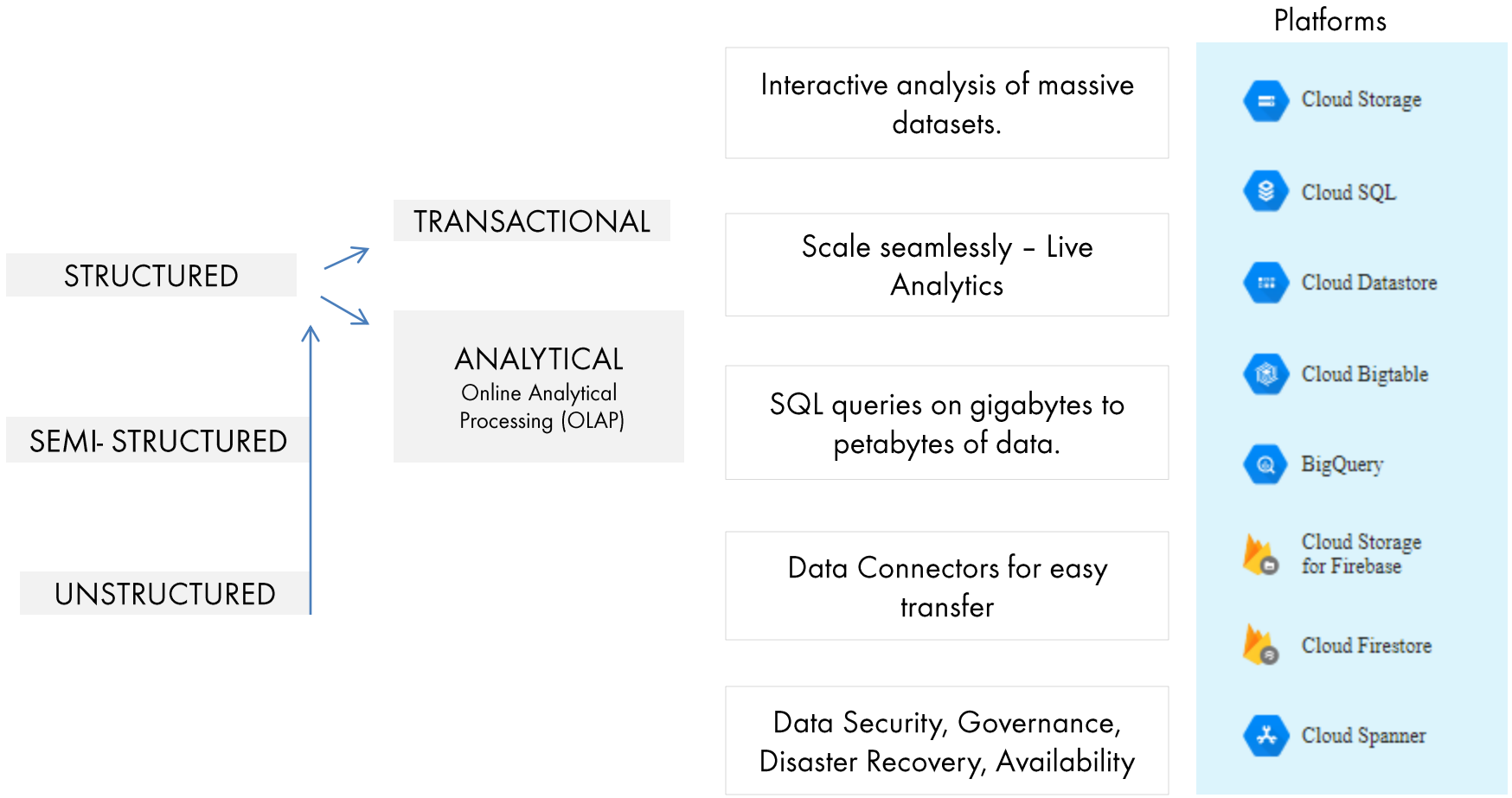


- ### Platforms
- App Engine
 - Compute Engine
 - Kubernetes Engine
 - Cloud Pub/Sub
 - Stackdriver Logging
 - Cloud Transfer Service
 - Transfer Appliance





PROCESS

Cleansed, Normalized, large amounts of Data Sets and Process to store in analytical ready systems.

High-throughput genomics data is produced by technologies that could embed technical biases into the data.

ANALYSIS

Processed data is stored in systems for querying and exploration.

PROCESS FOR DEEPER INSIGHTS
Process large amounts of data to make scientific discoveries and predictions, such as genomics

Platforms

- Cloud Dataflow
- Cloud Dataproc
- BigQuery
- Cloud ML
- Cloud Vision API
- Cloud Speech API
- Translate API
- Cloud Natural Language API
- Cloud Dataprep



INGEST
Raw Data



STORE
Accessible, Secure



PROCESS
Actionable



VISUALIZE
Insights

Data Science Division

Deriving Value From
Data Assets

Delivered by Data scientists and Business analysts, with deep skill sets in probability, statistics, and understanding of business value.

Machine Learning,
Statistical Methods

EXPLORE

VISUALIZE

Aggregation and analysis of multiple data sets.

Clustering, Bayesian, Regression - Statistical, Decision trees and many more modeling techniques.

Predictive Modeling

Predict disease status of the patients from expression of genes measured from their tissue samples.

Complex data visualizations, dashboards, and reports to explain the results of the processed data.

Platforms

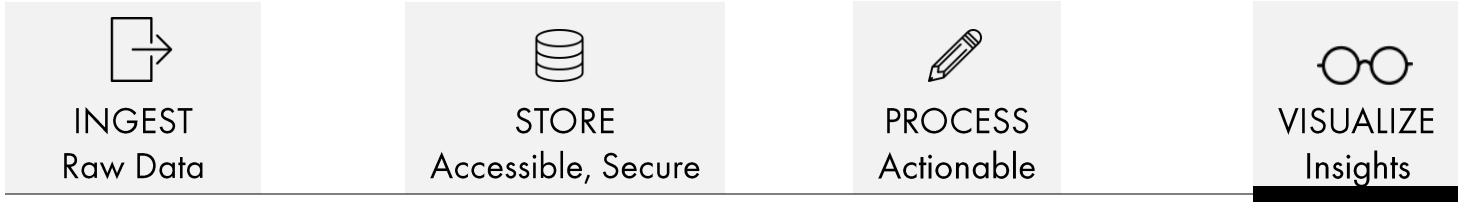


Cloud Datalab



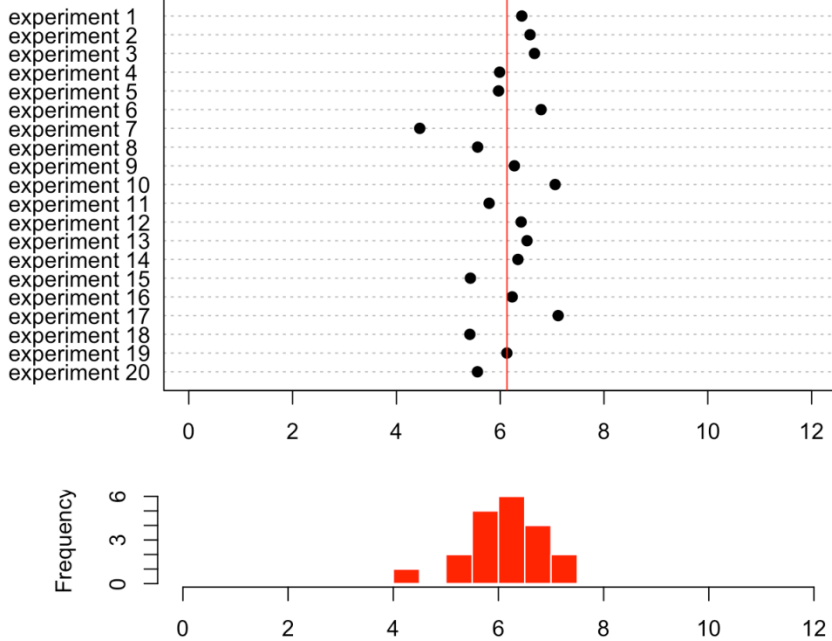
Google Data Studio



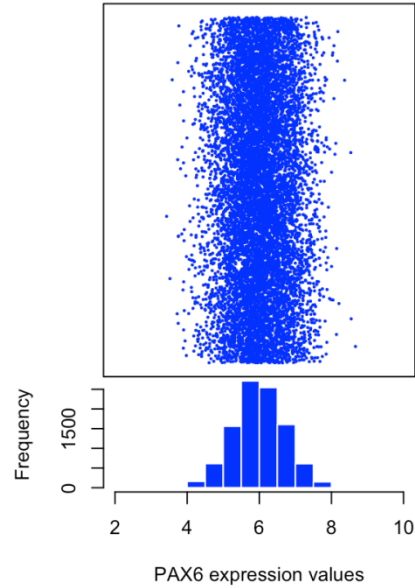


Understanding Statistical Distribution, Divergence/Mean/Medium. PAX6 Gene: Plays an important role in the formation of tissues and organs during embryonic stages.

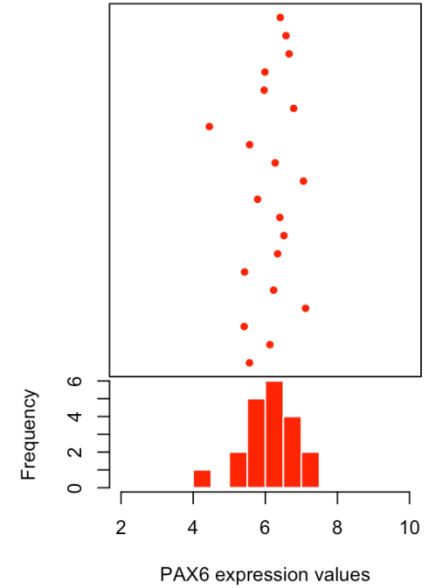
PAX6 expression



Population



Sample





INGEST
Raw Data



STORE
Accessible, Secure

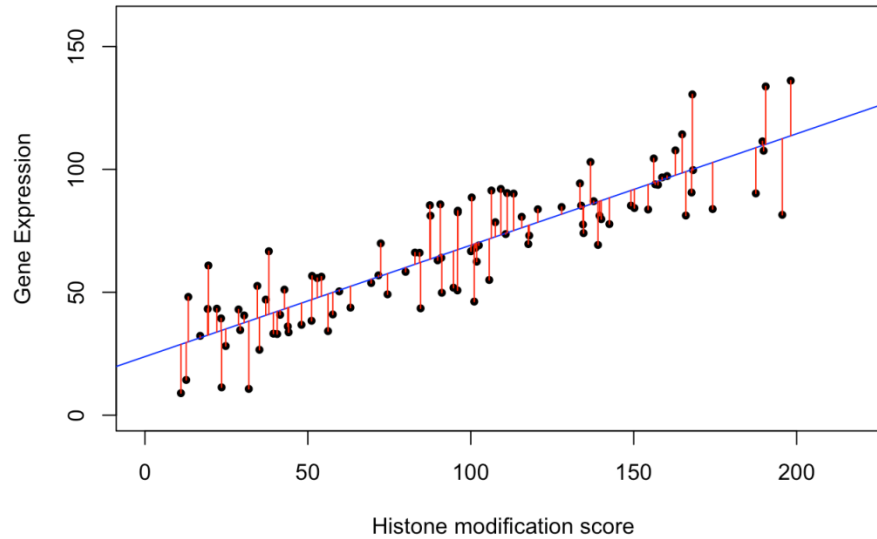


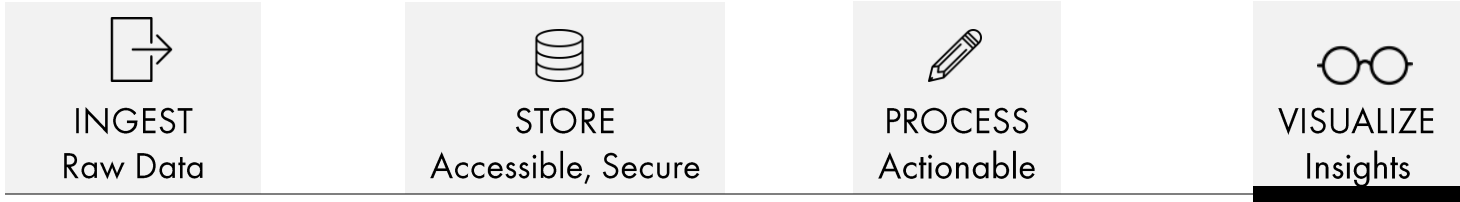
PROCESS
Actionable



VISUALIZE
Insights

Relationship between histone modification and gene expression.





Clustering: Gene expression to classify leukemia type

