

Binary Choice Analysis

Data shown for:

date

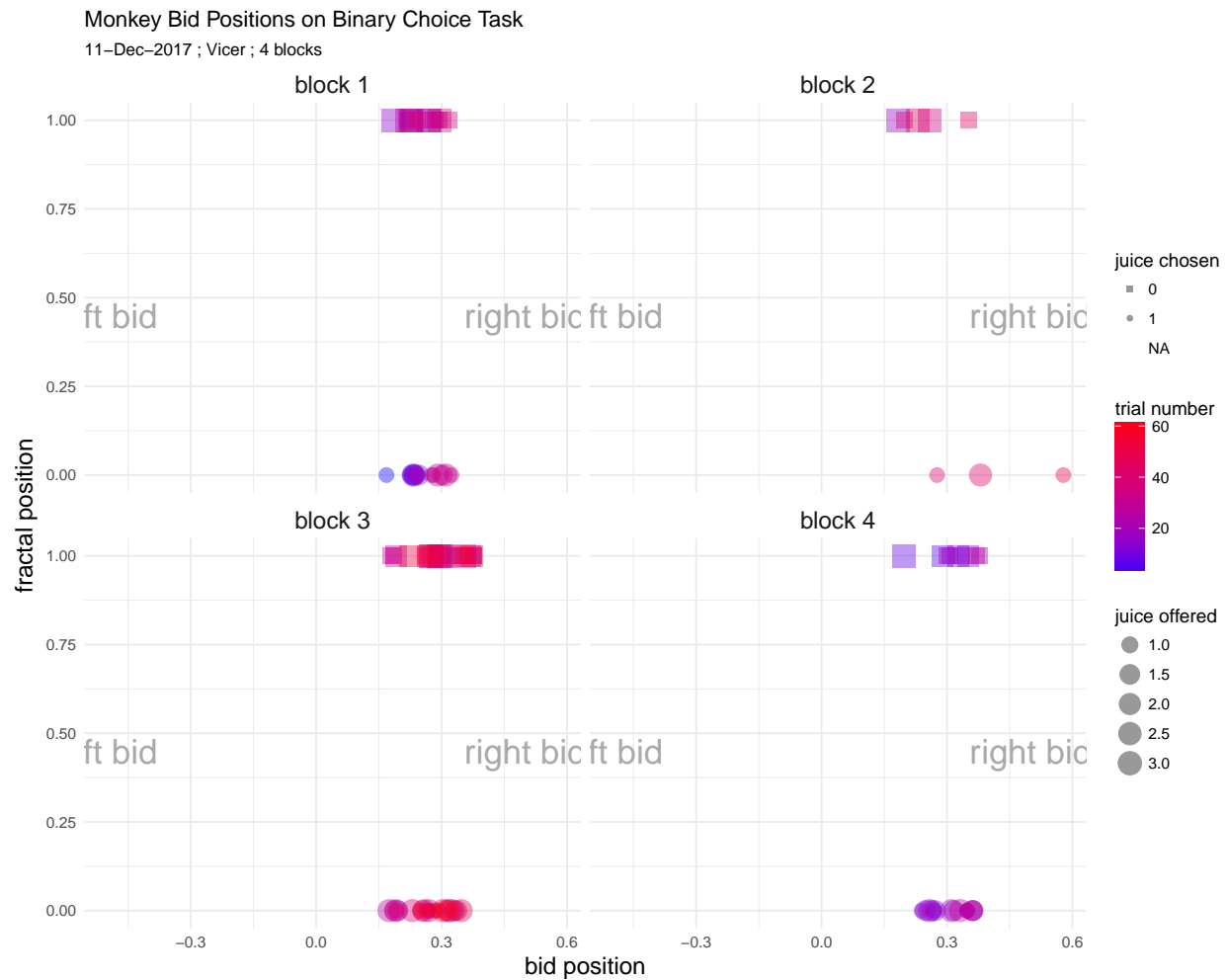
[1] "11-Dec-2017"

monkey

[1] "Vicer"

#plot p1

p1

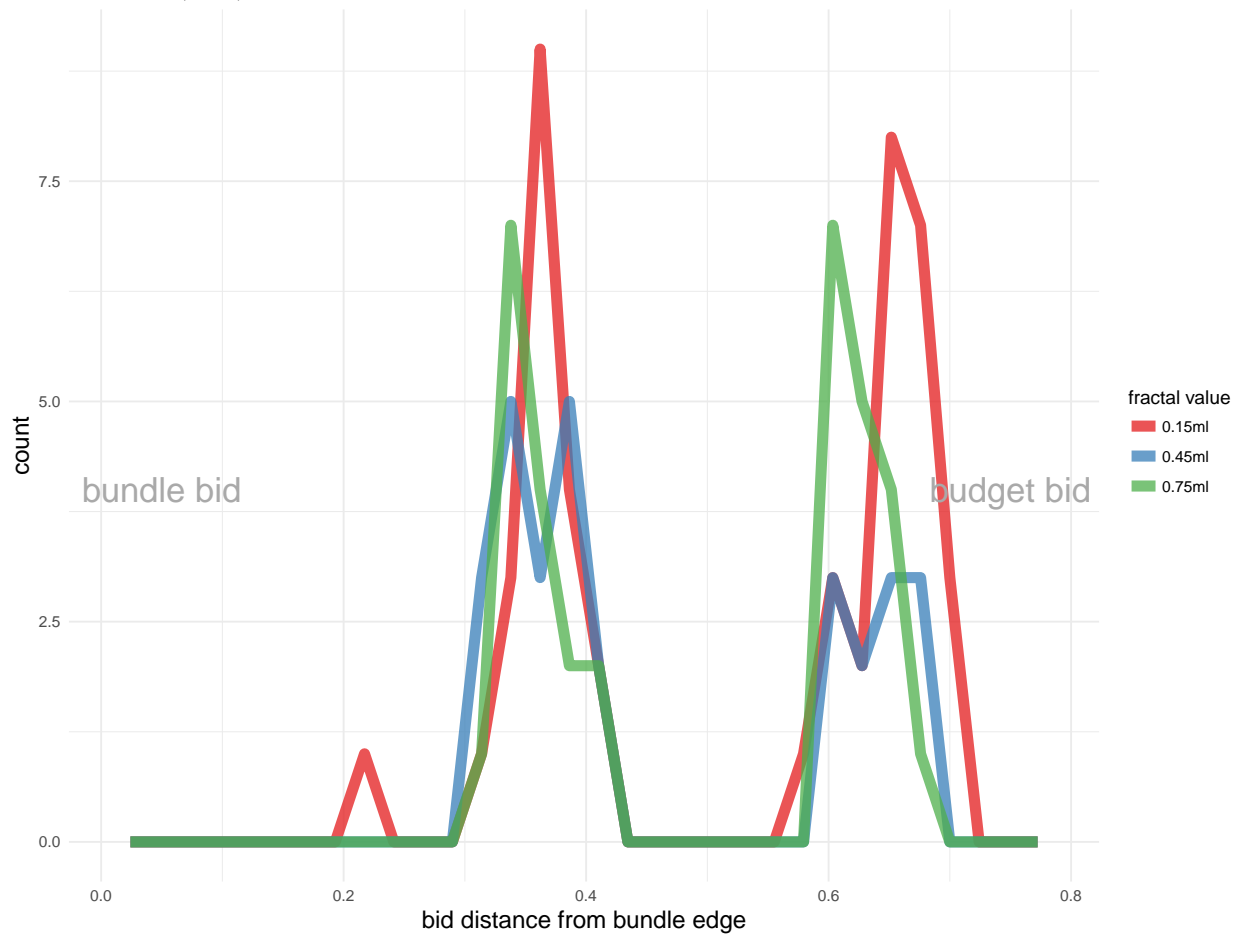


Graph of choices for each block. Circles indicate bid selecting the bundle, squares are bid selecting the budget. A fractal bid position of 1 means that the bundle is on the left hand side of the screen. Bids range from -1 (all the way to the left) to 1 (all the way to the right)

#plot p2
p2

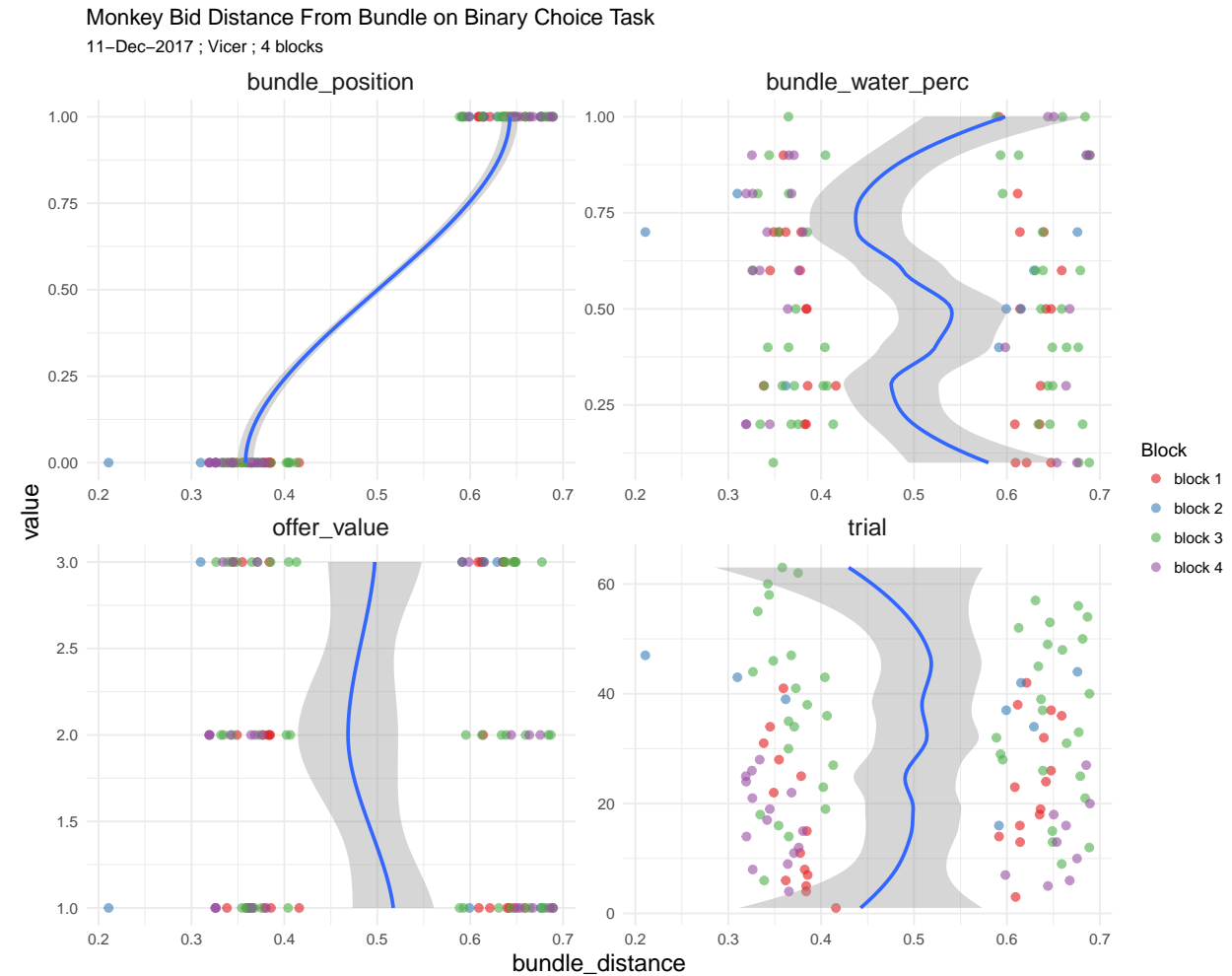
Monkey Bid Distance From Bundle on Binary Choice Task

11-Dec-2017 ; Vicer ; 4 blocks



Graph showing all choices and how far away they are from the edge of the screen on the bundle side. 0 indicates full movement to the bundle side of the screen and 1 represent full movement away. Count is over all blocks for all values of the fractal (in ml of juice).

#plot p3
p3



Graphs of various factors against the distance from the bundle side of the screen the monkey bids.

A bundle position of 1 indicates that the bundle is on the left hand side of the screen. A bundle water percentage of 1 indicates that the bundle contains no water [CHECK THIS- PRETTY SURE ITS CORRECT], whereas zero means it contains the full 1.2ml. Offer values of 1, 2, and 3 represent 0.15ml, 0.45ml, and 0.75mls of apple and mango juice (150ml in 950ml of water).

Fit lines use LOESS method.

```

#generate a model of likelihood to bid for the fractal dependent on it's position,
#value and associated water
model <- glm(data = task_data,
             fractal_bid ~ bundle_position + bundle_water_perc + offer_value + trial,
             family = "binomial")

#summarise the parameters
summary(model)

```

```

##
## Call:
## glm(formula = fractal_bid ~ bundle_position + bundle_water_perc +
##      offer_value + trial, family = "binomial", data = task_data)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -2.409e-06 -2.409e-06  2.409e-06  2.409e-06  2.409e-06
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)    2.657e+01  1.330e+05  0.000    1.000
## bundle_position -5.313e+01  6.938e+04 -0.001    0.999
## bundle_water_perc -1.892e-11  1.264e+05  0.000    1.000
## offer_value      9.386e-12  4.116e+04  0.000    1.000
## trial           1.375e-12  2.204e+03  0.000    1.000
##
## (Dispersion parameter for binomial family taken to be 1)
##
##      Null deviance: 1.4691e+02  on 105  degrees of freedom
## Residual deviance: 6.1497e-10  on 101  degrees of freedom
##      (94 observations deleted due to missingness)
## AIC: 10
##
## Number of Fisher Scoring iterations: 25

```