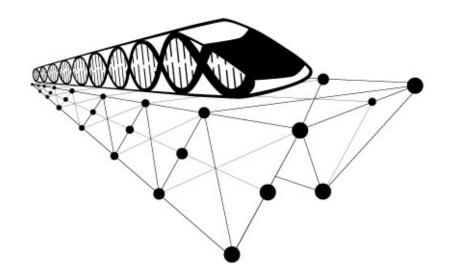


(PRONOUNCED "KNOWING")





Knowledge Engine for Genomics

Jing Ge

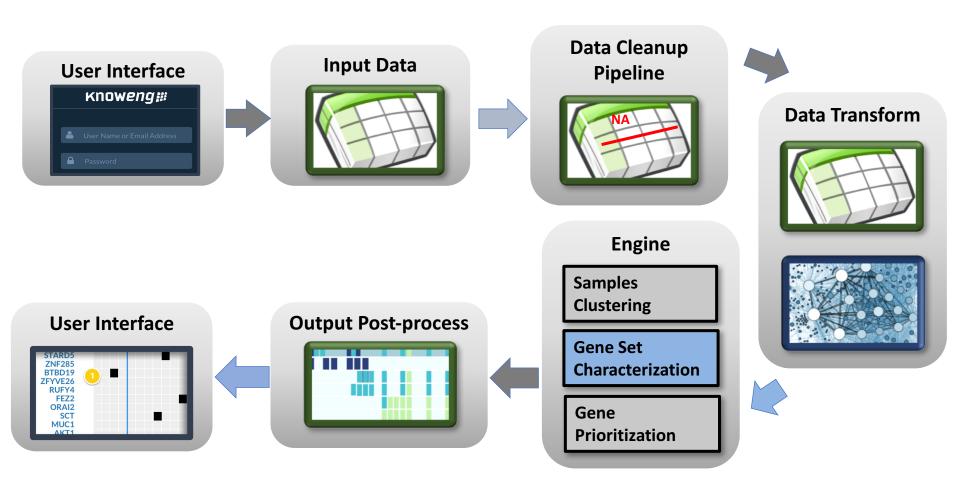
Research Programmer

National Center for Supercomputing

Applications

System Infrastructure

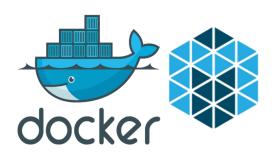




System Infrastructure



- We encapsulated each analysis task in **Docker** containers for easy execution
- Whose execution is orchestrated by the Chronos job scheduling framework
- On a compute cluster managed by Apache Mesos
- That syncs user and community data through
 AWS S3



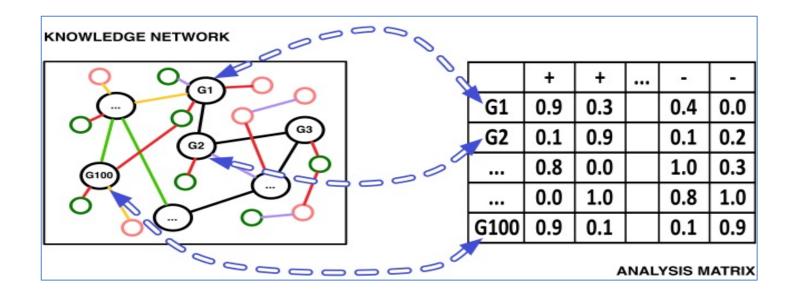




Knowledge Network



- Knowledge network: a heterogeneous graph whose nodes and edges represent genes/proteins, their properties and relationships.
- We want knowledge network to guide the pipeline





Thank you!

