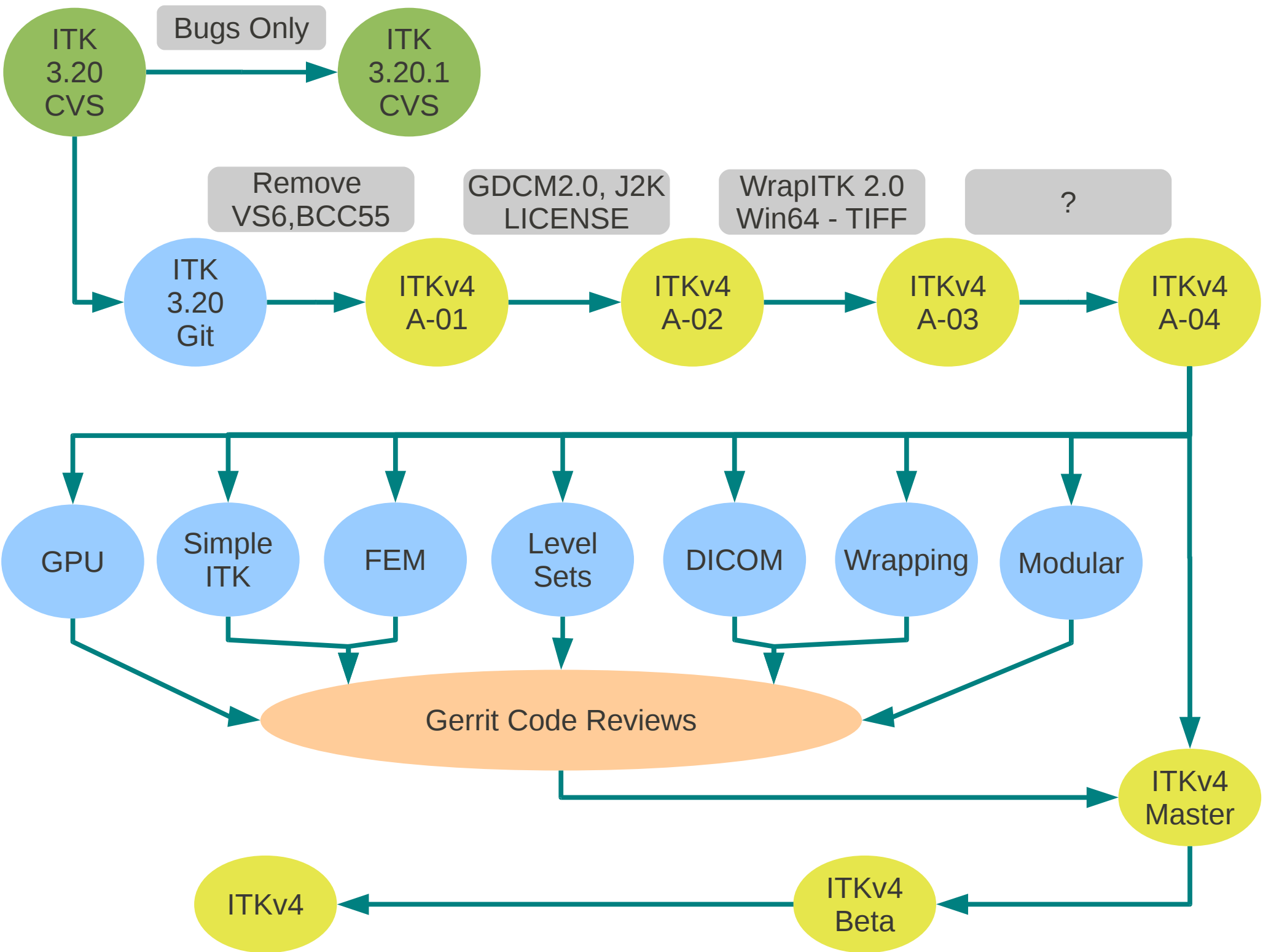
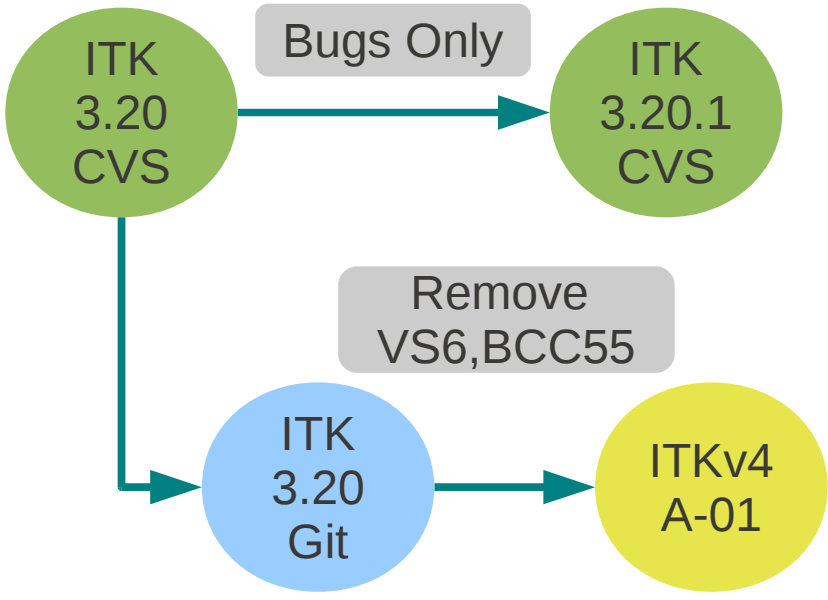


**ITK 3.20 - ITKv4**

Transition Plan

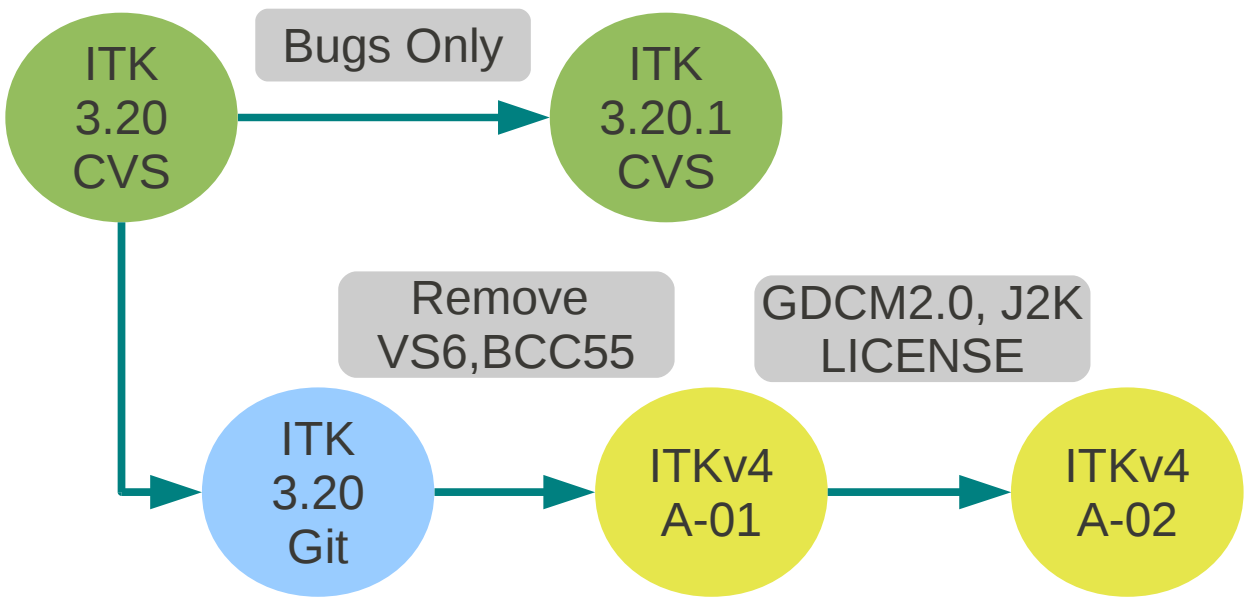
# Repository Distillation Sequence





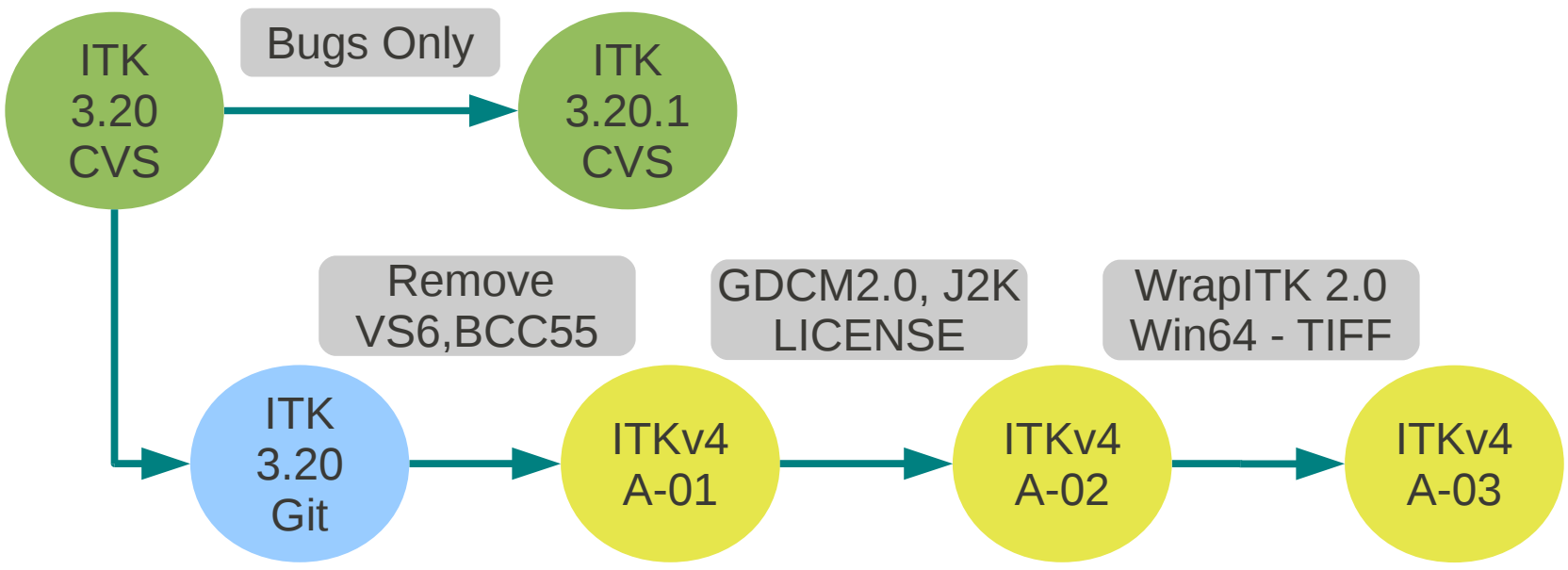
# ITKv4 – Alpha 01 – Release Notes

- Removed support for Deprecated Compilers
- Statistics Framework Updated
- Consolidated Morphology
- Multi-Threaded Registration Metrics Updated
- Centered Pixel Consistency Enforced
- Remove all Deprecated code
- Some CMake Options Removed



# ITKv4 – Alpha 02 – Release Notes

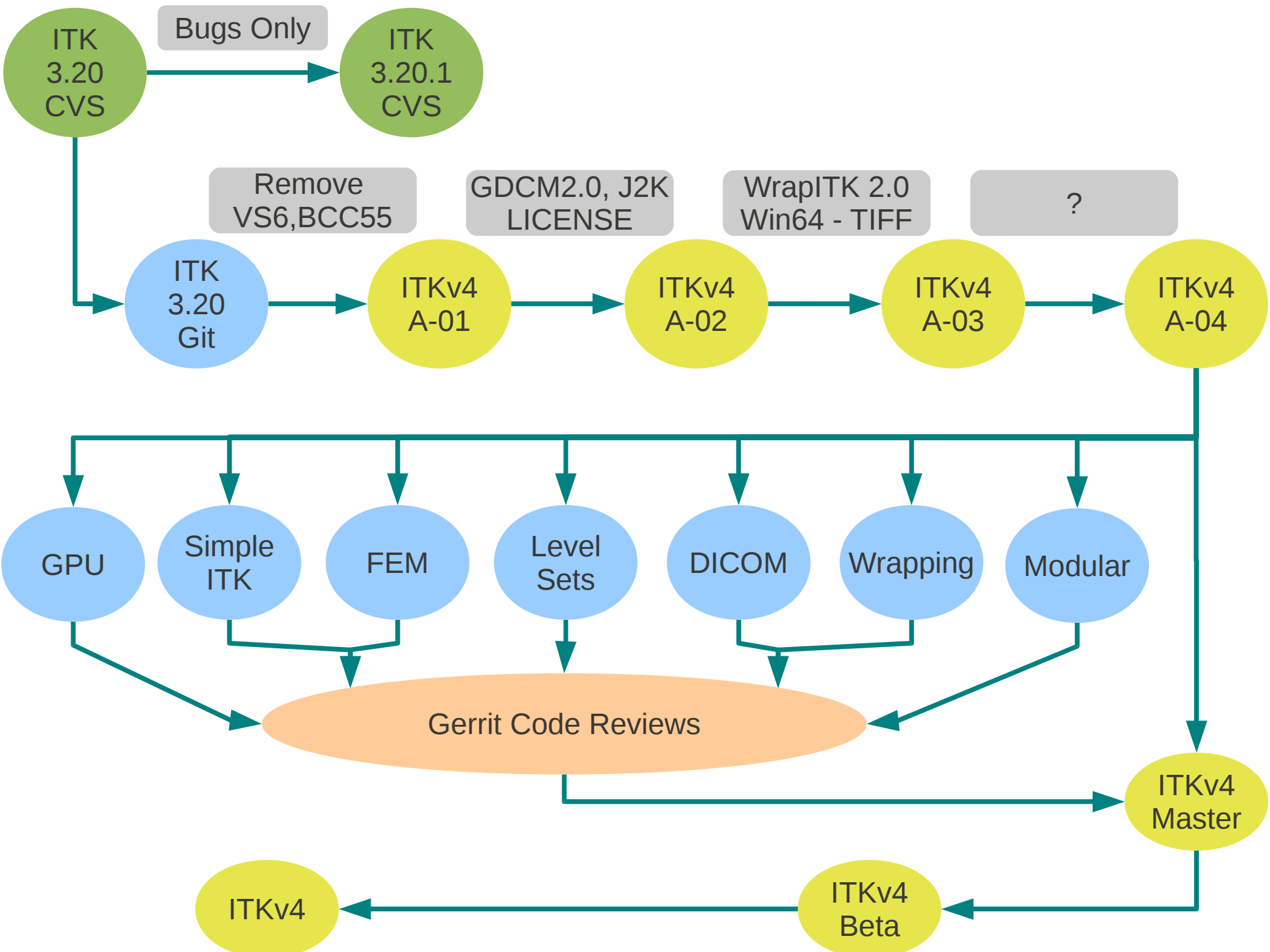
- **Uncrusty** reformatting
- Updated **OpenJpeg**
  - JPEG2000ImageIO
- Updated **Jpeg** 8B
- Updated to **GDCM** 2.0
- **Apache 2.0** License
  - Removed **Patented** Code
- QuadEdgeMesh out of Review
- CMake to lowercase





# ITKv4 – Alpha 03 – Release Notes

- Windows **64bits** : `size_t`, `ptrdiff_t`
- TIFF 4.0
- Statistics Examples Update
- 
- 
- 
-



# Transition Plan

- Sequester Reference Applications
  - Configure Them as Nightly Builds
- Move to Git
  - Do three clean up releases
  - Split into topic branches
  - Insert code review infrastructure
  - Flow towards Master for ITKv4 Beta
- Generate Migration Guide
  - As we go

# Securing Reference Applications

- ITK Testing Directory
- InsightApplications
- Slicer 3.6
- ITK-SNAP
- GoFigure
- OrfeoToolbox
- BRAINS
- IGSTK
- MITK (Heidelberg)
- ANTs
- LSTK
- V3D Plugins
- FARSIGHT
- Elastix
- VesselTK
- MedINRIA

# Securing Reference Applications

- For all these applications:
- Their release versions will be cloned in Git
- They will be build Nightly against the transitioning version of ITK
- When a change in ITK breaks any of these applications, a “Migration Report” will be filled out, and the application will be fixed.

# Migration Report

- Will include:
  - What Changed in ITK
  - Why was this changed ? (justification)
  - Compilation errors it produced in the apps.
  - Patch that was used for fixing the apps.
- It will serve as a database of compilation errors and their solutions.