

"Validaty" shiny app

Matthias Gomolka

Mariko Kawano

Mark van der Loo

Marianna Mitratza

Kazumi Wada



Problem

- quick test of the dataset quality: are specific rules followed or not?
- domain experts set the rules + can communicate results of test
- no programming experience needed



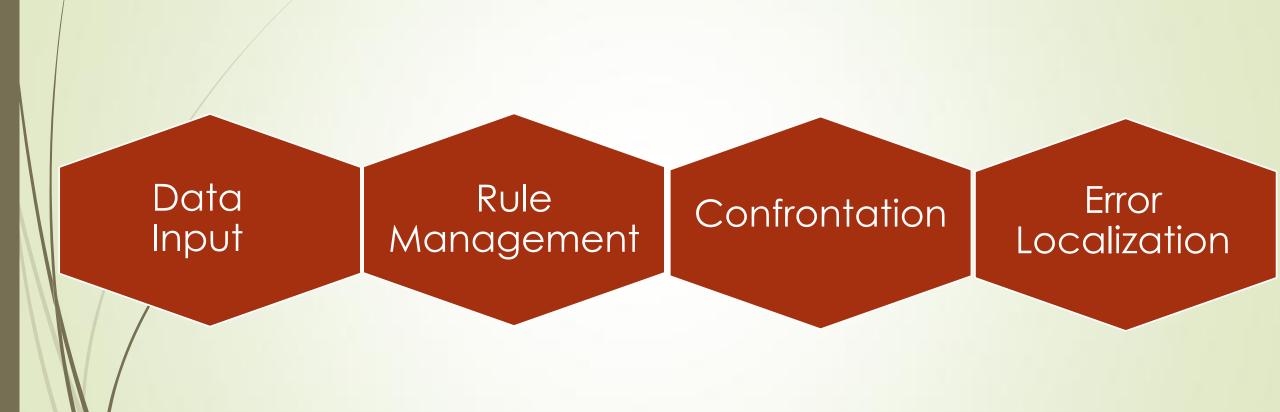


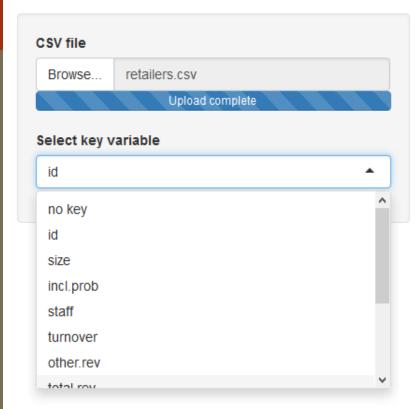


R packages behind the idea

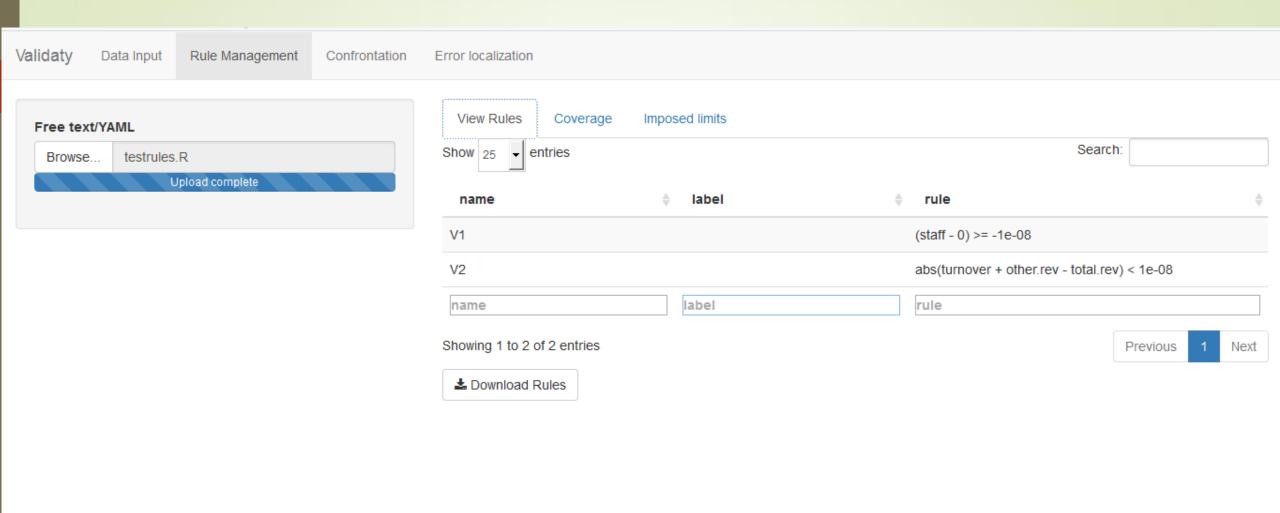
- "validate"
- 1) Basic data validation:
 - Enter rules, and their metadata (descriptions)
 - Apply rules to a dataset interactively. Update as rules are added
 - Import and export rules from and to file
 - Show an interactive dashboard with results
- 2) Analyze rule sets:
 - Visualize the rules and the variables that they `touch'
 - Interactively look for redundancies or inconsistencies and present it to the user
- "errorlocate"

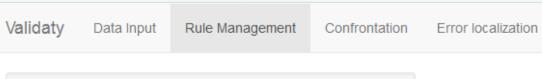
Design - Features

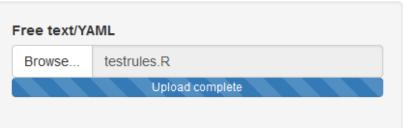


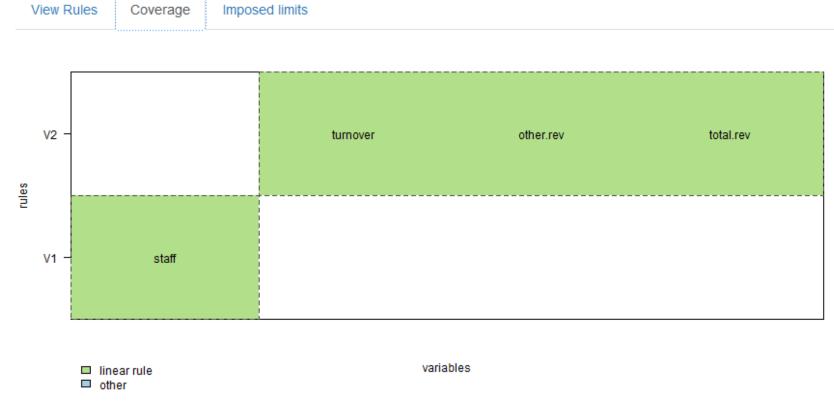


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id ∲	size 🌲	incl.prob \(\psi	staff \$	turnover \(\psi	other.rev ϕ	total.rev 🏺	staff.costs 🌲	total.costs 🌲	profit \$	
RET01	sc0	0.02	75			1130		18915	20045	
RET02	sc3	0.14	9	1607		1607	131	1544	63	
RET03	sc3	0.14		6886	-33	6919	324	6493	426	
RET04	sc3	0.14		3861	13	3874	290	3600	274	
RET05	sc3	0.14			37	5602	314	5530	72	
RET06	sc0	0.02	1	25		25		22	3	
RET07	sc3	0.14	5			1335	135	136	1	
RET08	sc1	0.02	3	404	13	417		342	75	
RET09	sc3	0.14	6	2596		2596	147	2486	110	
RET10	sc2	0.05	5							
RET11	sc2	0.05	5	645		645	130	636	9	
RET12	sc2	0.05	5	2872		2872	182	2652	220	
RET13	sc3	0.14	13	5678	12	5690	326	5656	34	
RET14	sc1	0.02		931397		931397	36872	841489	89908	



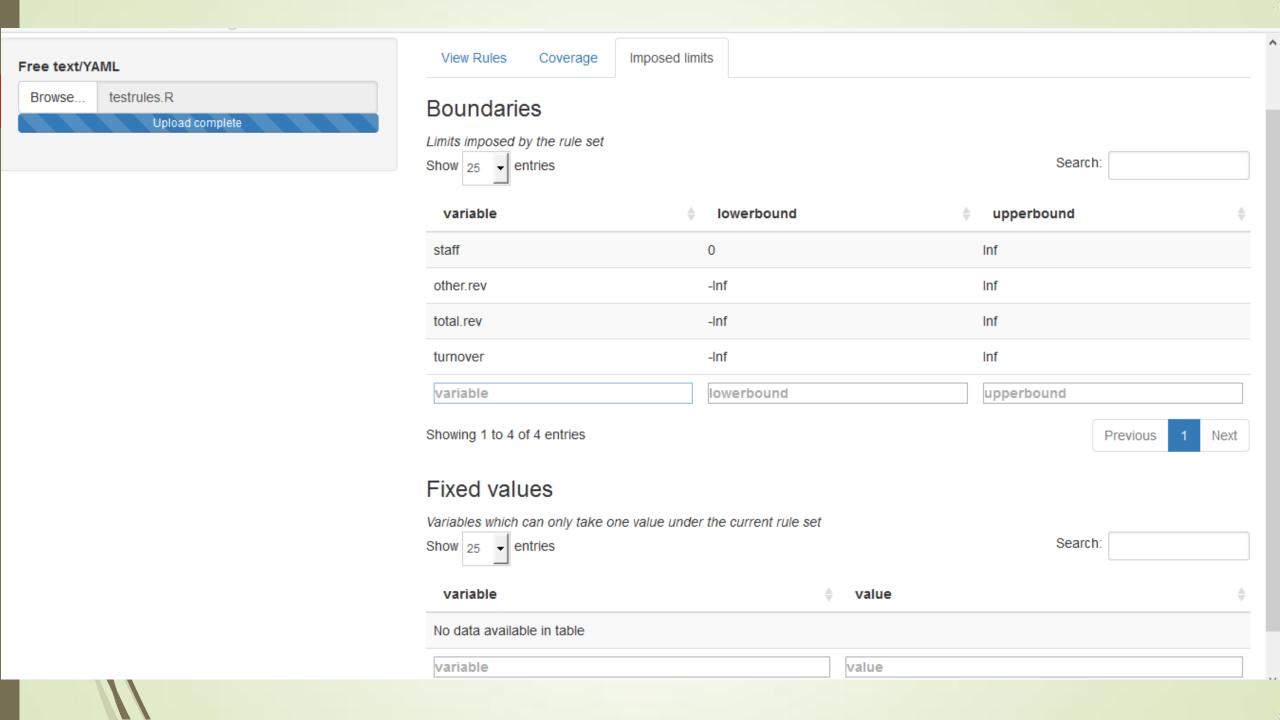


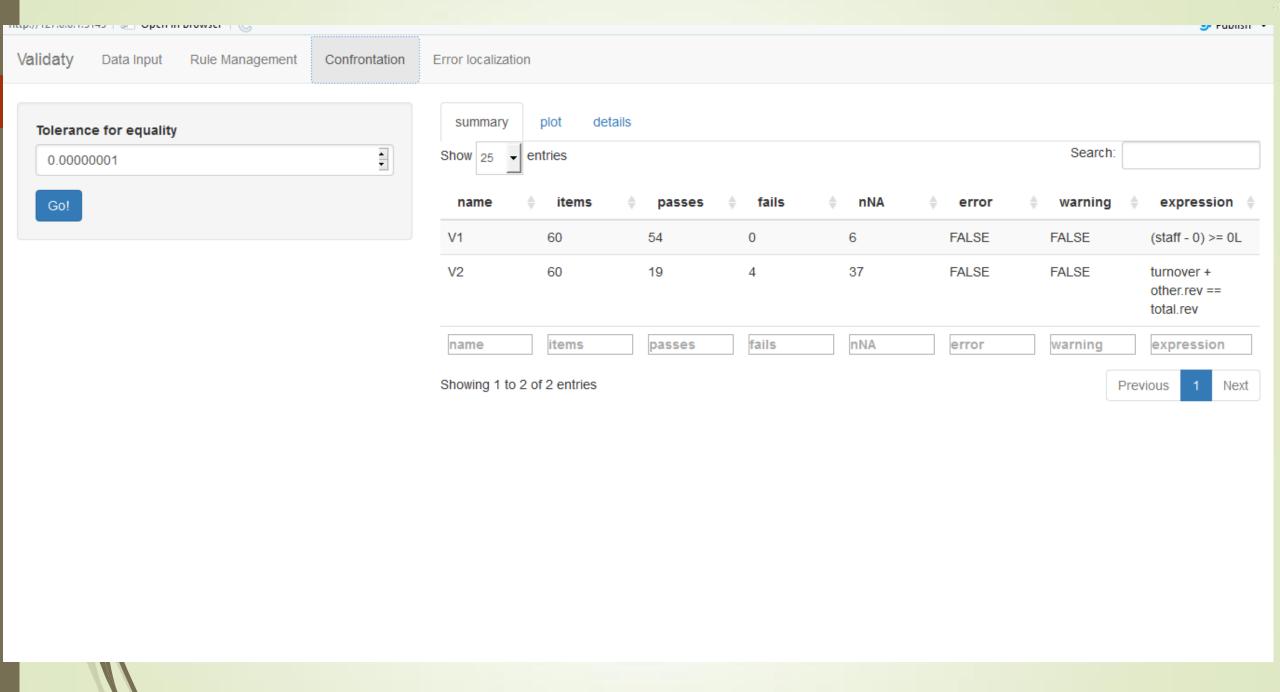


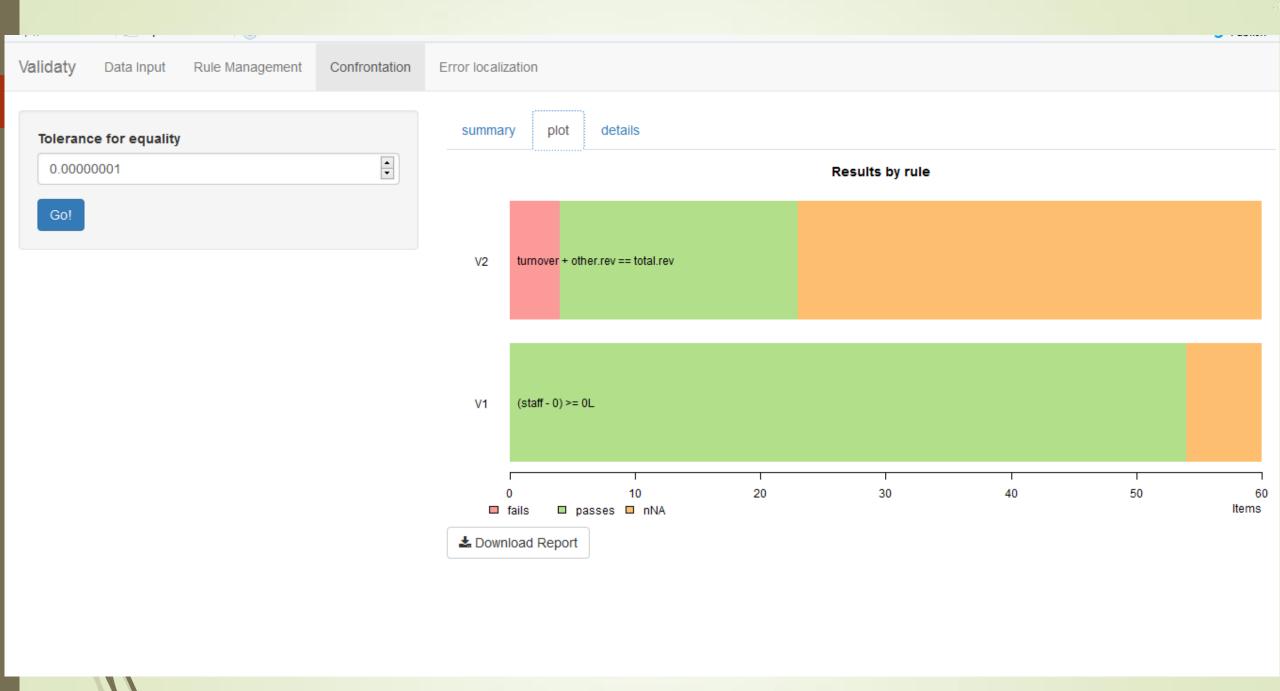


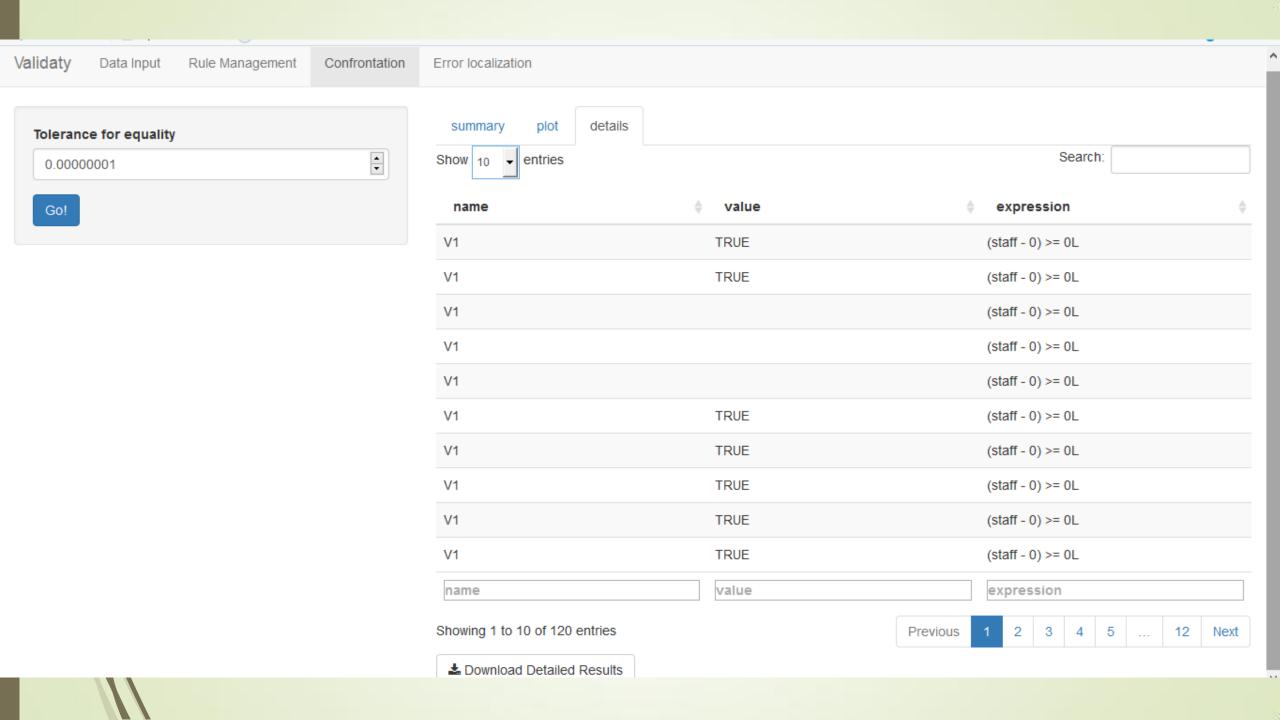
Variables covered: staff, turnover, other.rev, total.rev

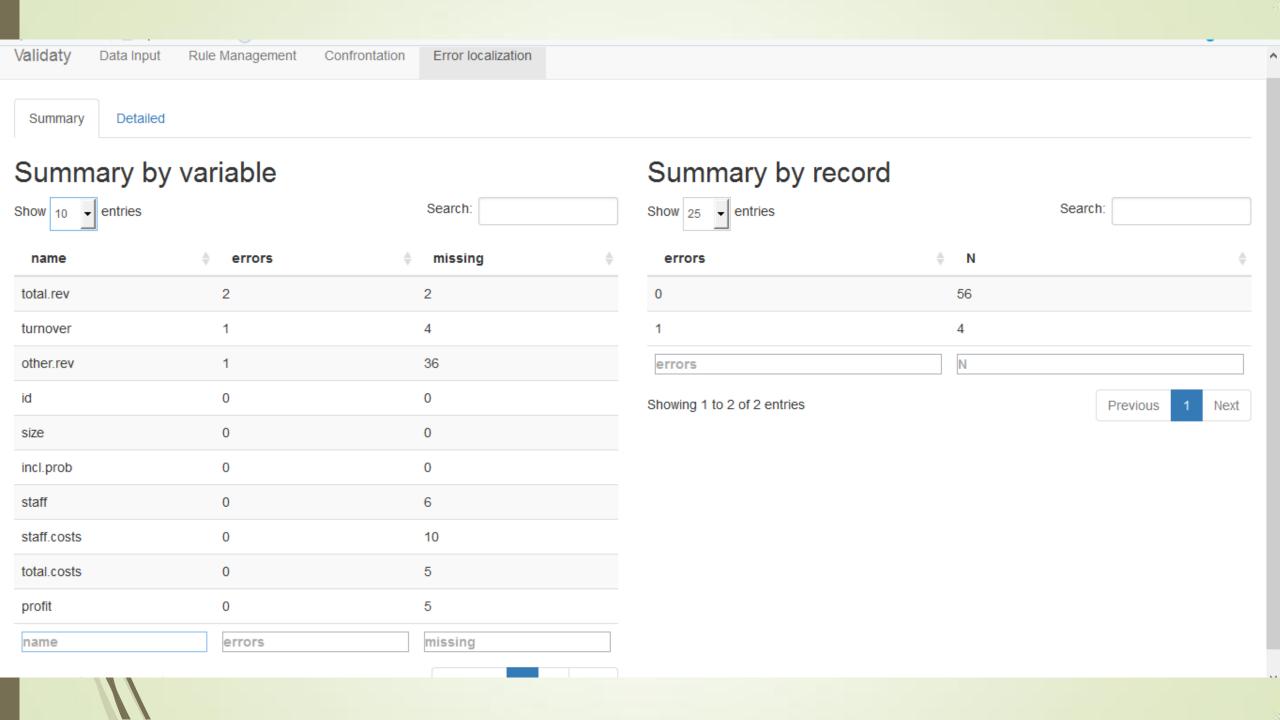
Variables not covered: id, size, incl.prob, staff.costs, total.costs, profit, vat

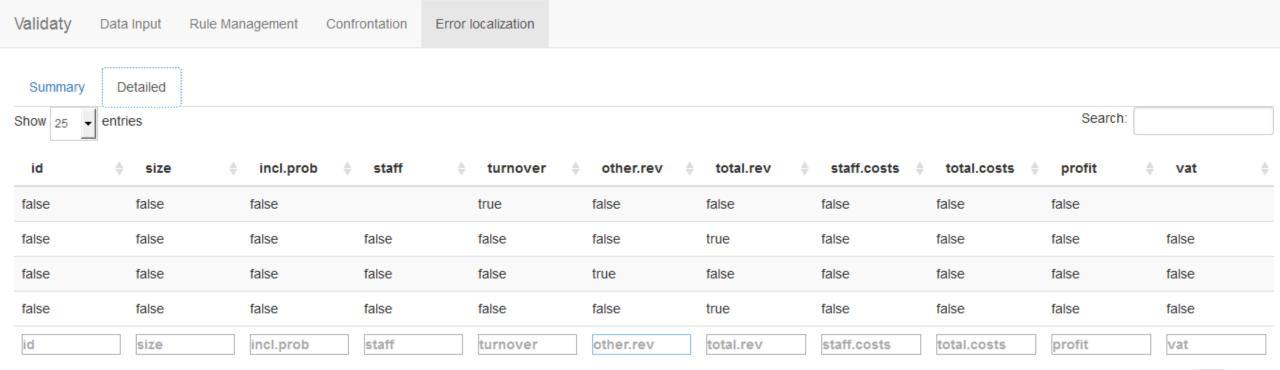












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