Hybrid, Funky, and Dynamic Intra-Document Analytics

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ABSTRACT

1. INTRODUCTION

2. PROBLEMS IN EXPERIMENTAL SECTIONS

access to raw data

3. SIGNIFICANCE OF THE CONTRIBU-TION

- Graph Reproducability. connected workflow from data production to presentation
 - measurements embedded in the pdf
- 2. **Data Preservation.** data published together with the paper what is the "paper" anyway? Shouldn't we revise our notion of "paper"?
- In-Document Data Analysis. slice and dice; drill-down, roll-up, pivots
- 4. **Alternate Views on the Data.** log vs linear; table vs graph; absolute runtimes vs normalized runtimes

applicable to any research working with data, not just the db community

long time preservation of the underlying data files

allows other researcers to easily run different analyses on the same data

4. RELATED WORK

SIGMOD reproducability initiatives and papers (two, right?) upcoming Dagstuhl perspectives workshop

experiments and analysis track and its problems: access to data, access to code

CIDR 2015 talk

BTW 2015 talk with link to youtube video dynamic docs in R
Pweave http://mpastell.com/pweave/index.html

5. THE PDBF FRAMEWORK

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core compilation steps (with graphs could use the ones I did for my BTW talk)

different output format options pros and cons of those output formats

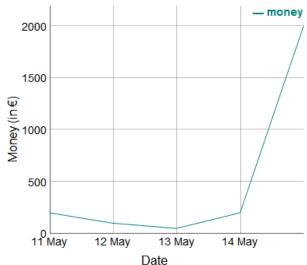
6. THE DEMO

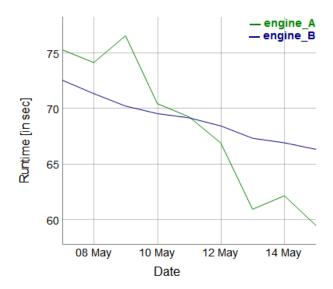
We invite the reader to change the suffix ".pdf" of this submission to ".html". Your browser will open and you will be able to see the dynamic features. Notice that the dynamic content is completely offline and runs entirely in your Web browser's sandbox.

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6.1 Feature 1...

Switch between data representations for better visualization Chart, Pivot Table, Table





6.3 Feature 3...

Analyze data in browser Remove filtering functions from graphs Look which method performed best under certain condition

6.4 Else

7. CONCLUSIONS

publish the code?
website?
should we mention security aspects of funky?

8. REFERENCES

6.2 Feature 2...

Get raw data, source code raw data can be exported as csv with header maybe other file attachements?