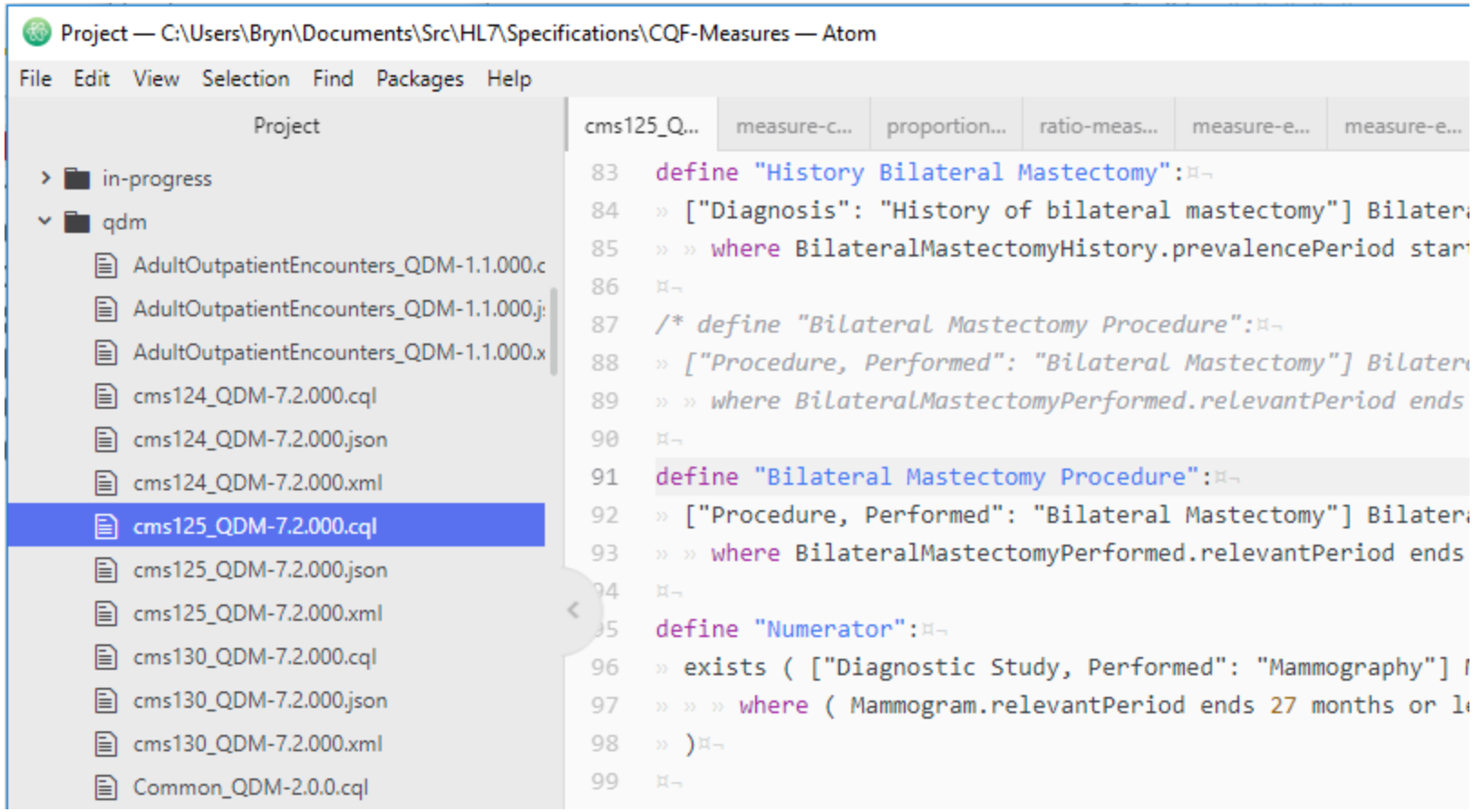
Getting Started with Clinical Quality Language (CQL)

Topics

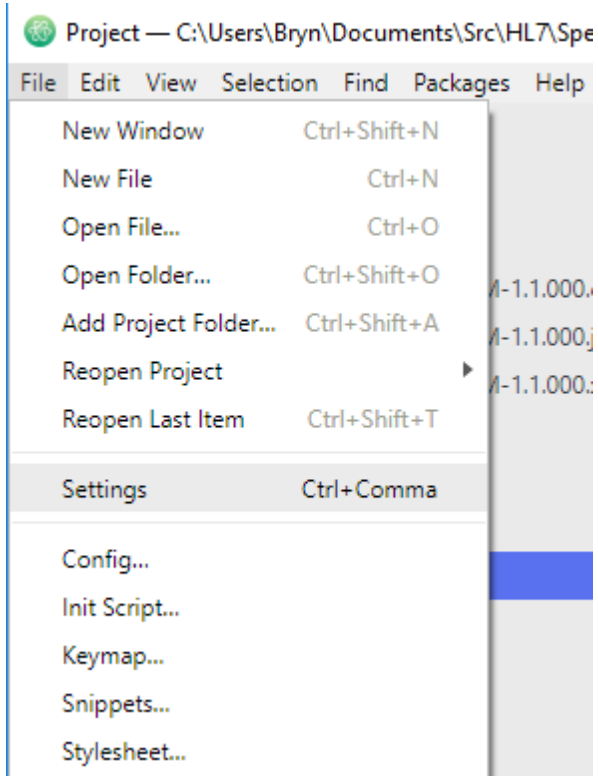
- Out-of-the-box Tools
- Resources
- Implementation Tools

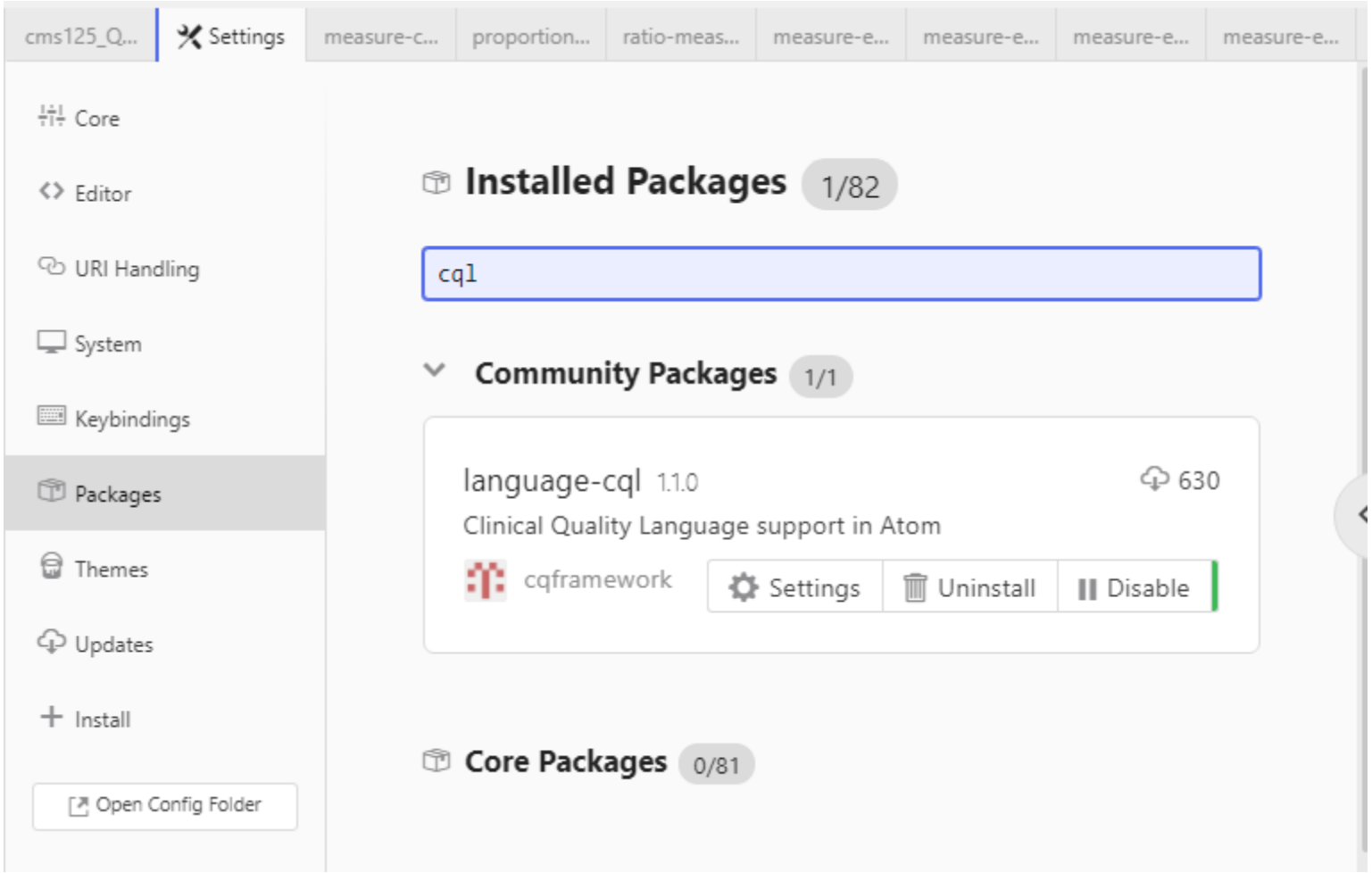
Atom – Best editor ever

- https://atom.io/
- Simple text editor
- CQL highlighter



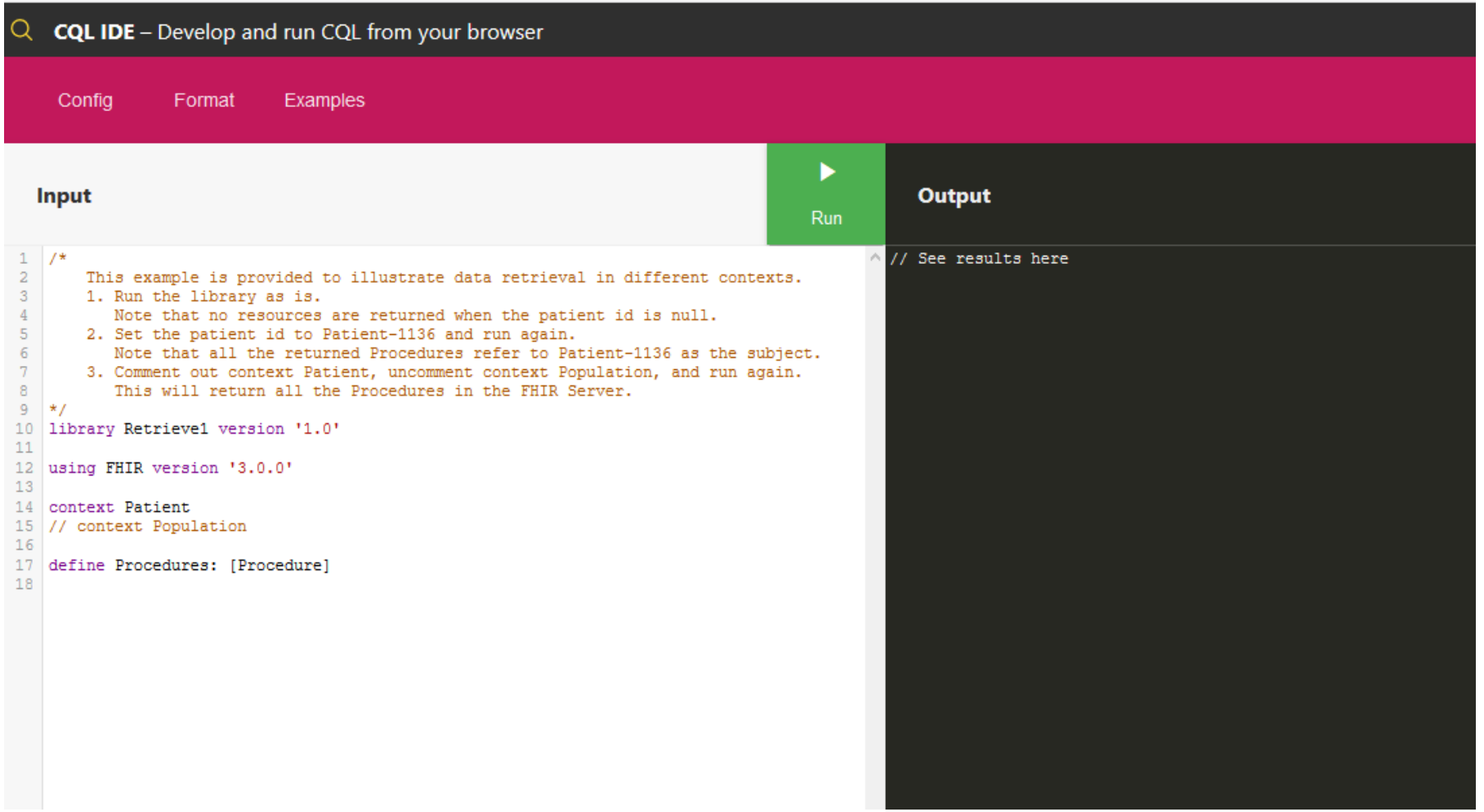
Atom – Package settings



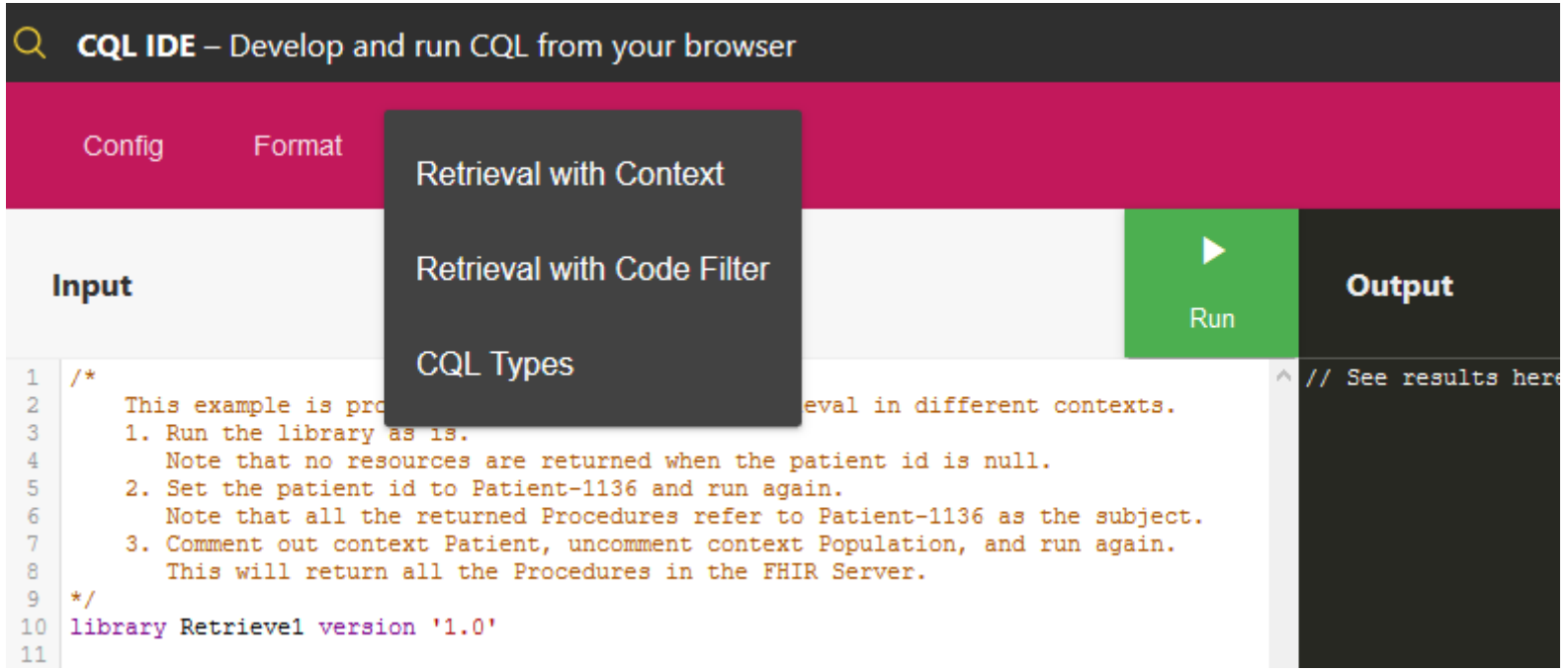


CQL-Runner – Ad-hoc CQL execution

- http://cql-runner.dataphoria.org

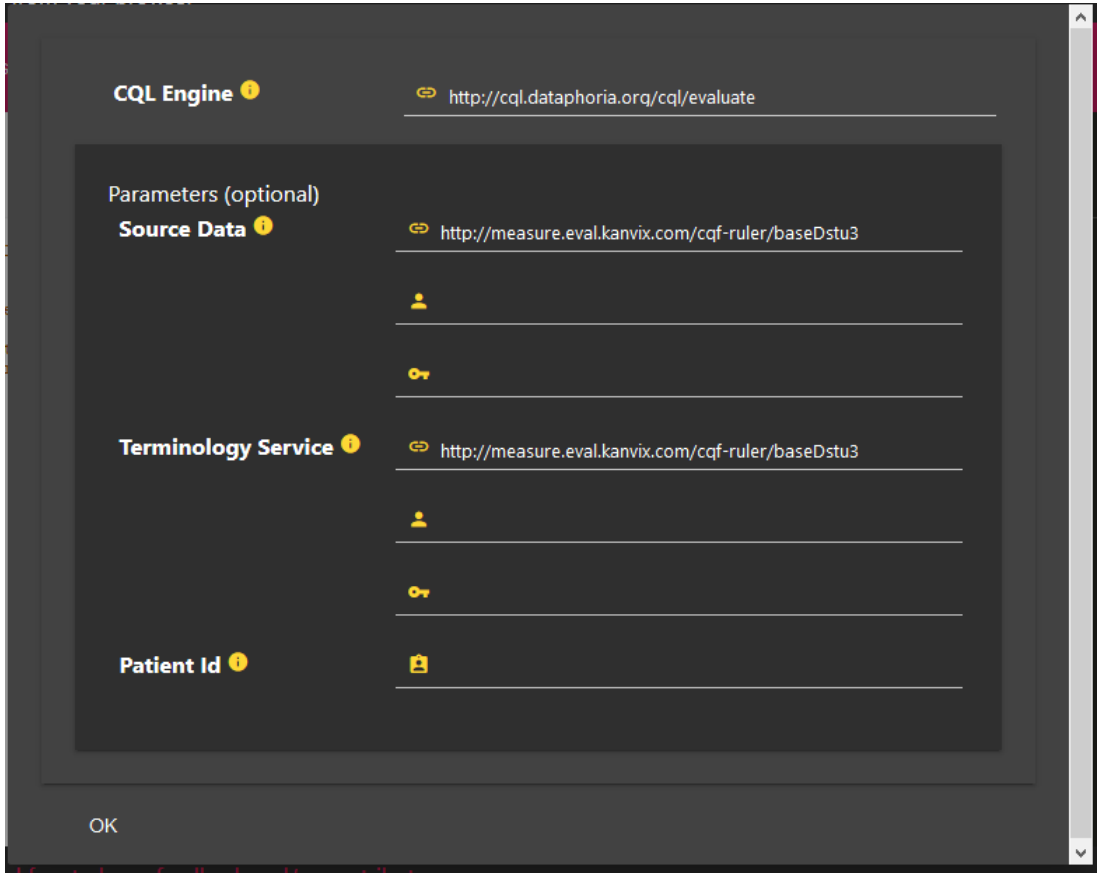


CQL-Runner – Examples



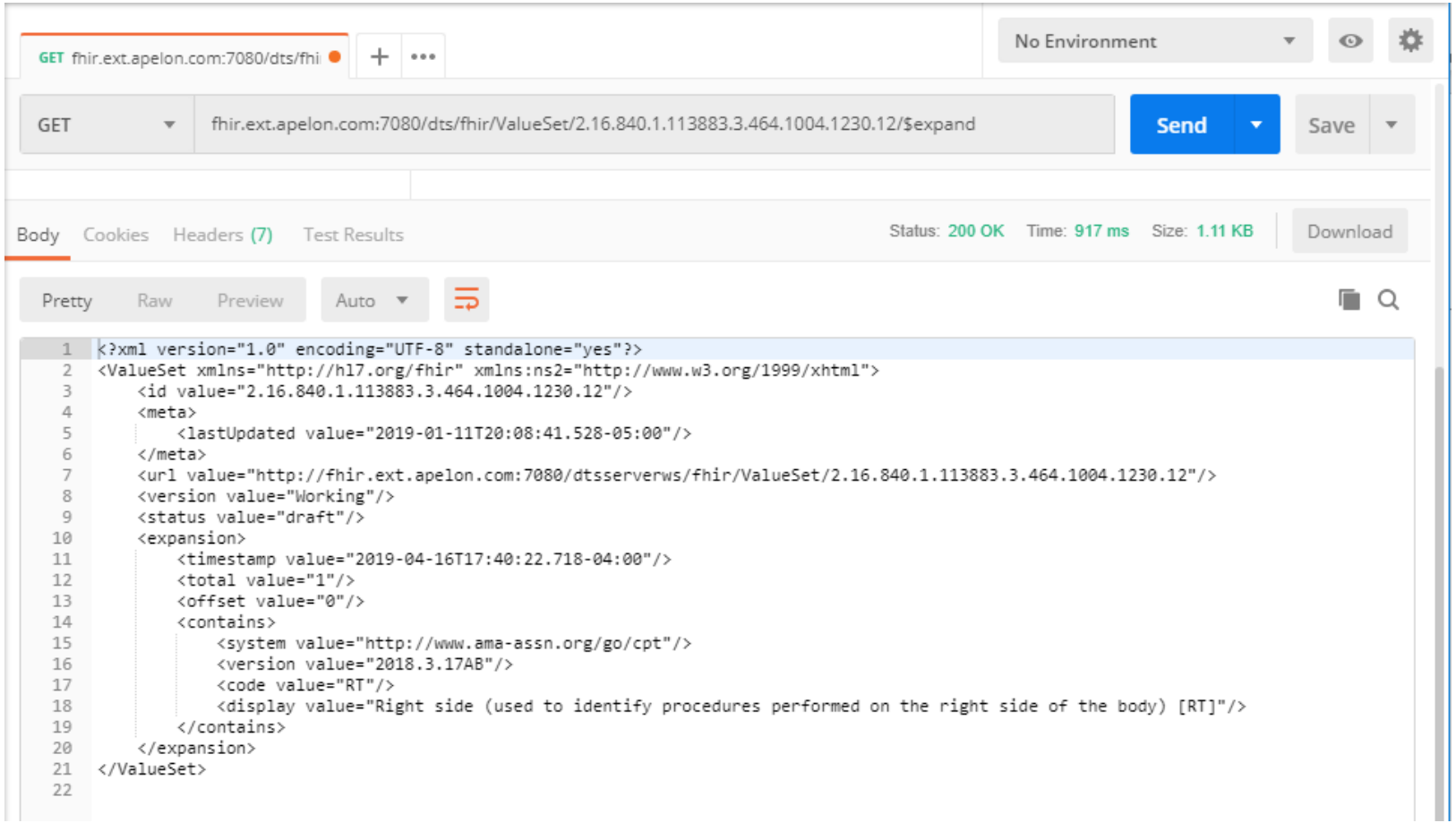
CQL-Runner – Config

- CQL Engine – leave it
- Source Data – What FHIR Server?
- Terminology – Usually the same
- Supports basic auth
- Patient Id – Which patient?



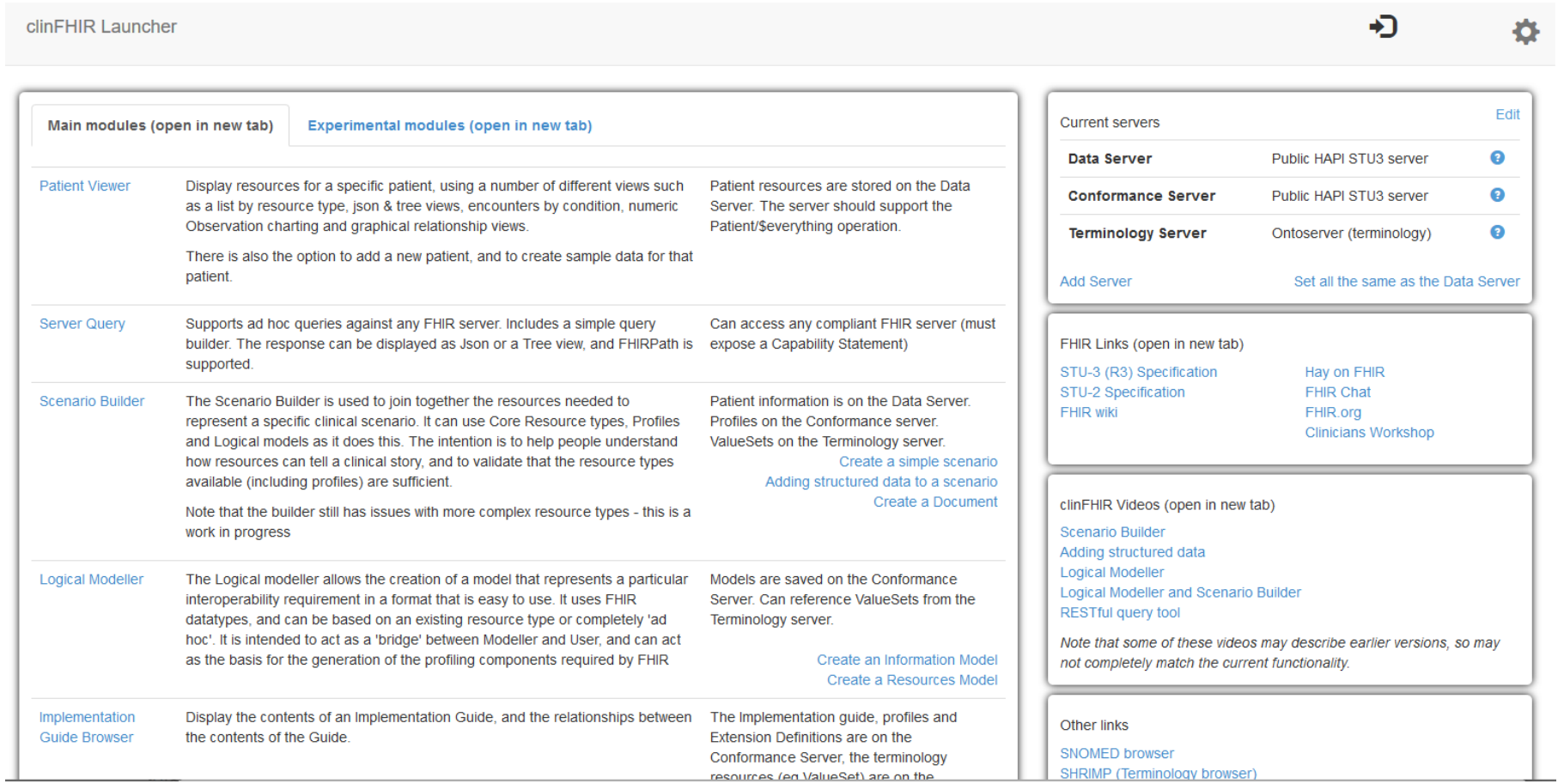
Postman – REST API Testing

- https://www.getpostman.com/



clinFHIR

- http://clinfhir.com/



Resources

- Clinical Quality Language
  - http://cql.hl7.org
- FHIR STU3
  - http://hl7.org/fhir/STU3
- QI-Core Profiles
  - http://hl7.org/fhir/us/qicore
- Quality Data Model (QDM) to QI Core Mapping
  - http://hl7.org/fhir/us/qicore/qdm-to-qicore.html
- QUICK
  - http://hl7.org/fhir/us/qicore/quick/QUICK-index.html

More Resources!

- Authoring Measures in CQL
  - https://github.com/esacinc/CQL-Formatting-and-Usage-Wiki/wiki/Authoring-Measures-in-CQL
- FHIR Measure Implementation Guide
  - http://hl7.org/fhir/us/cqfmeasures/
- Data Exchange for Quality Measures
  - http://hl7.org/fhir/us/davinci%2Ddeqm/2019May/STU3/
- HEDIS Implementation Guide
  - http://build.fhir.org/ig/cqframework/hedis-ig

Implementation Tools – (!faint_of_heart)

- CQL-to-ELM Translator
  - https://github.com/cqframework/clinical_quality_language/blob/master/Src/java/cql-to-elm/OVERVIEW.md
- JS CQL Execution Engine
  - https://github.com/cqframework/cql-execution
- Java CQL Execution
  - https://github.com/dbcg/cql_engine
- CQF Ruler
  - https://github.com/DBCG/cqf-ruler
- CQL-to-SQL Translation
  - https://github.com/cqframework/healthedecisions