



boosted by wiki

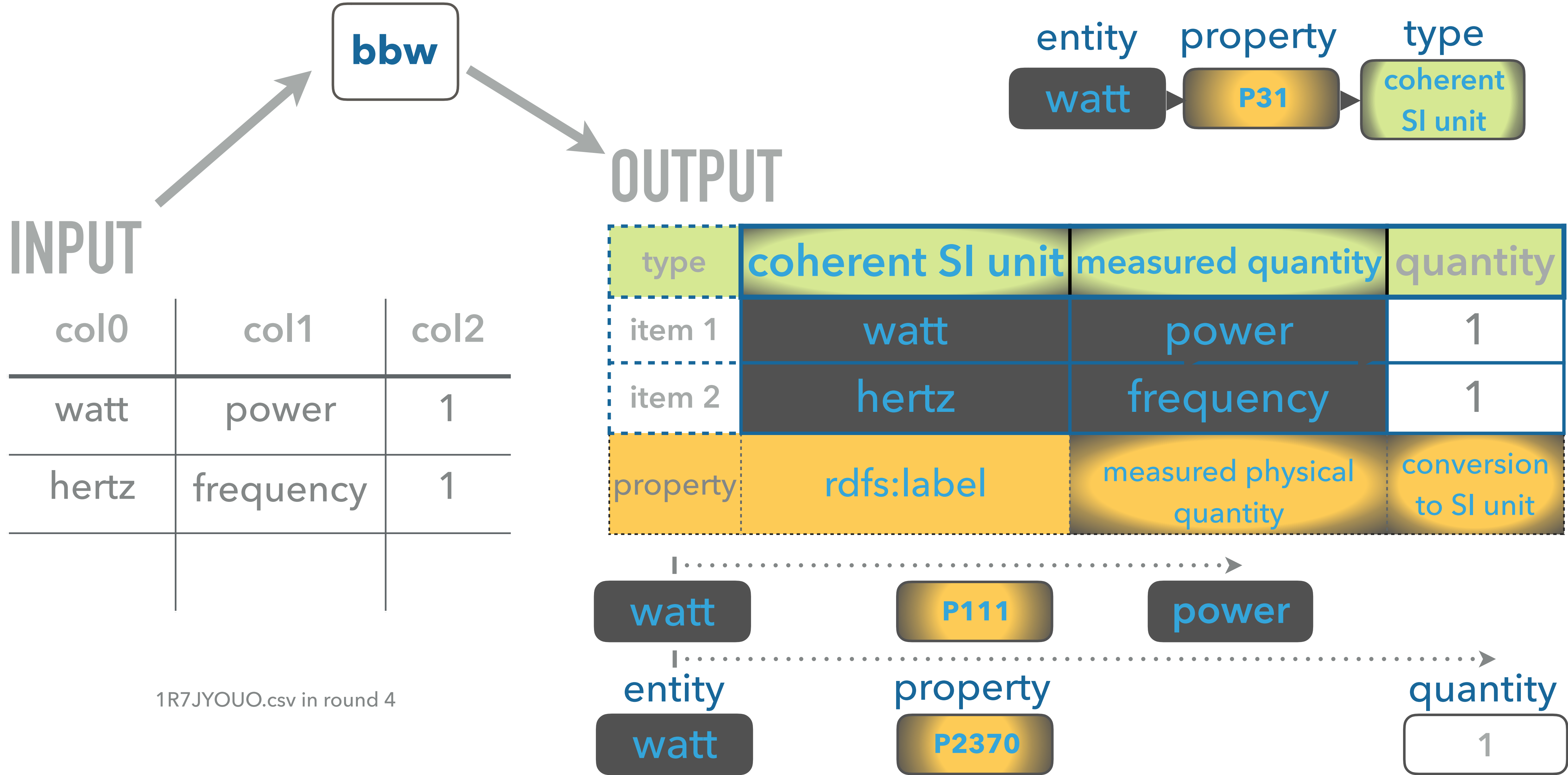
bbw:

Matching CSV to Wikidata via Meta-lookup

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Meta-lookup

lookup over many search and metasearch engines



Contextual matching

matching an Item using the at least two features

hertz + frequency = hertz

herzt + coherent SI unit = hertz

herzt + P111 frequency = hertz

P2370 1

7-STEPS WORKFLOW

Step 1:
Preprocessing

Steps 2-6:
Lookup-Matching

Step 7:
Postprocessing

`ftfy.clean_text()`

`predict 4 datatypes`

Meta-lookup

Matching

a few Entities,
Properties and Types

most frequent Entity

most frequent Property

common Type via
`gas:service`

RESULTS, DISCUSSION AND CONCLUSIONS

Round	CPA			CTA			CEA		
	F1	P	Po	AF1	AP	Po	F1	P	Po
1	-	-	-	-	-	-	-	-	-
2 (<1 st deadline)	-	-	-	-	-	-	-	-	-
2 (>1 st deadline)	0.991	0.992	4	0.914	0.929	7	0.892	0.960	10
2 (>2 nd deadline)	0.992	0.994	3	0.964	0.978	6	0.944	0.981	7
3 (<deadline)	0.949	0.957	4	0.960	0.966	4	0.954	0.974	5
3 (>deadline)	0.989	0.994	3	0.971	0.974	4	0.976	0.985	4
4	-	-	-	-	-	-	-	-	-

F1 is F1 score

P is Precision

AF1 is approximate
F1 score

AP is approximate
Precision

Po is position



0,994

- * We used multiple APIs (without the Wikidata dump files)
- * Meta-lookup resolves even difficult mistakes in a word
- * Contextual matching gives F1-score above 0.97 in all tasks

