GOALS, DIRECTIONS, POSSIBILITIES, THOUGHTS

Fe6 Project

A: Quarterly goals (2018-3)

- FS-ingest: work toward enabling others (missionaries, students, …) to process a book

- CMS: design and implement Green workflow for COMET (import, export, indexing)

- Pipeline: complete Green workflow for initial import & export and for GreenQQ indexing

- COMET: rework design and implementation for Green workflow

- ConstraintEnforcer: enhance Family retraction/revision handler; design merge/unmerge checker

- FROntIER:

- GreenDDA/GreenML: test relationships; design/test for inclusion in the Green workflow

- GreenFIE: submit paper

- GreenQQ: solidify for use in Green workflow; implement Advanced User Interface

- ListReader:

- OntoES: reassess design for use in Green workflow indexing

- OntoSoar:

A: Ingest into FS

- Green workflow interface:

- Import to search repository

- HyKSS-like search over search repository

- Export from search repository to COMET

- Export from COMET to FamilyTree (with human checked person info via D-Dupe-like interface)

- Jon Morrey’s suggestion: run 1,000 books through the system

Research

A: (Liddle) GreenFIE paper (DKE)

- Green System of the Whole based on GreenQQ patron interface (emisa experience paper, w/ GN)

- extraction by layout for forms & diagrams

A: (Lonsdale)

- GreenDDA (w/ GN), GreenML & GreenOTS

- OntoSoar: preprocess with named-entity recognizer (does this give a significant boost?)

- long-term directions: co-reference resolution, XNL parser; declarative rule specification; rule learning

A: (Nagy) GreenQQ journal paper

A: (Woodfield)

- quality assessment (duplicate detection on import, merge/unmerge in FamilyTree)

- Bayesian reasoning for assessing quality

B: (me, from Thomas) follow up on TKDE paper (Dec 17 resubmission)

- Name/Place/Date-level text abstraction (w/ DL & SL)

- high-level nested pattern discovery in a second pass with record-level text abstraction

C: Grand Challenges

- “Green Interaction” (systems that improve while being used for real-world applications)

- “Teaching Computers to Read” (cognitive computing grand challenge): EMISA paper

- “Web of Knowledge” (WoK vision with FamilySearch as an example)