Getting Started with Clinical Quality Language (CQL)
Topics

• Out-of-the-box Tools
• Resources
• Implementation Tools
Atom – Best editor ever

- [https://atom.io/](https://atom.io/)
- Simple text editor
- CQL highlighter
Atom – Package settings

- Installed Packages
  - cq1

- Community Packages
  - language-cql 11.0
    Clinical Quality Language support in Atom
    - cqframework
      - Settings
      - Uninstall
      - Disable

- Core Packages
  0/81

- Core
- Editor
- URI Handling
- System
- Keybindings
- Packages
  - Themes
  - Updates
  - Install
CQL-Runner – Ad-hoc CQL execution

- [http://cql-runner.dataphoria.org](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/](https://www.getpostman.com/)
clinFHIR

• [http://clinfhir.com/](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

- FHIR Measure Implementation Guide

- Data Exchange for Quality Measures

- HEDIS Implementation Guide
  - http://build.fhir.org/ig/cqframework/hedis-ig
Implementation Tools – (!faint_of_heart)

• CQL-to-ELM Translator

• JS CQL Execution Engine
  • [https://github.com/cqframework/cql-execution](https://github.com/cqframework/cql-execution)

• Java CQL Execution
  • [https://github.com/dbcg/cql_engine](https://github.com/dbcg/cql_engine)

• CQF Ruler
  • [https://github.com/DBCG/cqf-ruler](https://github.com/DBCG/cqf-ruler)

• CQL-to-SQL Translation
  • [https://github.com/cqframework/healthendedecisions](https://github.com/cqframework/healthendedecisions)