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Leveraging Image Services with the ArcGIS Web APIs

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Demo

- **WebMap: Background, Visual Analysis, Catalog, search, discover**
- **Classification: Derive land cover categories interactively.**
- **Avalanche Analysis: Perform risk analysis with local function chains**
- **Elevation profile: Exercising sampling API.**

Esri Image Services

- **World Landsat Services**

- **World Elevation Services**

- **Multiple terrabytes**

- **Multiple data sources**

- **Dynamic mosaicking and processing on a per request basis**

Tips

- Use Tiled layer for fast display, use dynamic access for query, identify, getsamples, measure, analysis etc.
- Static data: CacheControlMaxAge (use admin endpoint)
e.g. {"CacheControlMaxAge":"43200"}

Tips

- Take advantage of REST API parameters:
 - Filtering using mosaic rule's where clause for sampling/identify
 - Use mosaic rule to control display order (best on top)
 - Identify: returnCatalogItems, returnGeometry
 - GetSamples: returnFirstValueOnly
 - Query: leverage returnDistinctValues, outStatistics, orderByFields (10.2.1)

Tips

- Extending image server REST APIs
 - Custom Raster Functions
 - Image Service REST SOEs



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