

Let's Build: A clinical guideline recommendation with FHIR and CQL

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## Who am I?

- Bryn Rhodes
- Chief Technology Officer for Alphora (aka DCG)
- Co-chair of the HL7 Clinical Decision Support Work Group
- Standards Editor

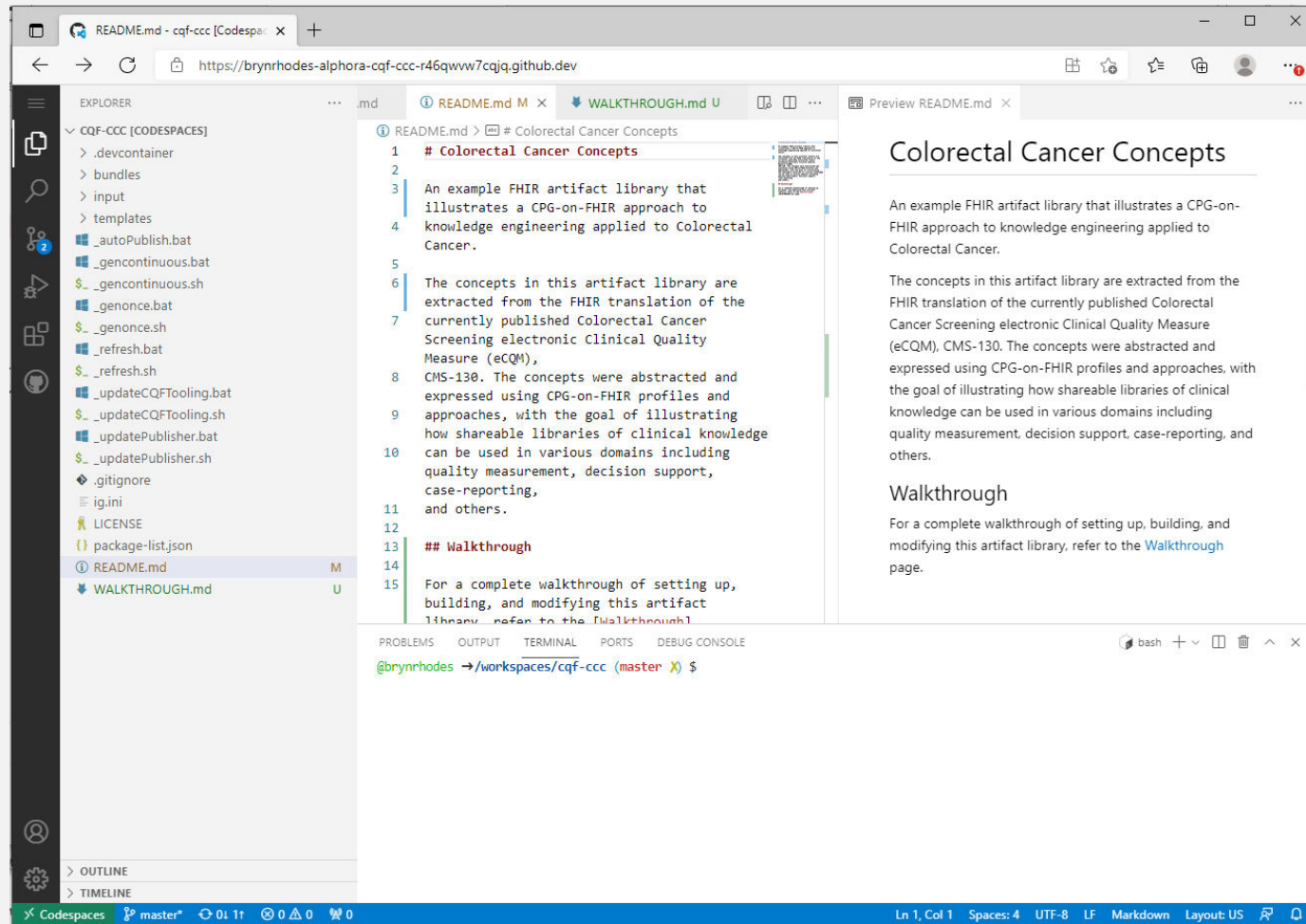
## Learning Objectives

- Understand and be able to make use of the CPG Content Authoring Environment
  - VS Code with extensions to support CPG content development
  - Packaged and distributable as a FHIR IG
- Understand and be able to deploy a simple CPG recommendation using CDS Hooks

# Codespaces

- <https://github.com/alphora/cqf-ccc>
- FHIR- and CQL-based authoring environment in the cloud
- Send github id to [info@alphora.com](mailto:info@alphora.com)
- Open codespace
  - Takes a while to build the container, be sure to give it time

# Open Codespace



The screenshot displays an Open Codespace interface for a repository named 'cqf-ccc'. The Explorer on the left shows a directory structure with files like 'README.md' and 'WALKTHROUGH.md'. The main editor area shows the content of 'README.md', which includes a heading '# Colorectal Cancer Concepts' and a section '## Walkthrough'. A preview window on the right shows the rendered HTML of the README, including the heading and the introductory text. The terminal at the bottom shows the current directory as '@brynrhodes → /workspaces/cqf-ccc (master X) \$'.

*NOTE: This recommendation was updated in May of 2021; the updates have not been considered here yet*

## Running Example

- The U.S. Preventive Services Task Force (2016) recommends screening for colorectal cancer starting at age 50 years and continuing until age 75 years. This is a Grade A recommendation (U.S. Preventive Services Task Force, 2016).
- Appropriate screenings are defined by any one of the following:
  - Colonoscopy (every 10 years)
  - Flexible sigmoidoscopy (every 5 years)
  - Fecal occult blood test (annually)
  - FIT-DNA (every 3 years)
  - Computed tomographic colonography (every 5 years)

# Walkthrough

- Review Artifact Source
- Unit Test
- Deploy
- Integration Test
- Modify
- Re-deploy
- Re-test

# What did you learn?

- Summarize
  - A FHIR CPG is...
  - A FHIR CPG Content Authoring Environment is...
  - FHIR CPGs can be distributed as...
  - FHIR CPGs can be deployed by...



## Contact

- During DevDays, you can find / reach me here:
  - Via Whova App – Speaker’s Gallery
  - bryn@alphora.com
  - <https://www.linkedin.com/in/brynrhodes>
  - Zulip FHIR Chat: <https://chat.fhir.org/#narrow/pm-with/191359-bryn>

# Q&A

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