Reporting in DFdiscover

Eric Bosch, DF/Net Software ULC
Goals

• Separate data from presentation
• Source data available
• Interaction without (always) going back to server
• HTML presentation
• Excel data
• Multiple reports view
Demos
New Structure

• Consume JSON data from DFws
• Present output as HTML5/CSS
• Interactivity via JavaScript
• Use a "CDN" for shared resources
Presentation

• HTML5 / CSS / JS
• Reports View, or your browser
• Include your study logo
JSON data

• Raw data is available to the client
  o Facilitates interactivity
  o Available to export (Excel, JSON)

• Save as HTML and JSON is embedded!

• Business login in EDCservice (middle layer)
JavaScript Interaction

- Built upon open source D3.js and C3.js
- Alternate presentations with same data
- Stacking / grouping bars
- Filtering, sorting
- Link to related items
Reports Grouping

• Tree navigation
• New notation in .info file

<BEGINGROUP>
<ENDGROUP>
Multiple Report Windows

- Undock and dock windows
- User Preference
- Interactivity is maintained
Example 2.91. Delete missing page QCs created by DF_QCupdate and dfaddmpqc

-d 21,23
DF_QCupdate: Update Quality Control Database. DFstudy 252. May 20, 2005 09:57

1. Checking permissions on study 252, demo252
2. Reading study configuration files
3. Exporting current overdue visit and missing plate QC notes
4. Discarding all QC notes with specified problem types
   - Problem type 21: 14 QC notes
   - Problem type 23: 2 QC notes
   - 16 records input: 16 imported (0 warnings), 0 failed with errors
5. Done

Each QC note has a problem code. The standard codes are: 1=missing, 2=illegal, 3=inconsistent, 4=illegible, 5=fax noise, 6=other problem, 21=missing page, 22=overdue visit, and 23=EC missing page (QC notes created by edit check function dfaddmpqc). Codes ranging from 30-99 may also exist if other QC problem types have been defined at the study level. When the -d option is followed by a list of QC problem codes, the QCs with the specified codes are deleted. No patient scheduling is performed, no new overdue visit or missing page QCs are created, and the summary files stored in the study work directory are not updated.

**Note**

QCs with problem codes 21 and 22 can be re-created by running **DF_QCupdate**, and code 23 QCs can be re-created using an appropriate batch edit check run, but there is no automatic way to re-create QC notes that were added manually by individuals using **DFexplore**. There is no undo feature. Deletes are permanent, and the only record of their prior existence will be in the audit trail. Use the -d option with care.
Archive Report

- Replace all references with static resources
- Data is embedded in report
- Ideal for sharing
- Email HTML to your colleagues
- Interactivity works
Intermediate

- Generate JSON, CSV data
- Use Google charts, for example, for visualization
  https://developers.google.com/chart/interactive/docs/gallery
Legacy Reports

- Continue to work
- Text-based output
- Replicate as many as possible in new report style
Feedback

• Push reports to dashboard?
• This is the ideal time
• What types of additional standard reports?