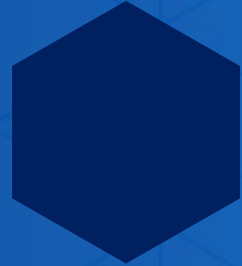


Esri UK Annual Conference 2016

Gaining Insight: A beginners guide to the ArcGIS Online analysis tools

Robin Appleby & Catherine Marshall

Session Aims



Overview of
Analysis
Tools

Demo
Scenarios



Tips
and
Tricks



Where to get
more info



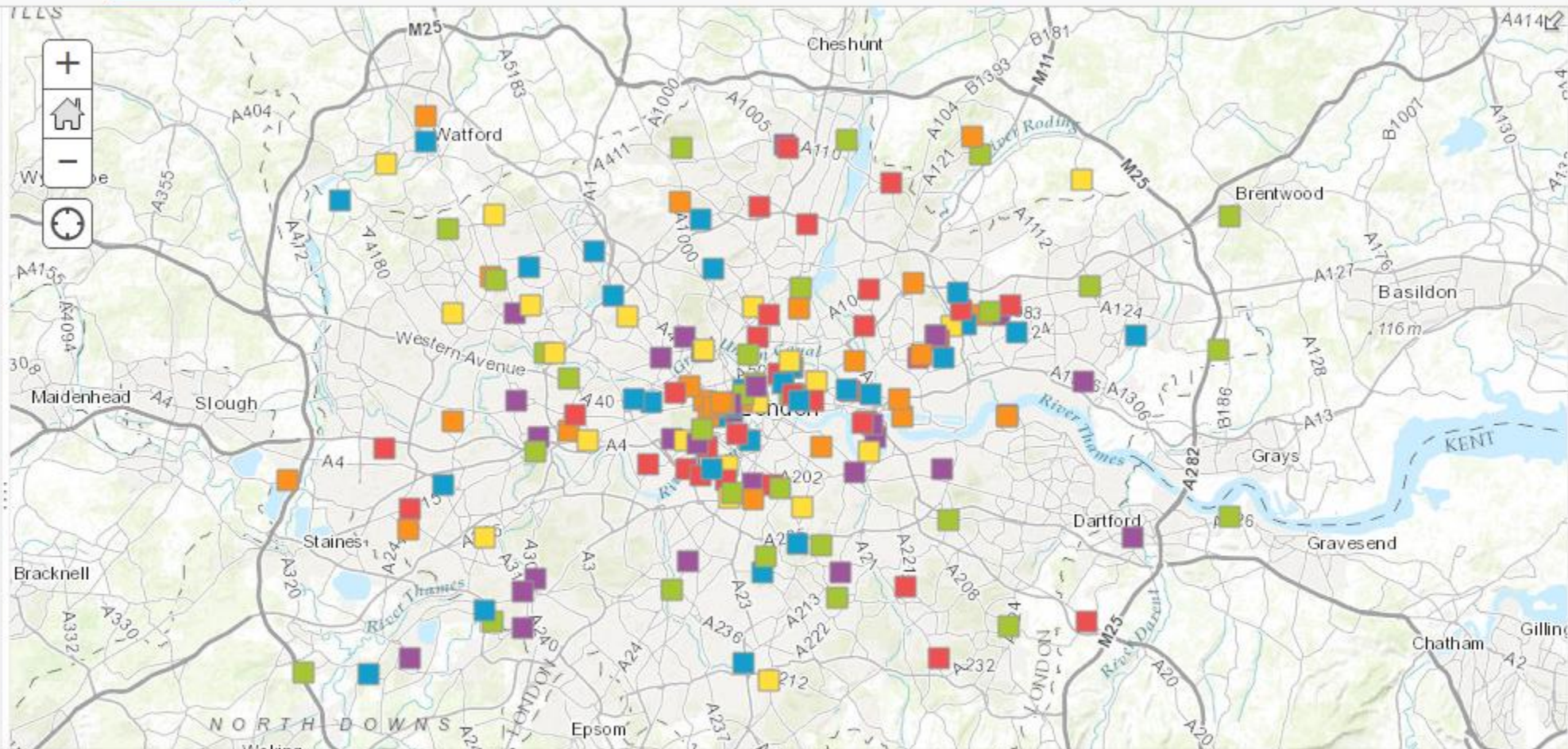
Details Add ▾ | Edit Basemap Analysis Save ▾ Share Directions Measure Bookmarks

Perform Analysis

▼ Summarize Data

- Aggregate Points
- Summarize Nearby
- Summarize Within

- Find Locations
- Data Enrichment
- Analyze Patterns
- Use Proximity
- Manage Data



ArcGIS Online AND Portal for ArcGIS (10.4)



Summarise Data

- Aggregate Points
- Summarise Nearby
- Summarise Within



Analyse Patterns

- Calculate Density
- Find Hot Spots
- Interpolate Points



Find Locations

- Find Existing Locations
- Derive New Locations
- Find Similar Locations
- Choose Best Facilities
- Create Viewshed
- Create Watersheds
- Trace Downstream



Use Proximity

- Create Buffers
- Create Drive-Time Areas
- Find Nearest
- Plan Routes
- Connect Origins to Destinations



Data Enrichment

- Enrich Layer



Manage Data

- Dissolve Boundaries
- Extract Data
- Merge Layers
- Overlay Layers



Credits

1 Credit = 8.5 pence

- MOST analysis tools use 1 credit per 1000 features

Function	1 Credit per...
Drivetimes	2 drivetimes
Route planning	1 route
Enrichment	100 data variables (e.g. 10 values for 10 records)
Geocoding	25 records

- All ArcGIS Online plans include credits
- Portal for ArcGIS does not require credits
- Credits can be restricted by user

Neighbourhood Crime Analysis Scenario

- What crimes are most prevalent in each of my neighbourhoods?
- What preventative measures should I adopt and where?



Property Analysis Scenario

- Where should I recommend a high-end Chinese Take-away open their next restaurant?



Tips and Tricks

- Default behaviour is to limit analysis to map extent
- Manage your output files
- Check credit usage before performing analysis
- Provide analysis tools via Web App Builder App
- Make use of Living Atlas layers

4 Output file name i

Extract Data April 27 2016, 4.42.26 PM

Save result in

Use current map extent [Show credits](#)

RUN ANALYSIS

Choose Living Atlas Analysis Layer ×

Add layer to map
 Within map area

Hexbins

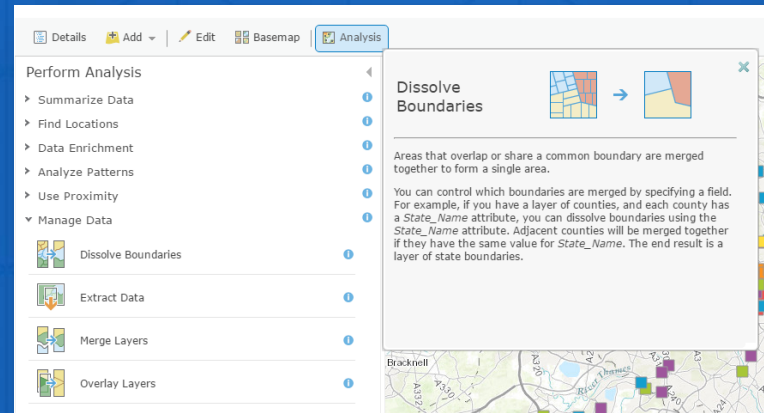
Global Hexbins 50km Global Hexbins 500km Global Hexbins 250km

Global Hexbins 100km Global Hexbins 1000km Europe Hexbins 25km

< 1 2 >

Where to find more information

- Analysis Tools – Pop-up Help



- ArcGIS Online Help

Perform Analysis Overview

<http://doc.arcgis.com/en/arcgis-online/use-maps/perform-analysis.htm>

- Free Training

Spatial Analysis with ArcGIS Online

<http://training.esri.com/gateway/index.cfm?fa=catalog.webCourseDetail&courseid=2793>

- Crime Data

<https://data.police.uk/data/>

- What uses credits?

<http://www.esri.com/software/arcgis/arcgisonline/credits>

- Using the Analysis widget in Web App Builder

<https://doc.arcgis.com/en/web-appbuilder/create-apps/widget-analysis.htm>



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