Final Project

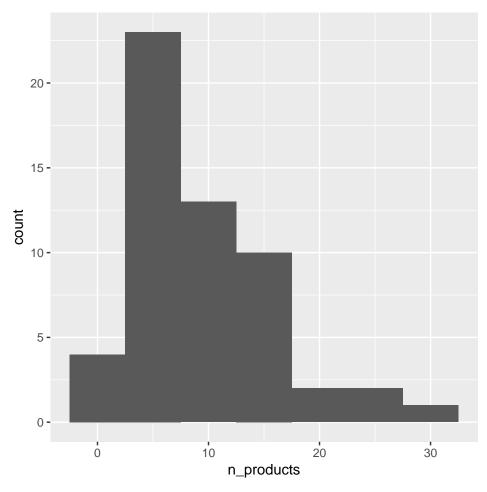
Begona Dobon July 4, 2017

Contents

1	Is t	he order of the products in a basket dependent of reordering?
	1.1	What is the average number of products in an order?
	1.2	What proportion of products in a basket are reordered?
	1.3	How many of the first 8 products in a basket are reordered?
	1.4	Do reordered products tend to be added first in the baskets?
2	Tin	ne between orders
_		How many days happened between orders?
		How many days happened between orders? Taking into account only users that have used the
		app at least twice

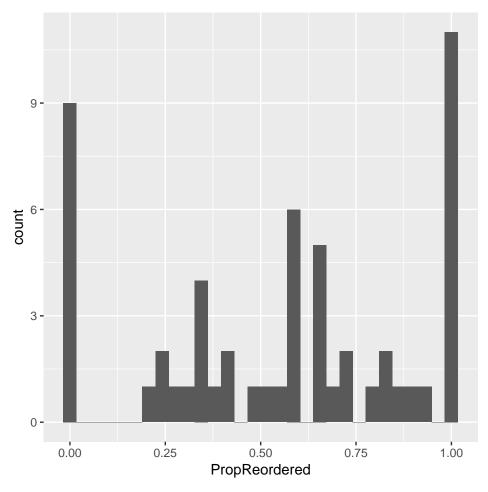
1 Is the order of the products in a basket dependent of reordering?

1.1 What is the average number of products in an order?



An order has on average 9.07 products.

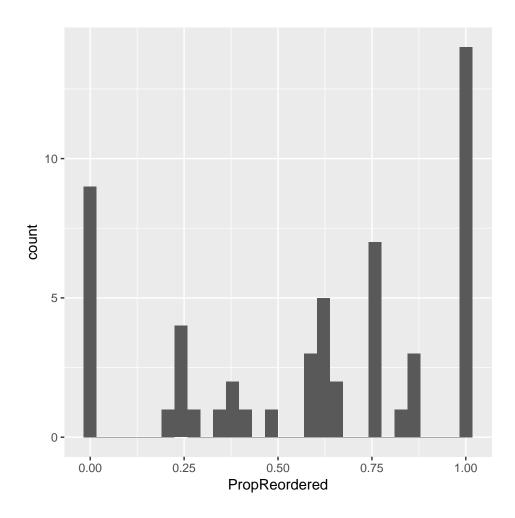
1.2 What proportion of products in a basket are reordered?



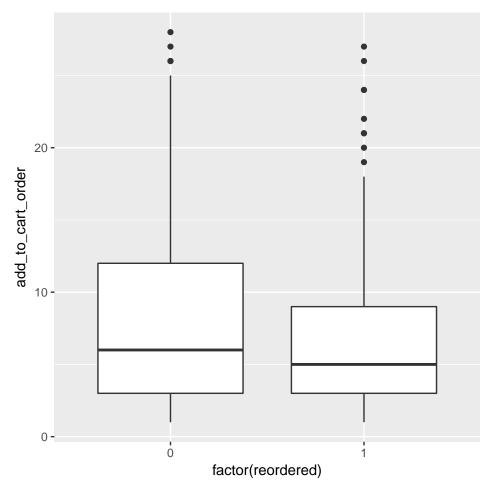
On average, 55.63 % of the products of a basket have been bougth previously.

An order has a median size of 8. I will use that value as a cutoff of the first items added to an order.

1.3 How many of the first 8 products in a basket are reordered?



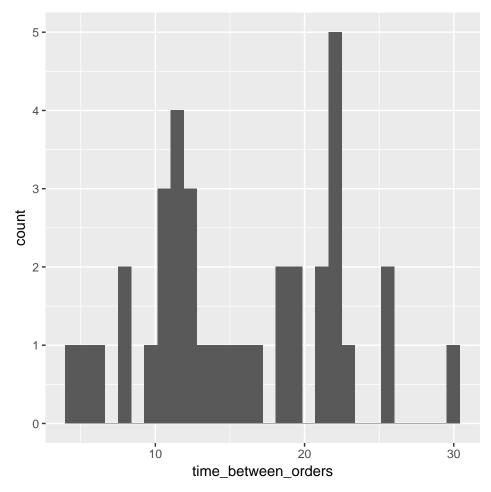
1.4 Do reordered products tend to be added first in the baskets?



Reordered products seem to be added first in the orders.

2 Time between orders

2.1 How many days happened between orders?



On average, a user makes an order every 16 days.

2.2 How many days happened between orders? Taking into account only users that have used the app at least twice.

```
days_between_orders %>%
filter(n_orders >=2) %>%
ggplot(aes(time_between_orders)) + geom_histogram() +
scale_y_continuous(label=scales::comma)
```

