Road Ahead - Imagery

Peter Becker
ArcGIS Online – Imagery

Imagery

Landsat Services

World Elevation Services
Making Imagery Easier to Use
Raster Products

Simplifying Adding Imagery
Raster Products

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Raster Products

Simplifying Adding Imagery
Improved Metadata

Standardizing how Metadata is Extracted and Accessible
Image Enhancement

Automated Determination of Optimum Color
Image Enhancement

Automated Determination of Optimum Color
Image Enhancement

Interactive Stretch
Color Correction Improvements

Color Balance Collections of Imagery
Seamline Generation

Hide Transitions Between Images
Seamline Generation

Hide Transitions Between Images
Seamline Generation

Hide Transitions Between Images
More Information From Imagery
Mensuration

Measure Height Information Directly From Imagery

- Base to Top, Base to Shadow, Top to Shadow
  - Includes Accuracy Estimate
  - Also Accessible via REST
  - Optional Classified Version
Mensuration

Measure Height Information Directly From Imagery

Imagery courtesy GeoEye
Mensuration

Measure Height Information Directly From Imagery

Imagery courtesy Pictometry
More Data Sources
More Formats & Raster Types

• 16 Additional Formats
  - Inc: MrSID MG4, GXF, DOQ2, PCI.aux, TerraSAR-X

• Improved Raster Types
  - SPOT 5
  - RadarSAT 2
  - Landsat
  - ...

• CSM Support
Full Motion Video Integration

Connect to Live and Archived Georeferenced Feeds
Categorical Data

Support Categorical Data in Mosaic Datasets and Image Services

- GRID, VAT
- Raster + DBF
Lidar (LAS)

Direct Management, Dissemination, Visualization & Analysis

• LAS Dataset
  - Collection of LAS files + Constraints
  - As: Point, Surface, Raster

• Mosaic Dataset
  - Catalog of
    - LAS, LAS Dataset, Terrain, Rasters
    - + Functions & Metadata
  - Directly use or Serve as Image Service
  - As: Raster, Catalog, Download LAS
Lidar (LAS)

Direct Management, Dissemination, Visualization & Analysis
Lidar (LAS)

Direct Management, Dissemination, Visualization & Analysis

Local Project
LAS files

Constraints

LAS Dataset

Mosaic Dataset
Lidar (LAS)

Direct Management, Dissemination, Visualization & Analysis
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Direct Management, Dissemination, Visualization & Analysis

Local Project LAS files

Constraints

Huge Collections

Managed Terrains

LAS Dataset

Mosaic Dataset
Lidar (LAS)

Direct Management, Dissemination, Visualization & Analysis

- Local Project LAS files
- Constraints
- Huge Collections
- Managed Terrains
- Elevation Rasters

LAS Dataset

Mosaic Dataset
Lidar (LAS)

Direct Management, Dissemination, Visualization & Analysis

- Local Project LAS files
- Constraints
- Huge Collections
- Managed Terrains
- Elevation Rasters
- LAS Dataset
- Mosaic Dataset
- Image Service
- Raster Visualization
Lidar (LAS)

Direct Management, Dissemination, Visualization & Analysis

Local Project
LAS files

Constraints

Huge Collections

Managed Terrains

Elevation Rasters

LAS Dataset

Mosaic Dataset

Image Service + GeoProcessing Services

Raster Visualization & Analysis

ManagedTerrains
Lidar (LAS)

Direct Management, Dissemination, Visualization & Analysis

Local Project
LAS files

Constraints

Huge Collections

Managed Terrains

Elevation Rasters

LAS Dataset

Mosaic Dataset

Image Service + GeoProcessing Services

Download for Local Analysis

Raster Visualization & Analysis
Lidar (LAS)

Direct Management, Dissemination, Visualization & Analysis
Improved Tools
Improved Georeferencing

Quickly and Accurately Align Imagery

• Improved User Interface
• Dual Monitor Mode
• Increased Accuracy – Image Space
• Additional Transforms
Improved Georeferencing

Quickly and Accurately Align Imagery
Additional Raster Functions

Extending On-The-Fly - Pull Based Image Processing

Developers Continue to Extend Custom Functions
Function Editor

Change Functions, Individually or in Batch
Improved Management
Analyzers
Evaluate and Optimize

- Mosaic Dataset Analyzer
- Image Service Analyzer
Automation Improvements

- Additional GPTools
  - Set Parameters
  - ....

- Enhanced Synchronization
Improved Serving
Improved Serving

- Simplified Serving Experience
- Scalability Improvements
- Image Service Caching
- Server Side Functions
- Image Service Editing
- Extended REST
Questions?

Please provide feedback for this workshop:

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