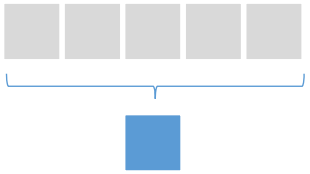
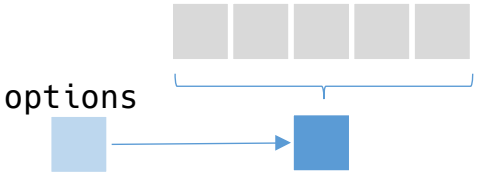
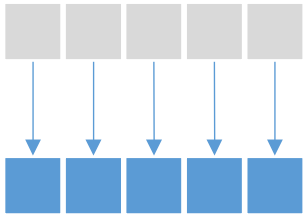
Vector operations in TDR



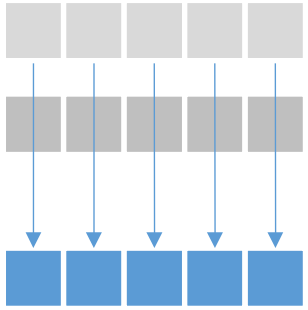
Vector
aggregation function
(unary)



Vector
aggregation function
(unary, with options)

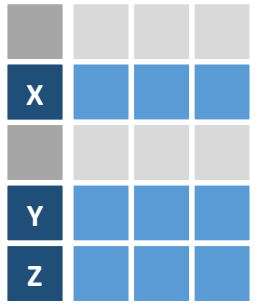


Vector
element-wise function
(unary)

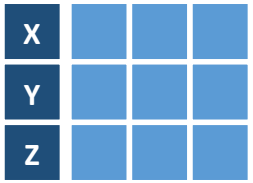


Vector
element-wise function
(binary)

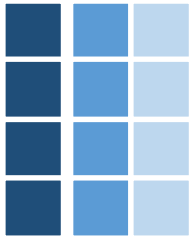
DataFrame operation in TDR (tentative)



Select variables

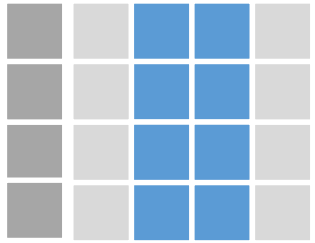


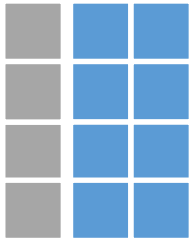
min max

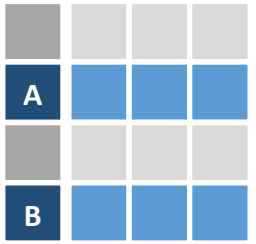


Summarize

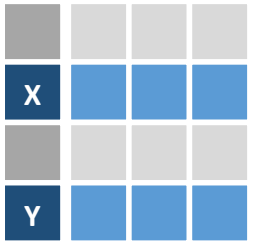
Select observations



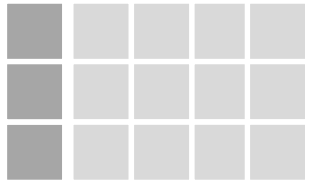


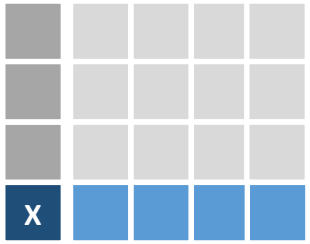


Rename keys



Add new variables





DataFrame Combine operations in TDR (tentative)

Combine data sets

a

X1	A	B	C
X2	1	2	3

b

X1	A	B	D
X3	T	F	T

Mutating joins

X1	A	B	C
X2	1	2	3
X3	T	F	NA

a.join(b, by: :x1)

(left_join)

X1	A	B	D
X3	T	F	T
X2	1	2	NA

b.join(a, by: :x1)

(right_join)

X1	A	B
X2	1	2
X3	T	F

a.inner_join(b, by: :x1)

X1	A	B	C	D
X2	1	2	3	NA
X3	T	F	NA	T

a.full_join(b, by: :x1)

Filtering joins

X1	A	B
X2	1	2

a.semi_join(b, by: :x1)

X1	C
X2	3

a.anti_join(b, by: :x1)

DataFrame Combine operations in TDR (set and binding, tentative)

Combine data sets

y

X1	A	B	C
X2	1	2	3

z

X1	B	C	D
X2	2	3	4

Set operations

X1	B	C
X2	2	3

y.intersect(z)

X1	A	B	C	D
X2	1	2	3	4

y.union(z)

X1	A
X2	1

y.set_diff(z)

Binding

X1	A	B	C	B	C	D
X2	1	2	3	2	3	4

y.bind_vector(z)

(bind_rows)

X1	A	B	C
X2	1	2	3
X1	B	C	D
X2	2	3	4

y.bind_obs(z)

(bind_cols)

DataFrame Grouping usecase in TDR (tentative)