

In-Process Analytical Data Management with DuckDB





If your data fits in memory there is no advantage to putting it in a database: it will only be slower and more frustrating.

"Databases are frustrating"





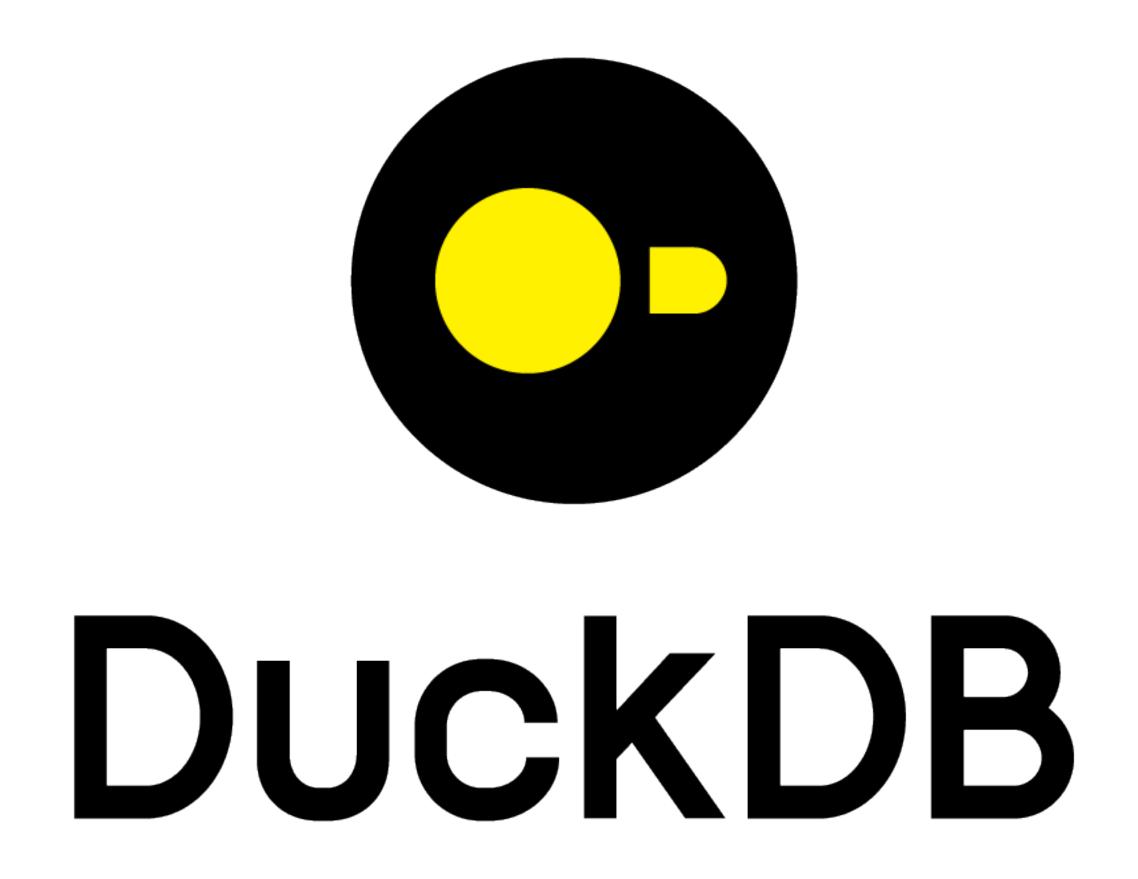
- Installation
- Maintenance
- Data Transfer



- Query Optimization
- Persistence
- Updates & Consistency
- Efficiency & Parallelism











Simple



In-Process





No Dependencies

```
install.packages("duckdb")
pip install duckdb
```



Feature-Rich







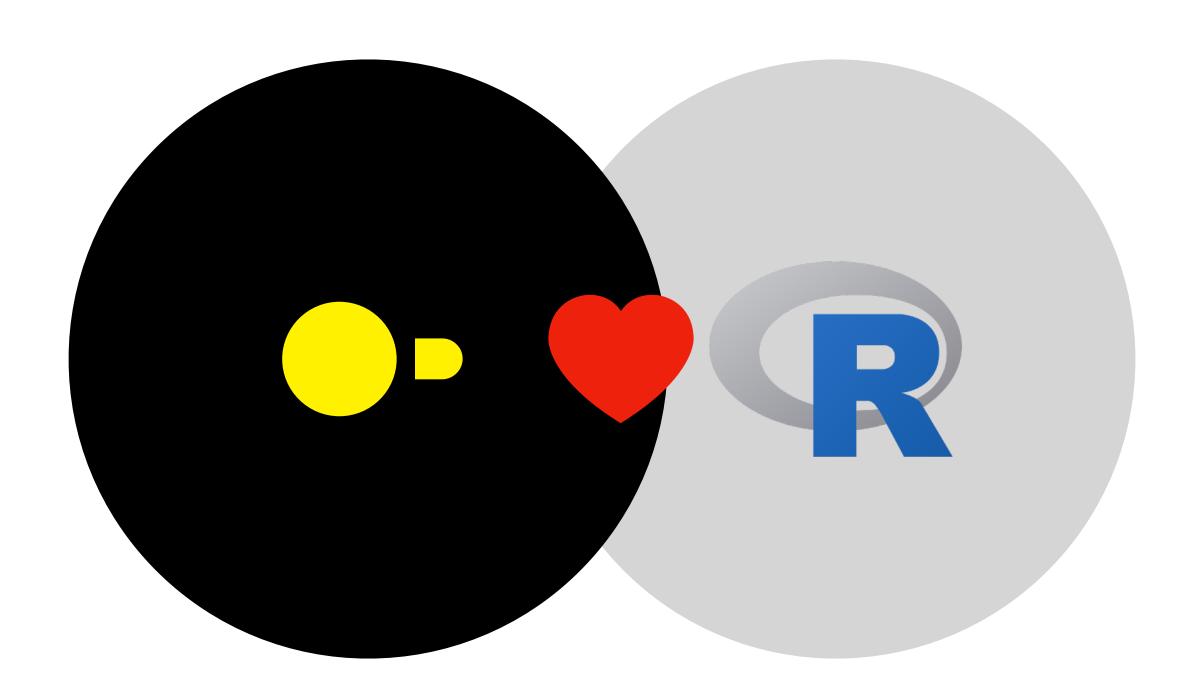


Uptime: 5 days, 2

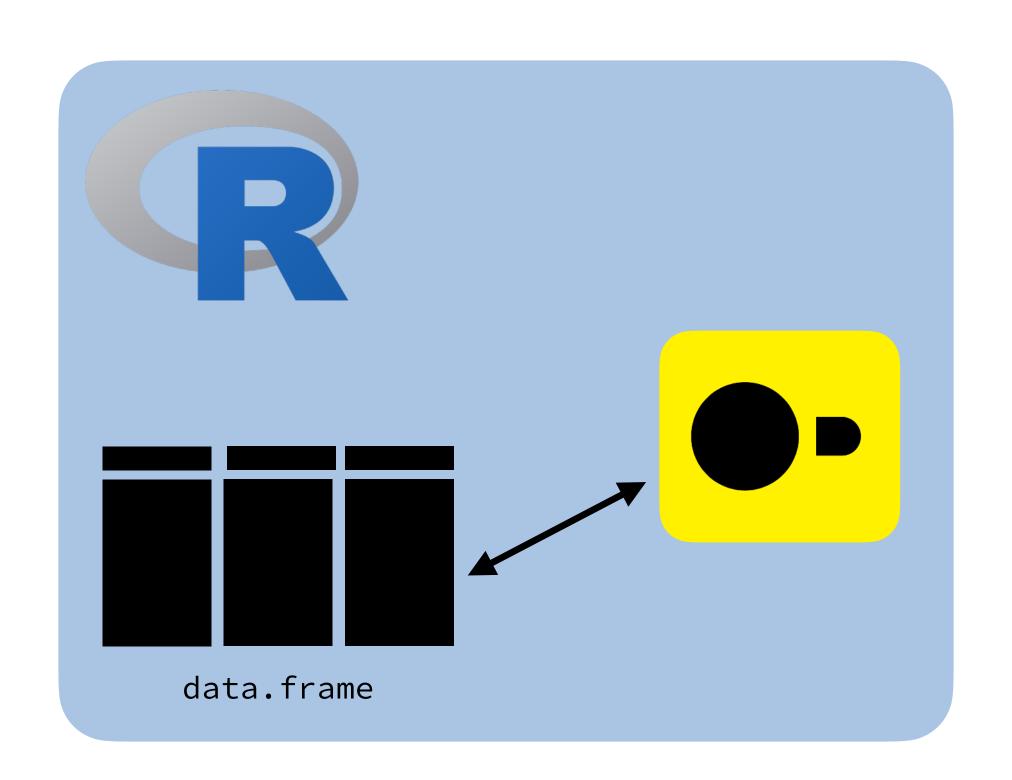
USER	PRI	NI	VIRT	RES	S	CPU%▽MEM%		TIME+	Command
hannes	25	0	392G	1418M	?	933.5	2.2	3:37.00	duckdb
hannes	24		391G	139M	?	3.3	0.2	0:42.00	/System/Applications/Util
hannes	17		390G	34512	?	2.1	0.1	0:00.00	/System/Library/CoreServi
hannes	24		1 523G	487M	?	2.0	0.7	0:20.00	/Applications/Discord.app
hannes	17		389G	25504	?	0.9		5:18.00	/System/Library/CoreServi
hannes	25		390G	12 288	R	0.9		0:00.00	htop
hannes	8		390G	48416	?	0.3	0.1	0:01.00	/Applications/Superhuman.
hannes	17		390G	31 312	?	0.2		2:07.00	/System/Library/CoreServi
hannes	17		391G	36672	?	0.2	0.1	1:30.00	/Applications/Rectangle.a
hannes	8		1 515G		?	0.2	0.4	0:05.00	/Applications/Superhuman.
	hannes hannes hannes hannes hannes hannes hannes hannes	hannes25hannes24hannes17hannes17hannes15hannes8hannes17hannes17hannes17hannes17	hannes 25 0 hannes 24 0 hannes 17 0 hannes 17 0 hannes 25 0 hannes 8 0 hannes 17 0 hannes 17 0 hannes 17 0	hannes250392Ghannes240391Ghannes170390Ghannes2401523Ghannes170389Ghannes250390Ghannes80390Ghannes170390Ghannes170391G	hannes250392G1418Mhannes240391G139Mhannes170390G34512hannes2401523G487Mhannes170389G25504hannes250390G12288hannes80390G48416hannes170390G31312hannes170391G36672	hannes250392G1418M?hannes240391G139M?hannes170390G34512?hannes2401523G487M?hannes170389G25504?hannes250390G12288Rhannes80390G48416?hannes170390G31312?hannes170391G36672?	hannes250392G1418M?933.5hannes240391G139M?3.3hannes170390G34512?2.1hannes2401523G487M?2.0hannes170389G25504?0.9hannes250390G12288R0.9hannes80390G48416?0.3hannes170390G31312?0.2hannes170391G36672?0.2	hannes 25 0 392G 1418M ? 933.5 2.2 hannes 24 0 391G 139M ? 3.3 0.2 hannes 17 0 390G 34512 ? 2.1 0.1 hannes 24 0 1523G 487M ? 2.0 0.7 hannes 17 0 389G 25504 ? 0.9 0.0 hannes 25 0 390G 12288 R 0.9 0.0 hannes 8 0 390G 48416 ? 0.3 0.1 hannes 17 0 390G 31312 ? 0.2 0.0 hannes 17 0 391G 36672 ? 0.2 0.1	hannes 25 0 392G 1418M ? 933.5 2.2 3:37.00 hannes 24 0 391G 139M ? 3.3 0.2 0:42.00 hannes 17 0 390G 34512 ? 2.1 0.1 0:00.00 hannes 24 0 1523G 487M ? 2.0 0.7 0:20.00 hannes 17 0 389G 25504 ? 0.9 0.0 5:18.00 hannes 25 0 390G 12288 R 0.9 0.0 0:00.00 hannes 8 0 390G 48416 ? 0.3 0.1 0:01.00 hannes 17 0 390G 31312 ? 0.2 0.0 2:07.00 hannes 17 0 391G 36672 ? 0.2 0.1 1:30.00



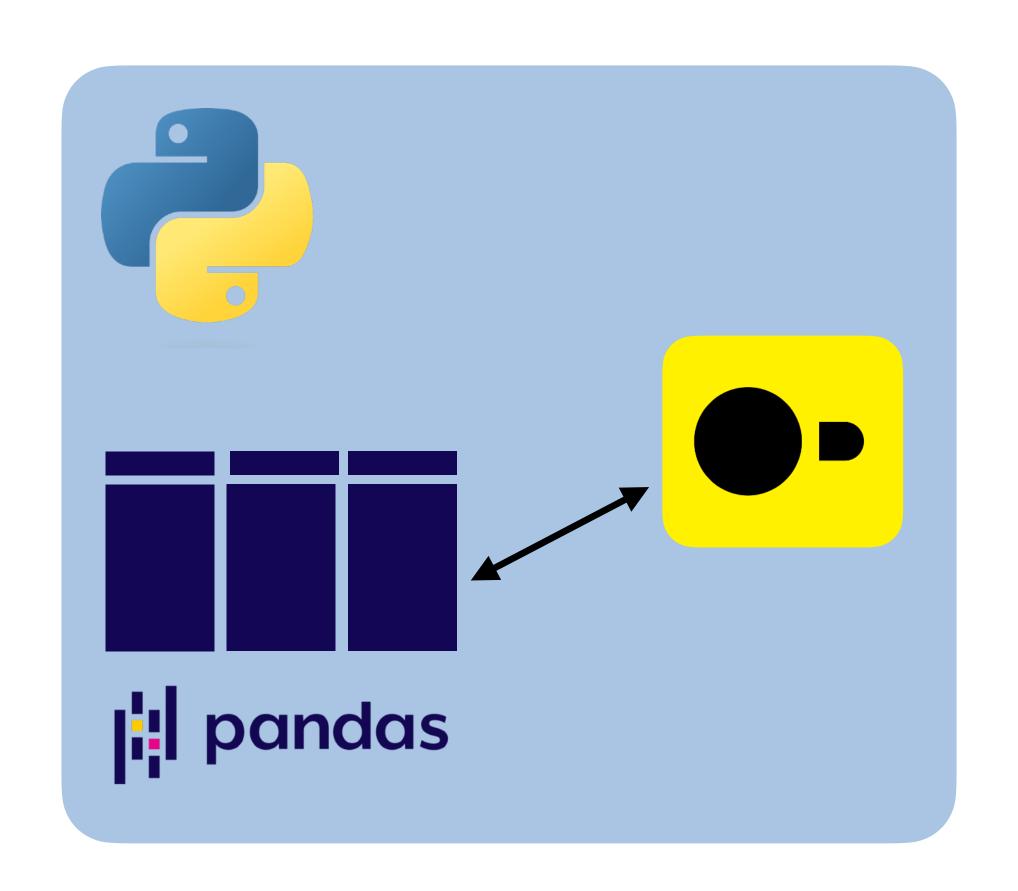














Code: http://tinyurl.com/duckdbpositconf

DuckDB



- An in-process analytical data management system
 - Simple, Feature-Rich, Fast, Free. Choose all four.
- Deeply integrated with R
- Questions?

