**Exp1**

**Mutate:**

rt = exp1\_key.rt – mat\_dur

correct rate (the % of exp1\_key.corr = 1 of all exp1 rows before filtering)

**Filter:**

exp\_num = 1

mat\_dur != “-”

rt >= 0

only the correct answers (exp1\_key.corr = 1)

**Plot:**

rt~prof

correct rate ~ prof

**Group by:**

lang & type

4 groups

Group1: lang = en & type = na

Group2: lang = es & type = na

Group3: lang = es & type = f0u

Group4: lang = es & type = f0c

Note: Theoretically the rt trend is rt(Group1)<rt(Group2)<rt(Group4)<rt(Group3) (This comparison by group is very important, if possible I guess this can be an additional plot by itself, Y-axis= rt and X-axis=Group)

Other grouping

correct\_key

**Exp2**

**Mutate:**

Column O into O1 and O2 (maybe O3+ if there’s more entry)

rt1 = O2-O1

rt2 = O2 - mat\_dur

discard O3+

correct rate = (count of exp2 rows after filtering / before filtering)

**Filter**

mat\_dur != “-”

rt2>=0

if cs=1, exp2\_key.key = [lshift, rshift]

if cs=None, exp2\_key.key = [lshift]

**Plot**

rt1~prof

rt2~prof

correct rate ~ prof

**Group by:**

3 groups

Group2: lang = es & type = na

Group3: lang = es & type = f0u

Group4: lang = es & type = f0c

Note: Theoretically the rt trend is rt(Group2)<rt(Group4)<rt(Group3) (This comparison by group is very important, if possible I guess this can be an additional plot by itself, Y-axis= rt and X-axis=Group)