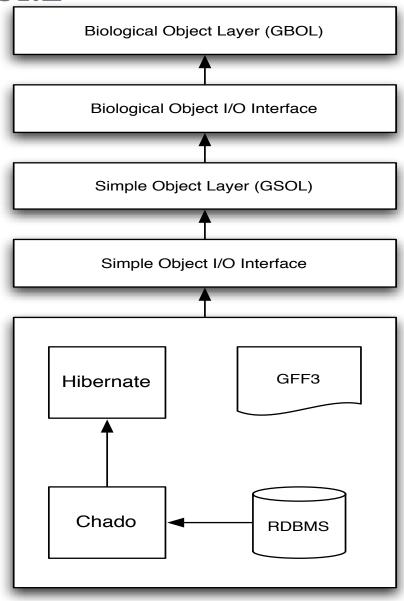
GMOD BIOLOGICAL OBJECT LAYER

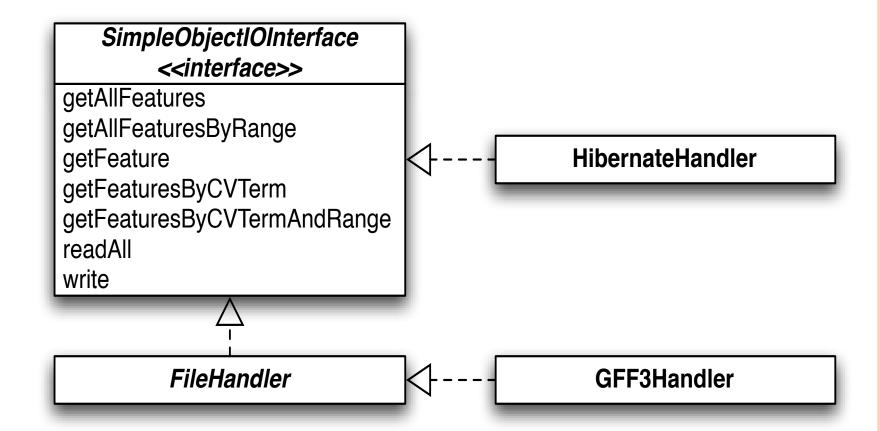
Ed Lee

Lawrence Berkeley National Laboratory

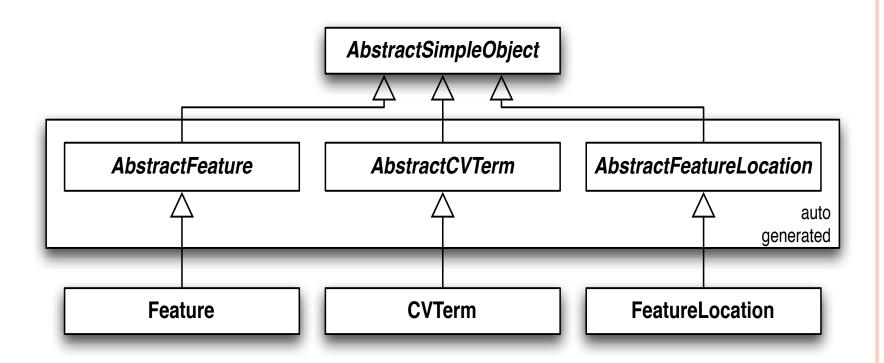
ARCHITECTURE



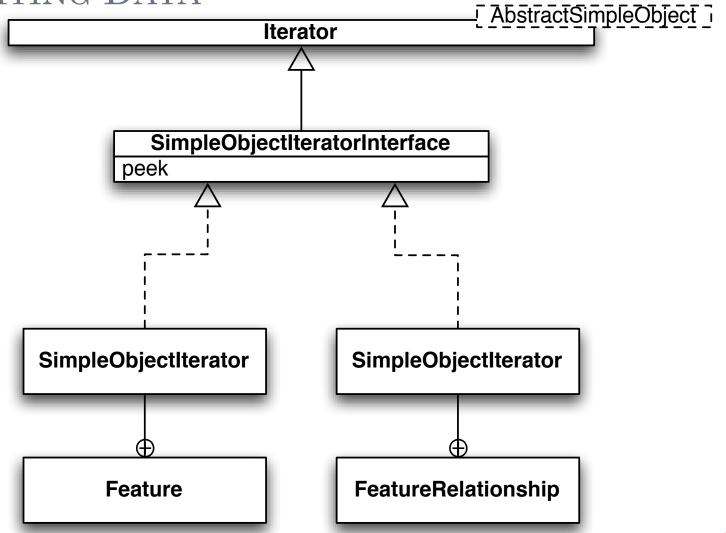
SIMPLE OBJECT I/O LAYER



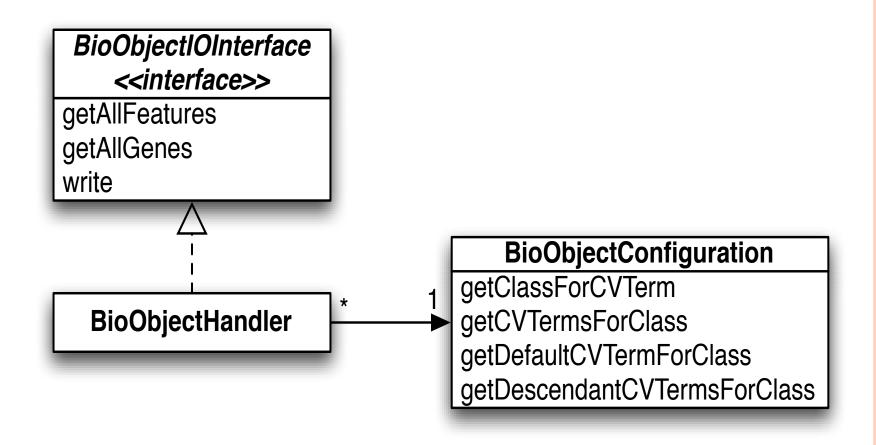
SIMPLE OBJECT LAYER



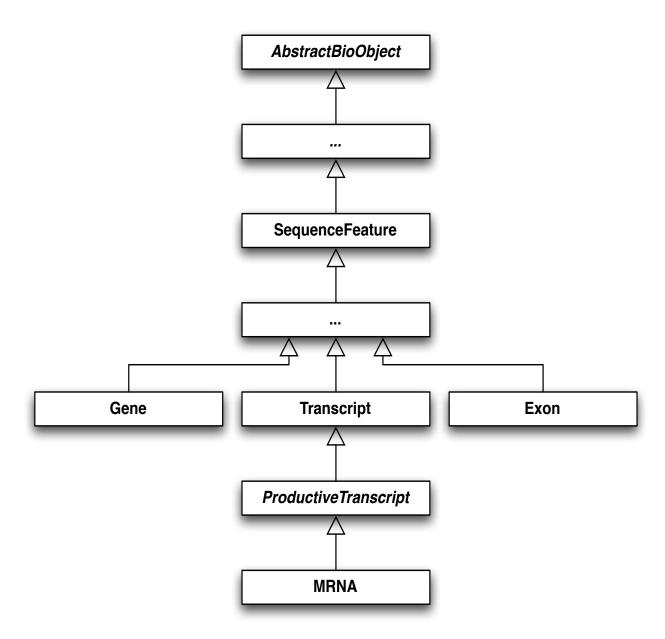
WRITING DATA



BIOLOGICAL OBJECT I/O LAYER



BIOLOGICAL OBJECT LAYER



BIOLOGICAL LAYER CONFIGURATION

```
<?xml version="1.0" encoding="UTF-8"?>
<gbol_mappings>
   <feature_mappings>
      <type cv="SO" term="gene" default="true">
              <read_class>Gene</read_class>
      </type>
      <type cv="SO" term="transcript" default="true">
              <read_class>Transcript</read_class>
      </type>
      <type cv="SO" term="my_transcript">
              <read class>Transcript</read class>
      </type>
   </feature_mappings>
   <relationship_mappings>
      <type cv="relationship" term="part_of" default="true">
              <read_class>PartOf</read_class>
      </type>
   </relationship_mappings>
</gbol_mappings>
```

FUTURE DEVELOPMENT

- Continued development on Biological layer
- Inference of data
 - Infer introns from exon structure
- New format handlers
 - ChadoXML
 - GAME XML
 - BioPerl bridge*
- Configuration of common relationship variations
 - ESTs aligned to the genome directly vs having a "match" feature

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http://code.google.com/p/gbol

