970

Share this item with:

Do not share

Your organization

Everyone (Public)

Upload Cancel

Checks to see if .tpk file is Web Mercator prior to upload

Default Title extracted from filename, editable. **Required**

Description for online item. **Optional**

Sharing options **Optional**

UPLOAD - Upload Complete Statuses



Upload (and sharing) was successful and link to online item is provided

Upload Complete. [View Online](#)

Uplo

Upload failed. Messages will vary.

In this instance, a .tpk file with the same name already existed online.

Upload Failed. A tpk file with that name already exists.

Upload

BROWSE - Interface Overview



Displays the user's private and shared tile packages from the current organization, as well as tile package files that have been shared by other members of the organization.

A screenshot of the "Tile Package Kreator" application window titled "Browse Organization Tile Packages". The window shows a grid of six tile packages:

- melbzoning2 (Web Mercator, org)
- Toronto, Ontario (Web Mercator, org)
- Haynesville Grey Basemap (Web Mercator, org)
- Haynesville Topography (Web Mercator, org)
- Haynesville Imagery (Web Mercator, org)
- hello (Web Mercator, org)

A context menu is open over the "Haynesville Grey Basemap" item, listing three options: "View Metadata", "Download via Web Browser", and "View on ArcGIS".

View Metadata

Displays a dialog with the tile packages metadata.

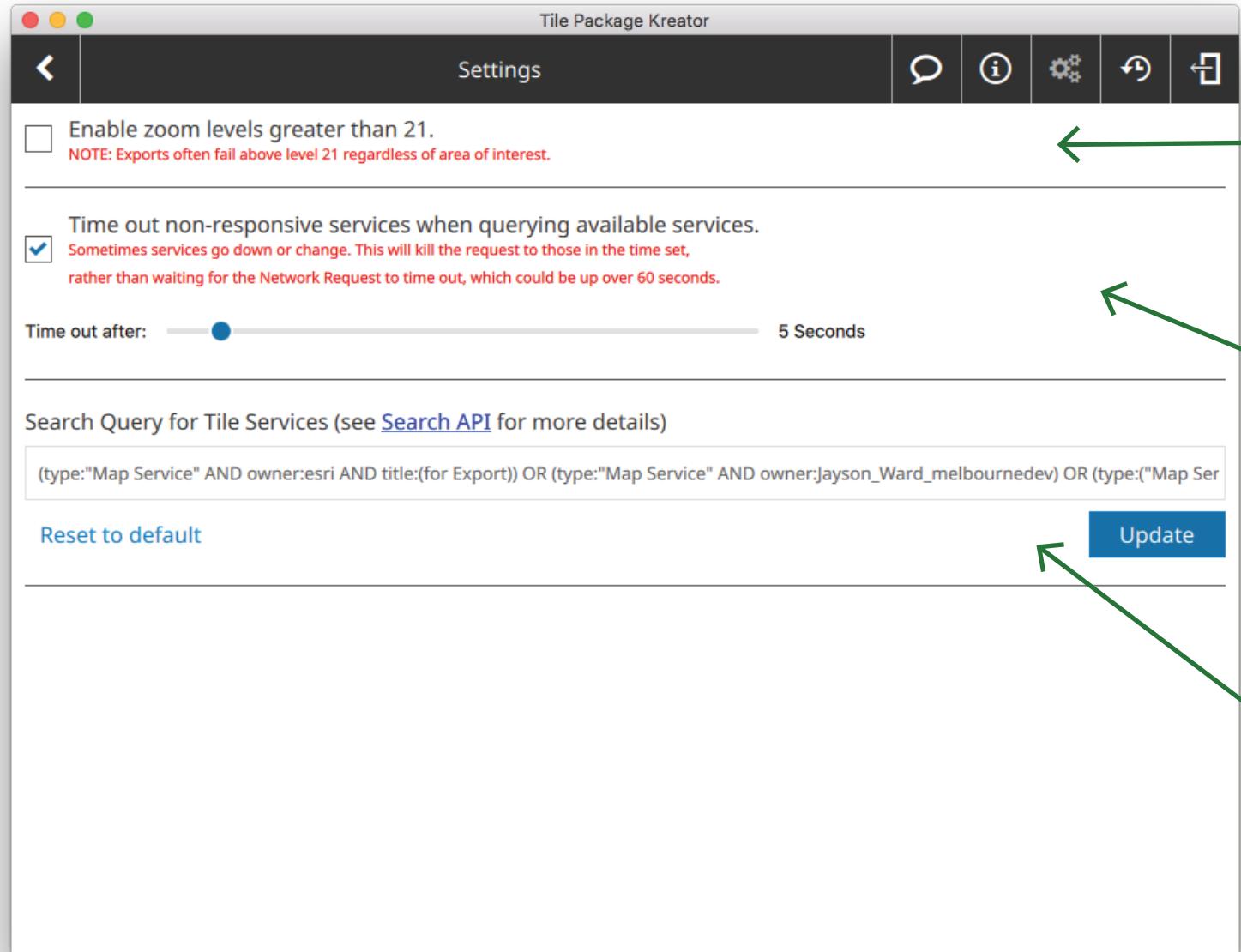
Download via Web Browser

This will open a web browser and download the .tpk file to the local machine using the current signed in token.

View on ArcGIS

This will open a web browser and link to the item's listing on ArcGIS.

SETTINGS - Interface Overview



Enable zoom levels greater than 21. This will allow the export of levels to the maximum the service allows.

Note: These exports often fail.

If you experience the gallery UI stalling, it could be that a service is down or no longer available, but is still listed in your organization.

This will set a timeout on all services, so that the UI doesn't get blocked if a service fails to respond.

If you aren't seeing some services in the available services gallery, you can amend the search query used to find services that support tile exporting.

Note: You can always return to the default query if the entered query becomes corrupted.

HISTORY - Interface Overview

Tile Package Kreator

Export and Upload History

Export History

USA
25 November 2016 2:45:56 PM AEDT

Tile Service
World Street Map (for Export)

Geometry
{"spatialReference":{"wkid":4326,"xmax":-64.878859375,"xmin":-107.417921875,"ymax":53.03375499109526,"ymin":19.008850535702727}
Type: esriGeometryEnvelope

Export Parameters
Levels: 0
Package Size: 0.29
Number of Tiles: 1
Description: No Description

File Information
Local File Path: /Users/jaysonward/ArcGIS/My Tile Packages/
usa_897ab69f338c4a46bbef35f41ae244d8.tpk

Upload History

25 November 2016 3:27:45 PM AEDT
Title: toronto omntario
Description:
[Published ArcGIS Service Link](#)

25 November 2016 1:24:23 PM AEDT
Title: Charlotte Path
Description: Charlotte CBD Path tpk, buffered at 1000 meters along the line.
[Published ArcGIS Service Link](#)

25 November 2016 11:10:24 AM AEDT
Title: Manhattan NYC
Description: Tile Package of central Manhattan
[Published ArcGIS Service Link](#)

25 November 2016 11:07:20 AM AEDT
Title: Toronto, Ontario
Description: Toronto, Ontario Tile Package
[Published ArcGIS Service Link](#)

Delete History

Delete History

Upload History

Provides details of each successful upload request along with a link to the online item.

Export History

Provides details of each successful export request. Download link to exported file is provided.
[NOTE: links expire]