



#### **AGENDA**

Help the FME Lizard find a new office!

- Mission 1:
  - Find how many FME Users are in each city
- Mission 2:
  - Find which city is warm and dry
- Mission 3:
  - Find which city has the most vegetation
- Mission 4:
  - Find Zipster
- Choose the office Demo
- FME Highlights



#### The FME Lizard is on the Move!

But where should its next office be?

FME to the Rescue!

Let's build a workspace to help the FME Lizard find a new office. (Caveat: the FME Lizard is picky and has very specific needs.)

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### **FME Lizard's New Office: Location Selection Criteria**

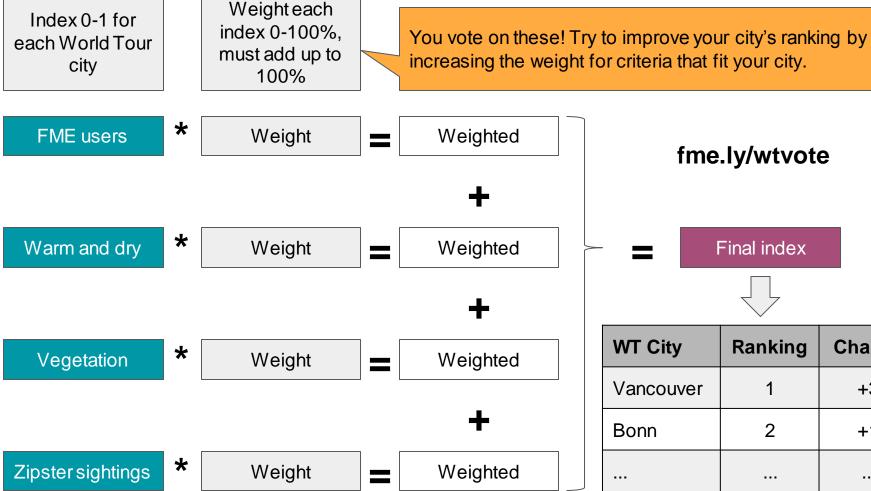
- 1. FME Lizard likes FME users and wants them nearby.
- 2. Warm and dry.
- 3. Fresh supply of vegetation.
- 4. FME Zipster sightings.







- Generate index ranking all FME World Tour cities.
- You can game the system by assigning a weight to the indexes.
- Vote at <u>fme.ly/wtvote</u> now!



#### fme.ly/wtvote



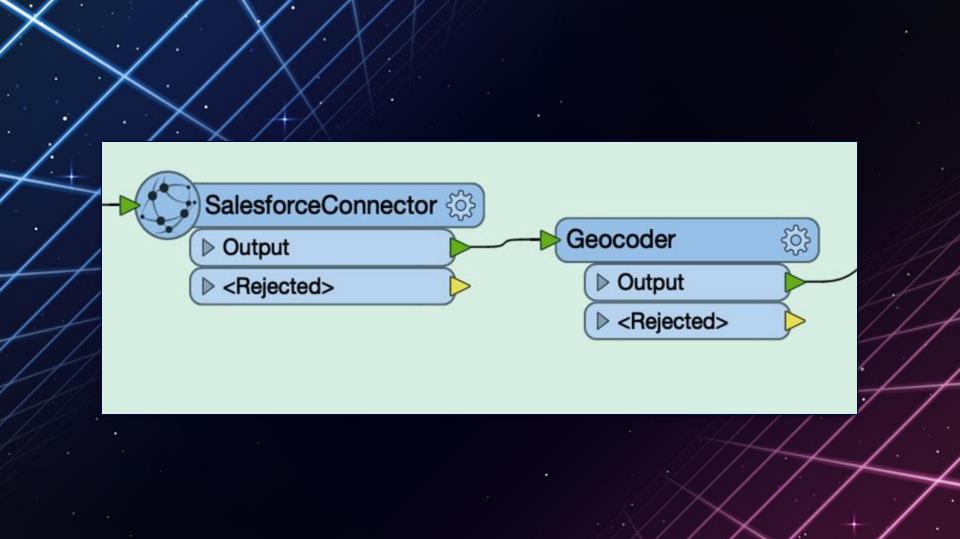


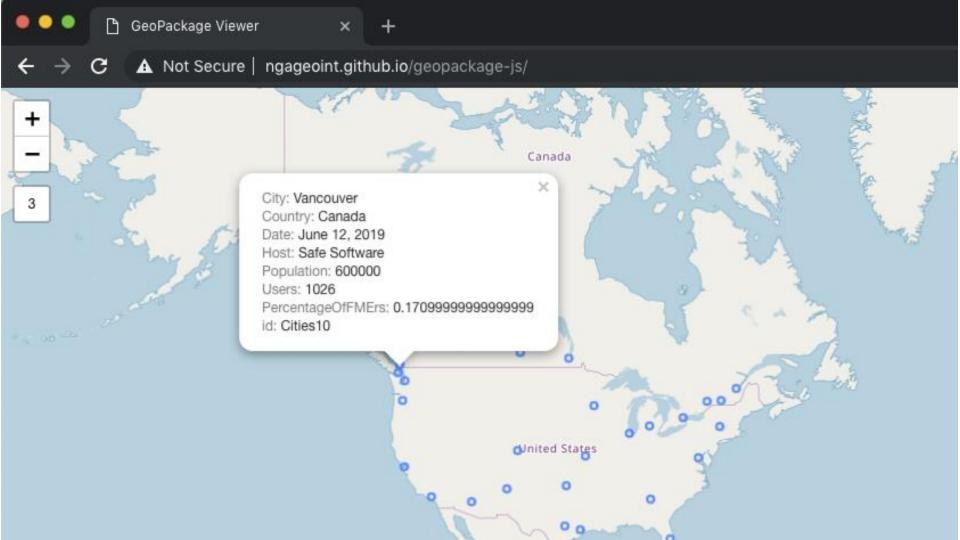
WT City	Ranking	Change
Vancouver	1	+3
Bonn	2	+1

### Mission 1

How many FME Users are in each city?



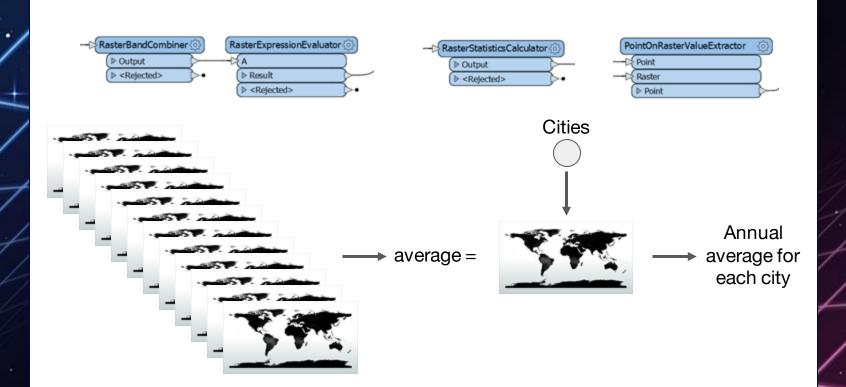






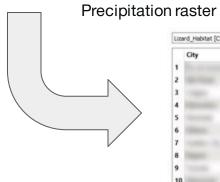


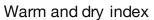
Fick, S. E., & Hijmans, R. J. (2017). WorldClim 2: new 1-km spatial resolution climate surfaces for global land areas. *International Journal of Climatology*, 37(12), 4302-4315.



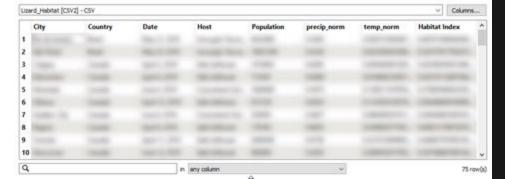








Temperature raster

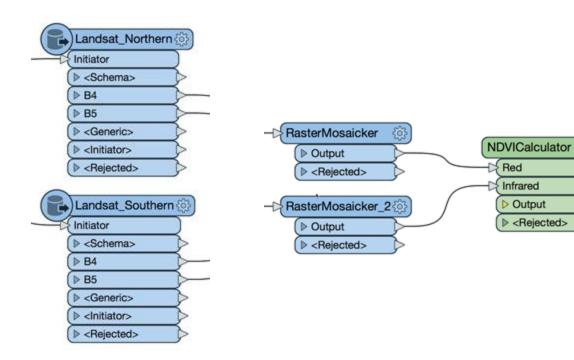


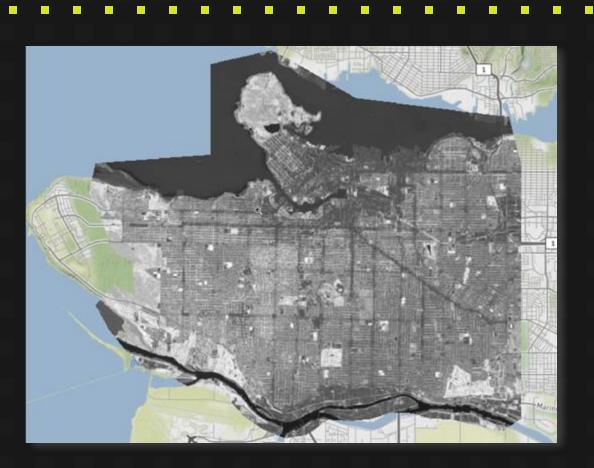


### Mission 3

What city has lots of vegetation?





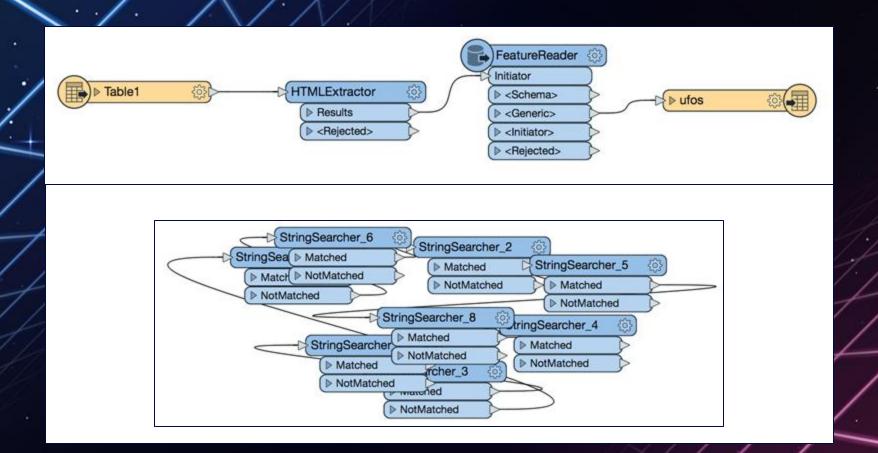




### Mission 4

Where is Zipster?















### **Demo Recap**

- Integrated multiple sources
- Transformation tips and tricks:
  - Feature Caching and PartialRuns
  - Visual Preview
  - Bookmarks and Annotations
  - Database and Web Connections
  - FeatureReader andFeatureWriter
- Displayed data in a friendly way





#### **Performance**

"EVERY FME RELEASE WILL BE **FASTER THAN THE PREVIOUS** OR WE WON'T SHIP IT!"

Dale Lutz / Don Murray 2018+

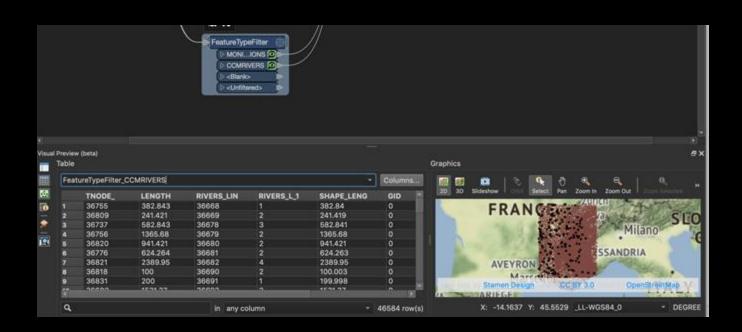


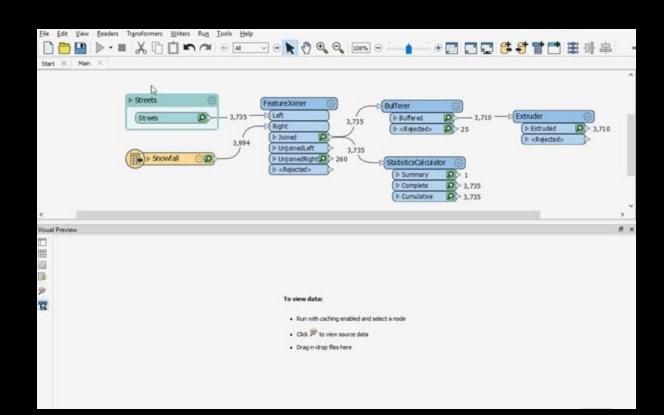




### FME 2019: The Interface

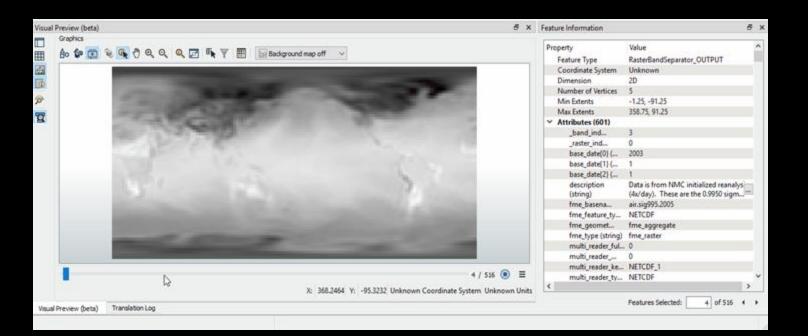
### **Dark Mode**



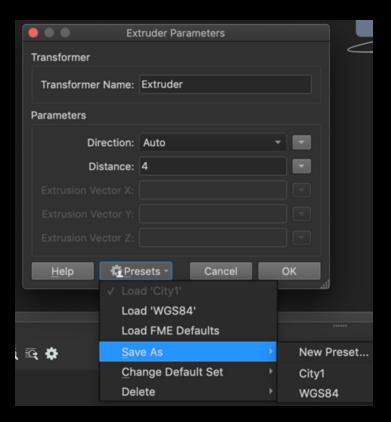


### **Visual Preview**

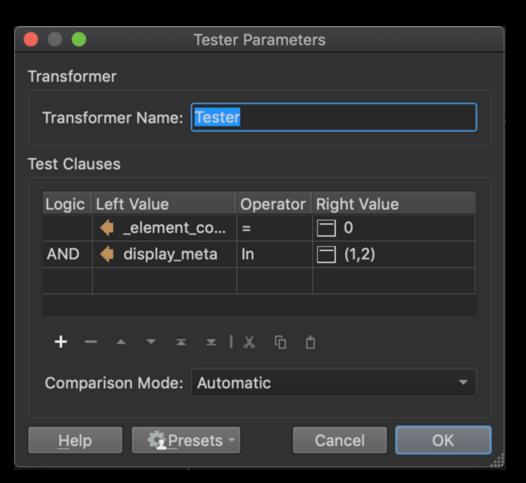
### **Animate Mode**



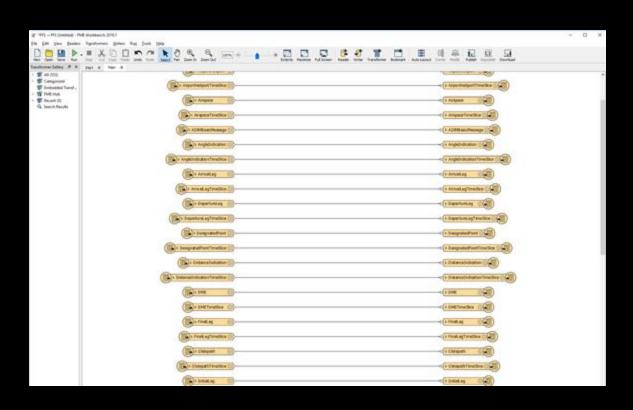
### Save Parameter **Presets**



## **Tester** transformer



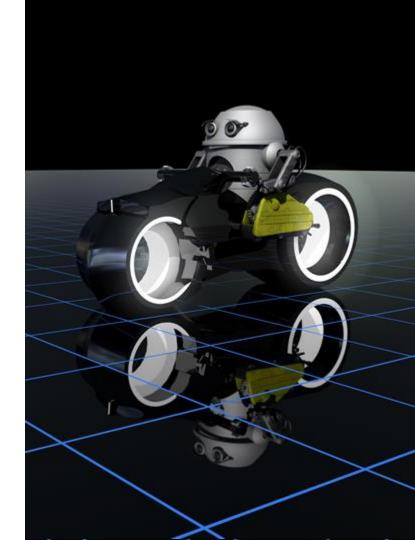
### **Auto-sized Transformers & Feature Types**



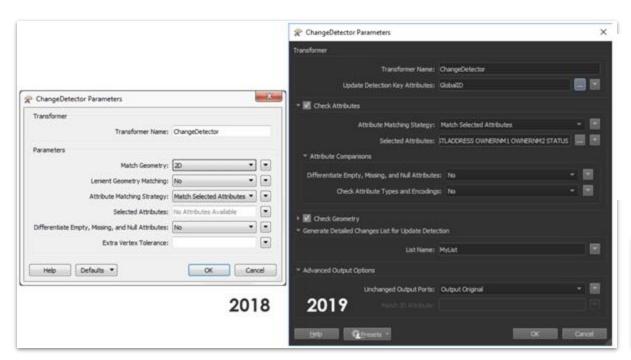
# New in 2019

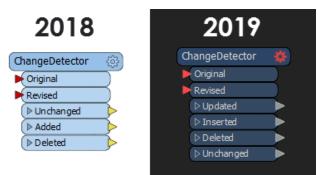
### **More New Format Support**

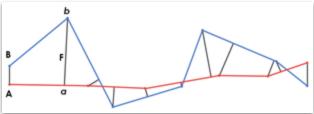
- Azure Storage Connectors
- Cesium Ion Connector
- Cityworks Connector
- Compressed File Reading (.rar/.gz/.tgz/.zipx)
- DGN Meshes
- Digital Weather Markup Language (DWML) Reader
- FME Augmented Reality (AR) Reader
- Garmin POI Reader/Writer
- Google Storage Connectors
- OGC Web Coverage Service (WCS) Reader
- TopoJSON Writer



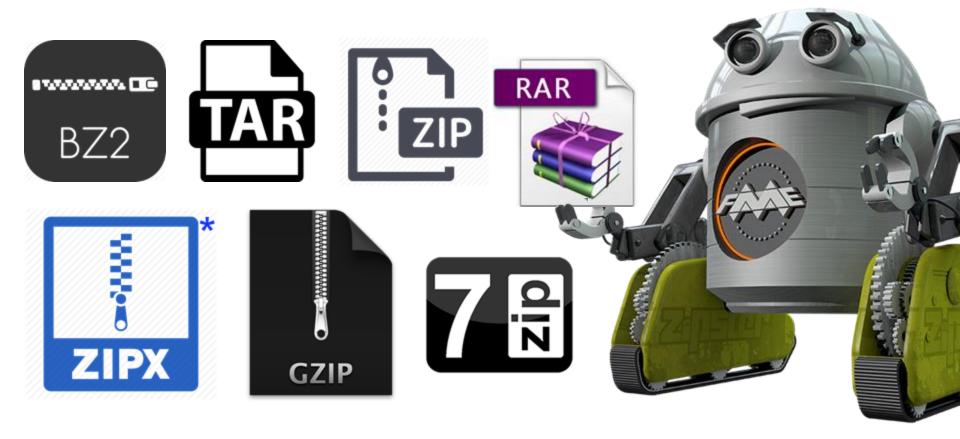
### ChangeDetector



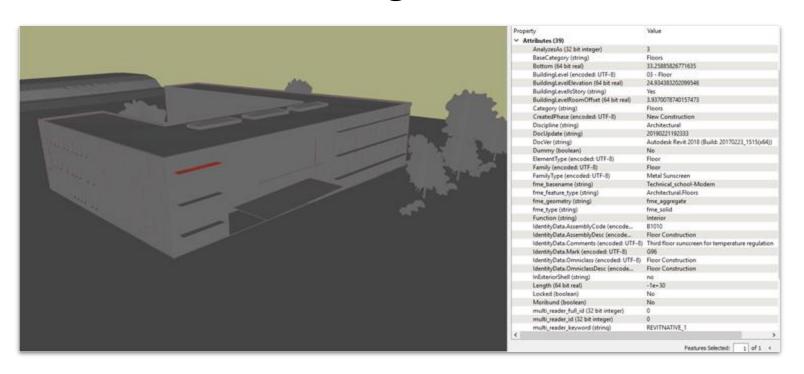




### **Decompression**



### **Native Revit Reading**



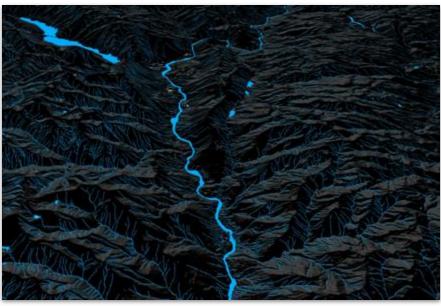
### **DGN Mesh Reading**





### Esri i3s





TopoJSON DWML (R) <u>Socrata</u> (New API) OGC WCS (R) Garmin POI Binary® FME AR (R)

#### **New Connectors**

- AzureBlobStorageConnector
- AzureFileStorageConnector
- CesiumIonConnector
- CityworksConnector
- GoogleCloudStorageConnector
- S3Connector
- AzureQueueStorageConnector (coming soon)
- KafkaConnector (coming soon)
- TrelloConnector (coming soon)

















### **FME Packages**

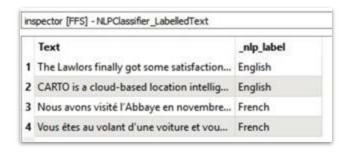
Delivering transformers, reader/writers, and connections to you *faster*.

- Zipped .fpkg files available via <u>FME Hub</u>.
- Get fixes and new features into your hands within hours, not months.
- Developers can contribute their own content to FME.
- Currently released as FME Packages:
  - S3Connector
  - CesiumIonConnector
  - RasterObjectDetector series
  - NLP series



### **New Machine Learning Transformers**

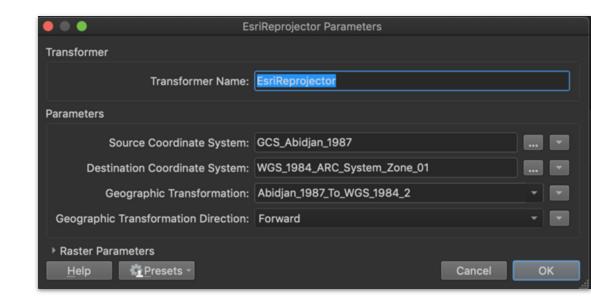
- RasterObjectDetector
- RasterObjectDetectorTrainer
- NaturalLanguageProcessor





### EsriReprojector

- Not new, but rewritten to not use ArcObjects
- Bundled on all platforms
- Does not need ArcGIS installed



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