



Validating Machine Learning models visually with Zegami

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Zegami makes information more visual and accessible, enabling intuitive exploration, search and discovery.

We combine the power of machine learning and human pattern recognition to reveal hidden insights and new perspectives

Use Cases

- High Content Screening
- High Throughput Phenotyping
- Building ground truth data sets
- Validating ML models
- General analytics

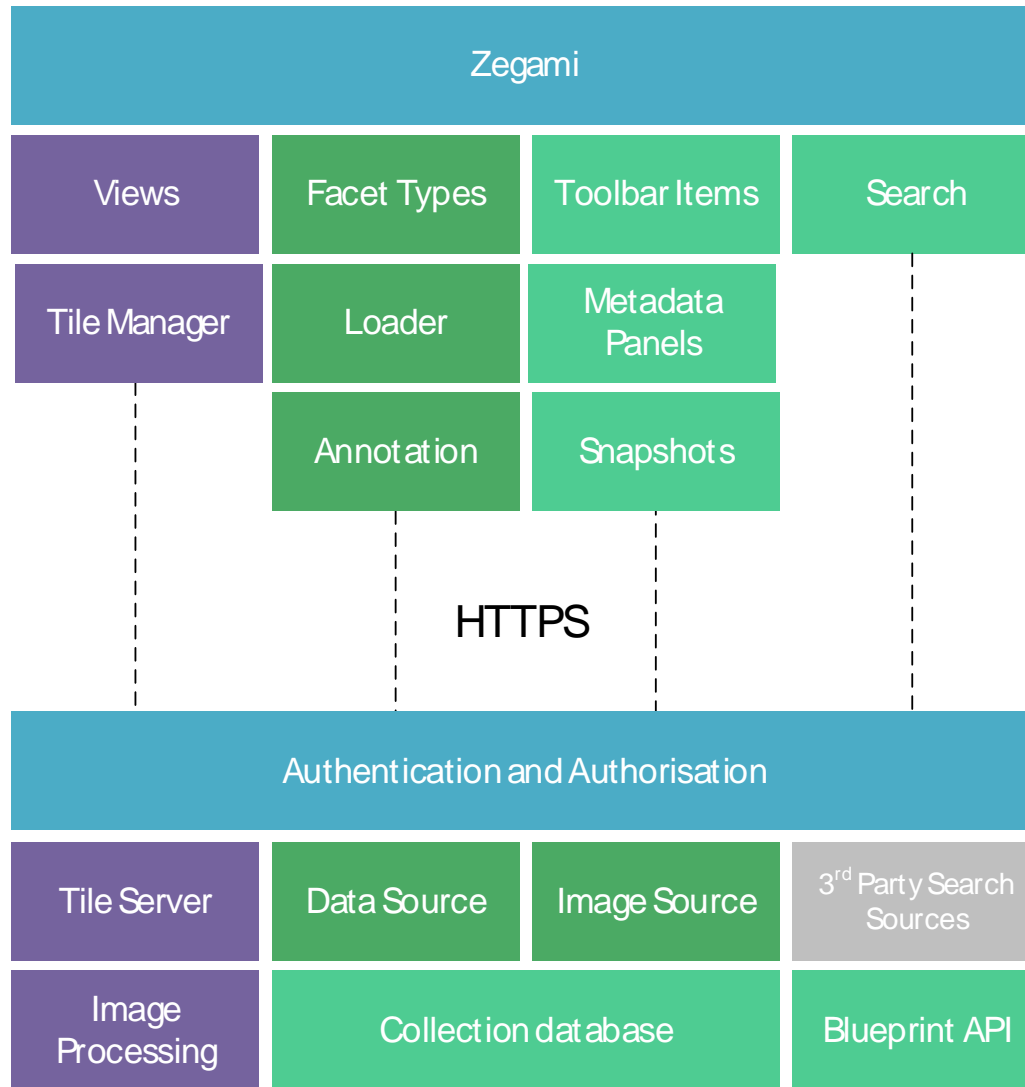
Demo

<https://demo.zegami.com>



Zegami Overview

- Intuitive way to look at large collections of images and data
- Transition from “Close” vs “Distant” reading
- Publishing platform
- API to allow for novel techniques including:
 - Machine learning
 - Image processing
 - Visualisation



Machine Learning Challenges

- Data quality issues
- Understanding data
- Creating ground truth data sets
- Comparison of ML models
- Identifying incorrect classification

Example: unsupervised machine learning

Platform for anyone to integrate into their own Machine Learning pipelines.

- Comparison of various pre-trained models
- Extract features
- Dimensionality Reduction
 - PCA
 - t-SNE

Summary

- Unique visualisation tool for large collections of data points
- Easily integrates into existing ML pipelines
- Many uses outside of ML
 - Sports analytics
 - Digital cultural heritage

Thank You

<https://www.zegami.com>

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