



XTDB v2: An intro

What is XTDB?

- document-oriented
- dynamic
- bitemporal

document oriented and dynamic

```
1 (xt/put :posts {:xt/id 1
2               :post "Hello from Clojure meetup!"
3               :comments ["Awesome!" ]})
4
5 (xt/put :posts {:xt/id 2
6               :post "Hello from Lisp meetup!"})
```

```
1 SELECT posts.post, posts.comments
2 FROM posts
```

```
1 [{:post "Hello from Lisp meetup!"}
2  {:post "Hello from Clojure meetup!",
3   :comments ["Awesome!" ]}]
```

bitemporal

product_prices

id	price
banana	1.0
apple	2.0

bitemporal

product_prices

id	price	created_at
banana	1.0	2023-12-12
apple	2.0	2023-12-12

bitemporal

product_prices

id	price	created_at	updated_at
banana	1.0	2023-12-12	2023-12-12
apple	3.0	2023-12-12	2023-12-13

bitemporal

product_prices

id	version	price	created_at
banana	1	1.0	2023-12-12
apple	1	2.0	2023-12-12
apple	2	3.0	2023-12-13

bitemporal

product_prices

id	price	created_at	updated_at
banana	1.0	2023-12-12	2023-12-12
apple	3.0	2023-12-12	2023-12-13

product_prices_history

id	price	created_at	superseded_at
apple	2.0	2023-12-12	2023-12-13

bitemporal

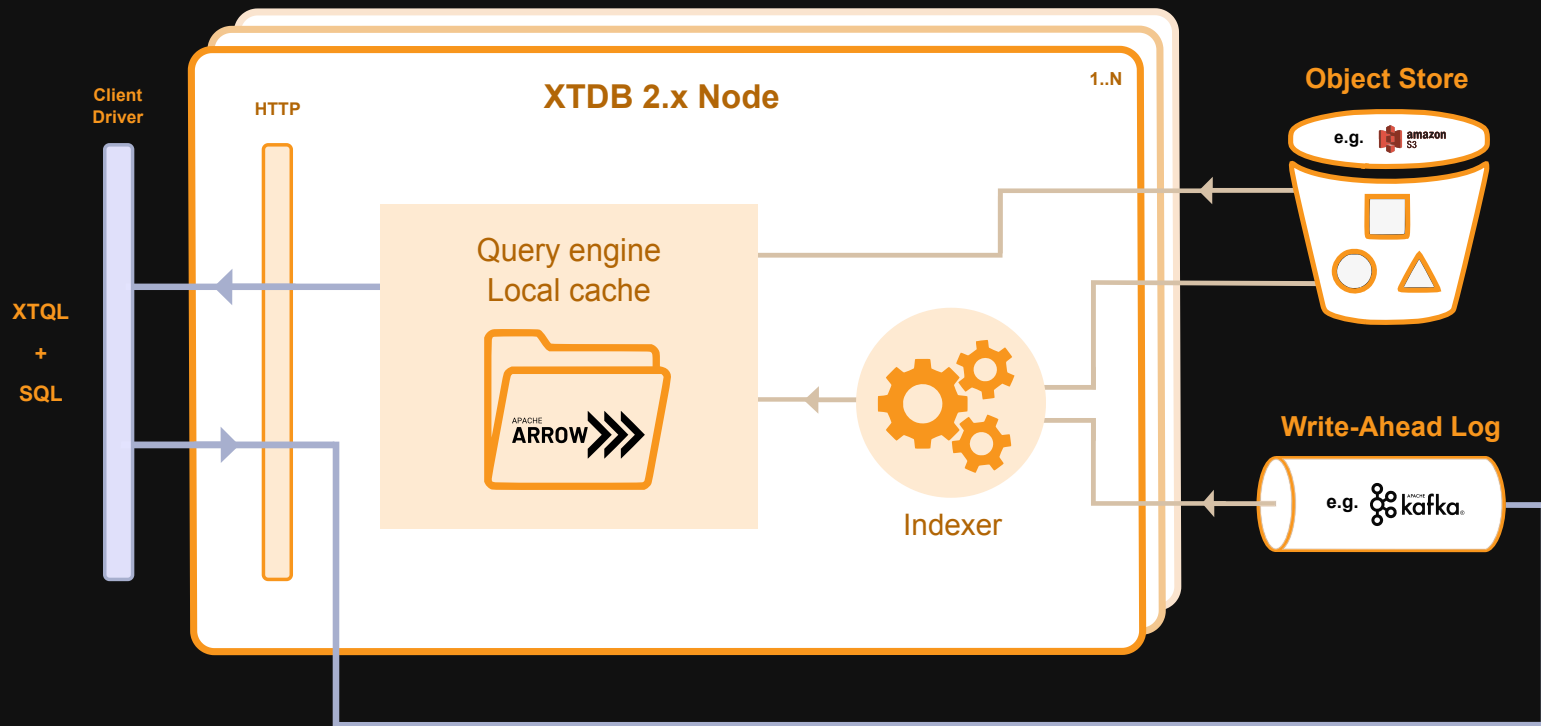
```
1 SELECT product.xt$id, product.price
2 FROM product
3 FOR ALL VALID_TIME
4 FOR ALL SYSTEM_TIME
5 WHERE product.xt$id = 'apple'
```

bitemporal

product_prices

id	price
banana	1.0
apple	2.0

Architecture



What is new?

- Full SQL:2011 support
- storage vs compute
- full bitemporal support
- A new query language XTQL

XTQL

- data oriented
- composable
- easily translates to JSON
- easy to learn

Demo time

Feedback

<https://www.xtdb.com/v2>

<https://discuss.xtdb.com/>