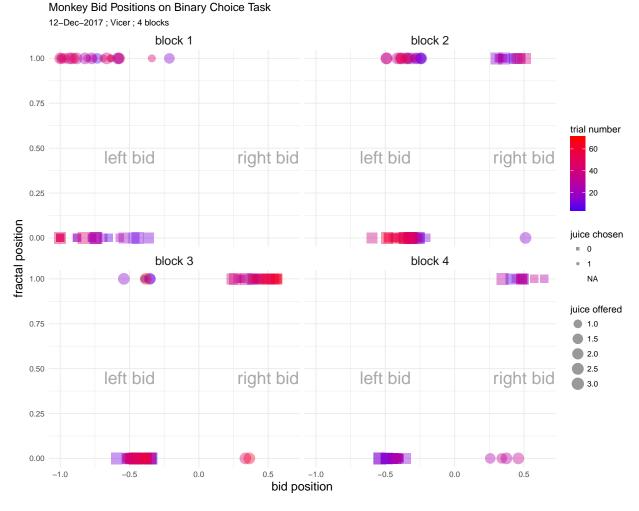
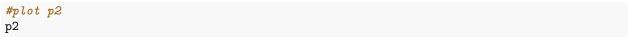
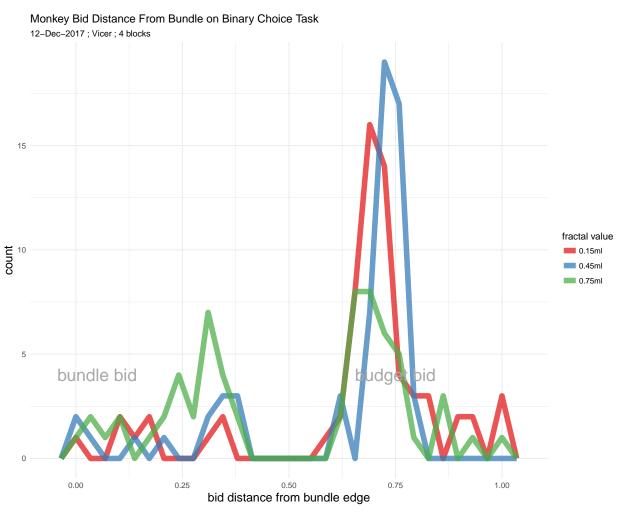
Binary Choice Analysis

Data shown for: date ## [1] "12-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)



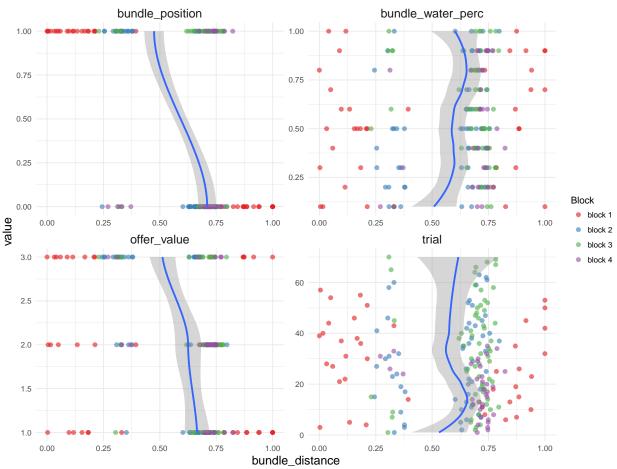


Graph showing all choices and how far away they are from the edge of the screen on the bundle side. 0 indicates full movement to the bundle side of the screen and 1 represent full movement away. Count is over all blocks for all values of the fractal (in ml of juice).





12-Dec-2017 ; Vicer ; 4 blocks



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,</pre>
             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
##
                     Median
                 1Q
                                   3Q
                                           Max
## -1.7910 -0.5672 -0.2462
                               0.5399
                                        2.3272
##
## Coefficients:
##
                     Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                     -4.554428
                                 0.945458 -4.817 1.46e-06 ***
## bundle position
                                           5.921 3.20e-09 ***
                     2.966572
                                 0.501037
## bundle_water_perc -1.688564
                                 0.760160 -2.221
                                                    0.0263 *
## offer value
                     1.183203
                                 0.286665
                                           4.127 3.67e-05 ***
## trial
                     0.002322
                                           0.205
                                 0.011304
                                                    0.8373
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
##
       Null deviance: 220.22 on 191 degrees of freedom
## Residual deviance: 147.57 on 187 degrees of freedom
     (33 observations deleted due to missingness)
## AIC: 157.57
##
```

Number of Fisher Scoring iterations: 5