Empowering Natural Language to Visualization Neural Translation using Synthesized Benchmarks

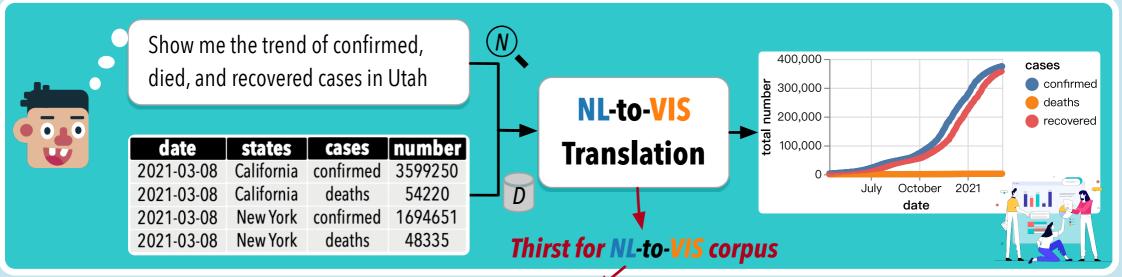


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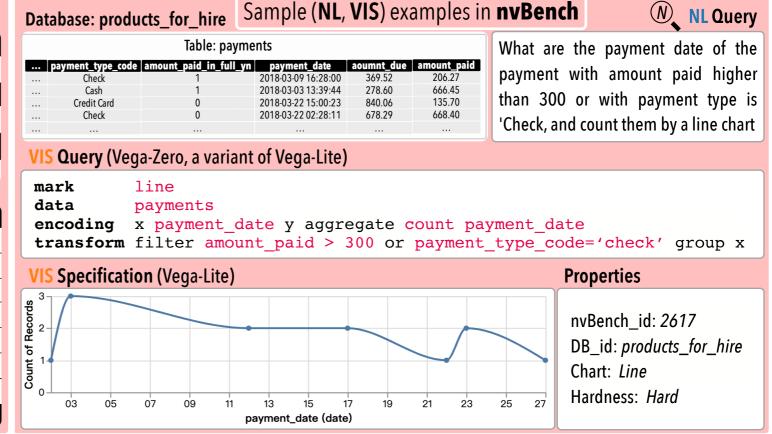


Natural Language to Visualization Translation



nvBench: NL-to-VIS Benchmark

	Ç	Statisti	cs of nvBe	ench		
#-Domains		5 #-	Databases	#-Table	S	
105			153	780		
Categorical (%)		%) Tei	mporal (%)	Quantitive (%)		
68.78 %			11.58 %	19.64 %		
	Avg (#-Rows)		ax (#-Rows) Min (#-Rows		ws)	
	1309.65		183,978	1		
	VIS Types		#-VIS	#-(NL, V	IS)	
	Bar Chart		5523	1940	7	
Pie Chart		520	1750			
	Line Chart		380	1562		
Scatter Chart		226	1041			
Stacked Bar		359	1172			
	Grouping Line		72	271		
Grouping Scatter		127	547			
All Types		7247	2575)		



Synthesizing nvBench from NL-to-SQL Benchmarks



nvBench: https://github.com/TsinghuaDatabaseGroup/nvBench