review : : CHEAT SHEET

QC Log

review assists users during the QC process. A log is needed to store the history of QC for every file.

Create a QC log

logCreate() generates an empty csv called “QClog.csv”. As files are QCed, this csv will be populated with all records of QC assigning and approval.

Assign a file to be QCed

logAssign() adds a row to the QC log, indicating a file is ready to be QCed. A specific reviewer can be assigned as well.

Approve a file after QC

logAccept() adds a row to the QC log, indicating a file has been QCed. Whoever performed the QC is included as the “reviewer” in the log.

QC log contents

Every entry in the QClog contains:
- file name
- reviewer (user who performed QC)
- revision number
- date/time

SVN Helpers

review helps the user leverage version history of files from SVN.

Export an old revision

svnExport() creates a local copy of a file’s past revision.

View version history of a file

svnLog() provides the history of every modification to a file. Including each author, revision number and date/time.

QC Status

After the QC log is populated, various summaries can be generated.

View QC status of files

logSummary() provides the user with the revision number of last modification and last QC for every file in the QC log.

Identify all files needing QC

logPending() returns files needing QC. Note, only files with at least one record in the QC log will be checked.

Generate a QC summary PDF

renderQCSummary() creates a PDF containing multiple summary tables. These include:
- all files needing QC
- all files fully QCed
- QC status by file, stratified by author

Each table includes the last reviewer for each file. If a file has yet to be QCed, the reviewer will appear as “anyone”.

Note, tables stratified by author are aimed to help identify files that have not been added to the QC log but should have been.

Use QC summary data in R

dirSummary() returns multiple data.frames used to populate the PDF described above.

If the QC summary is desired in a different format than pdf, this output can be used to populate it.

Generate Diffs

A set of *diff-* functions are provided to help users view modifications made to files between revisions.

All diffs generated have the same formatting. Deleted code in the older version will appear red. New or modified code in the newer version will be green.

```
library(review)
x <- 2
y <- x + 3
```

```
library(review)
x <- 1
y <- x + 3
z <- x * y
```

Diff from last QC

diffQced() identifies the modifications made to a file since the last QCed revision.

Diff between past revisions

diffPreviousRevisions() enables the user to view changes to a file between either:
- two past versions
- a past and current version

Note, users can leverage the *svnLog()* function to find past revisions of interest.

Diff between files

diffFiles() allows the users to generate visual diffs between two local files. This can be useful in cases where templated files are being used.

In some cases, it may be desirable to see the diff between a file and an older revision of a different file. *svnExport()* can create a local copy of the past revision to allow the user to use *diffFiles()*.

Compare Outputs

When updating tables and figures, it’s useful to compare the previous and updated versions. This allows the user to understand the impact of the update and catch unintentional changes earlier.

Review updates to figures

compareFigures() generates a html page. The contents are dependent on the use case. The user can:
- compare the local version of a figure to the last version checked in SVN
- compare two local versions of figures

If desirable, a directory of figures can be compared on the same html page for both cases listed above. Note, only PDF and PNG figures will be compared.

Review updates to tables

compareTables() generates a html page. Only TEX files will be compared, and each table will be shown in a PDF.

Note, multipage files are compatible with both functions. Users will need to scroll down in the PDF viewer to see all pages.

Feedback

If you encounter any issues while using **review**, please file an issue here. Feature requests and any other feedback can be recorded there and is greatly appreciated.

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