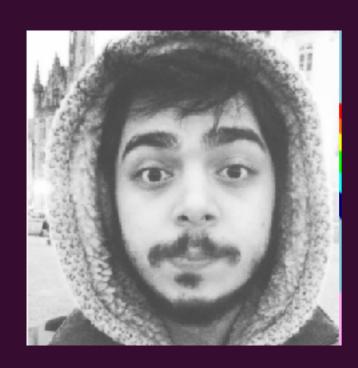
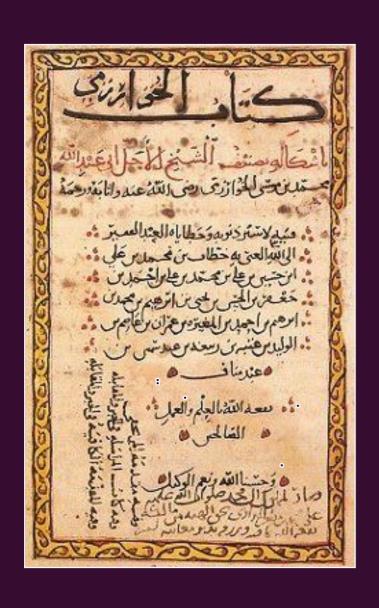


fantezi kod
common algebraic
structures



fatih erikli freelance software developer

An algebra is a set of values, a set of operators that it is closed under and some laws it must obey.



780 - 8. century Al-Khwārizmī's al-Kitāb al-muḥtasar fī ḥisāb al-ǧabr wa-l-muqābala An algebra is a set of values, a set of operators that it is closed under and some laws it must obey.

it's written in one of the old Persian language that I'm not able to understand it but it's about this guy

https://en.wikipedia.org/wiki/Muhammad_ibn_Musa_al-Khwarizmi

and language is probably is this

https://en.wikipedia.org/wiki/Khwarezmian_language

people are not speaking this language anymore

Each Fantasy Land algebra is a separate specification. An algebra may have dependencies on other algebras which must be implemented.

github.com/fantasyland

some notations

- :: is a member of
- → function type
- → method type constructor

examples

```
true :: Boolean
fatih :: Person
42 :: Integer
string → boolean
boolean → boolean
```

algebros

Setoid

A value has a steroid must provide an equals method.

```
reflexivity
a.equals(a) == true

symmetry
a.equals(b) == b.equals(a)

transitivity
if a.equals(b) and b.equals(c)
then a.equals(c)
```

Semigroup

A value which has a Semigroup must provide a concat method.

a.concat(b)

Monoid

A value which has a Monoid must implement a Semigroup and also include an empty method.

a.empty().concat(b)

Filterable

A value which has a Filterable must provide a filter method.

a.filter(x \Rightarrow true)

Filterable

A value which has a Filterable must provide a filter method.

a.filter(x \Rightarrow true)

Functor

A value which has a Functor must provide a map method.

[].map(x
$$\Rightarrow$$
 x * 2)

Apply

A value that implements the Apply specification must also implement the Functor specification.

A value which has an Apply must provide an ap method. The ap method takes one argument.

[].ap(func)

Chain & Monad

```
chain
m.chain(f).chain(g) 
m.chain(x ⇒ f(x).chain(g))

monad
M.of(a).chain(f) 
m.chain(M.of)
```

Implementations

- Promises
- Folktale
- jQuery



Burak Can C 1:05 PM

fantasyland spec iste. ramda da fantasyland implemente ediyor(buyuk oranda), fantasyland implemente eden libraryler de birbirleriyle uyumlu calisabiliyorlar

sunumunu 2 cumlede ozetledim @fatiherikli kusra bakma 😂





Burak Can C 1:20 PM biz de ramda (fantasy ramda) ve monet kullaniyoz



Burak Can C 1:23 PM

@fatiherikli fantasyland speci algebraic abstractionlari da temel olarak ogrenmek icin guzel, ondan da bahset bence (edited)



fatiherikli.github.io