

[before] d\_tip.top(I):

(index)	id	date	q...	total	tip	type
0	"03"	"2011-11-14T16:28:54Z"	1	300	200	"visa"
1	"12"	"2011-11-14T17:29:52Z"	1	200	100	"visa"
2	"02"	"2011-11-14T16:20:19Z"	2	190	100	"tab"
3	"01"	"2011-11-14T16:17:54Z"	2	190	100	"tab"
4	"11"	"2011-11-14T17:25:45Z"	2	200	0	"cash"
5	"10"	"2011-11-14T17:22:59Z"	2	90	0	"tab"
6	"09"	"2011-11-14T17:07:21Z"	2	90	0	"tab"
7	"08"	"2011-11-14T16:58:03Z"	2	90	0	"tab"
8	"07"	"2011-11-14T16:54:06Z"	1	100	0	"cash"
9	"06"	"2011-11-14T16:53:41Z"	2	90	0	"tab"
10	"05"	"2011-11-14T16:48:46Z"	2	90	0	"tab"
11	"04"	"2011-11-14T16:30:43Z"	2	90	0	"tab"

[before] d\_type.top(I):

(index)	id	date	q...	total	tip	type
0	"12"	"2011-11-14T17:29:52Z"	1	200	100	"visa"
1	"03"	"2011-11-14T16:28:54Z"	1	300	200	"visa"
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5	"06"	"2011-11-14T16:53:41Z"	2	90	0	"tab"
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9	"01"	"2011-11-14T16:17:54Z"	2	190	100	"tab"
10	"11"	"2011-11-14T17:25:45Z"	2	200	0	"cash"
11	"07"	"2011-11-14T16:54:06Z"	1	100	0	"cash"

[before] g\_tip.top(I):

(index)	key	value
0	0	8
1	100	3
2	200	1

[before] g\_tip.all():

(index)	key	value
0	0	8
1	100	3
2	200	1

[before] g\_type.top(I):

(index)	key	value
0	"tab"	8
1	"visa"	2
2	"cash"	2

[before] g\_type.all():

(index)	key	value
0	"cash"	2
1	"tab"	8
2	"visa"	2

[before] facts.groupAll().value(): 12  
[before] d\_tip.groupAll().value(): 12  
[before] d\_type.groupAll().value(): 12

d\_type.filter("tab") <-----

d\_tip.top(I):

(index)	id	date	q...	total	tip	type
0	"02"	"2011-11-14T16:20:19Z"	2	190	100	"tab"
1	"01"	"2011-11-14T16:17:54Z"	2	190	100	"tab"
2	"10"	"2011-11-14T17:22:59Z"	2	90	0	"tab"
3	"09"	"2011-11-14T17:07:21Z"	2	90	0	"tab"
4	"08"	"2011-11-14T16:58:03Z"	2	90	0	"tab"
5	"06"	"2011-11-14T16:53:41Z"	2	90	0	"tab"
6	"05"	"2011-11-14T16:48:46Z"	2	90	0	"tab"
7	"04"	"2011-11-14T16:30:43Z"	2	90	0	"tab"

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5	"04"	"2011-11-14T16:30:43Z"	2	90	0	"tab"
6	"02"	"2011-11-14T16:20:19Z"	2	190	100	"tab"
7	"01"	"2011-11-14T16:17:54Z"	2	190	100	"tab"

g\_tip.top(I):

(index)	key	value
0	0	6
1	100	2
2	200	0

g\_tip.all():

(index)	key	value
0	0	6
1	100	2
2	200	0

g\_type.top(I):

(index)	key	value
0	"tab"	8
1	"visa"	2
2	"cash"	2

g\_type.all():

(index)	key	value
0	"cash"	2
1	"tab"	8
2	"visa"	2

facts.groupAll().value(): 8  
d\_tip.groupAll().value(): 8  
d\_type.groupAll().value(): 12

Note: a grouping intersects the crossfilter's current filters, **except for the associated dimension's filter**. Thus, group methods consider only records that satisfy every filter except this dimension's filter. So, if the crossfilter of payments is filtered by type and total, then group by total only observes the filter by type.