# Adjs Conc-Abs: Graphs for Accuracy

### morgan moyer

2025-03-26

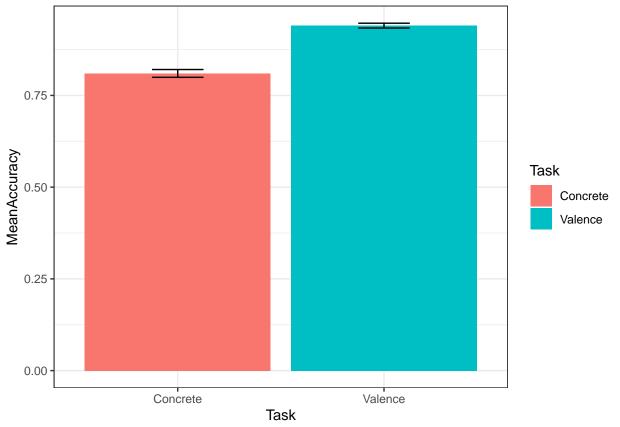
```
table(d$Task,d$Label)
##
##
              test_conc test_val
                    4800
##
     Concrete
##
     Valence
                             4800
print(unique(d$Word))
    [1] "rusted"
                     "mindful"
                                  "freezing"
                                              "disloyal"
                                                           "soulless"
                                                                        "evil"
##
   [7] "starry"
                     "female"
                                              "hairy"
                                                           "crappy"
                                                                        "lovable"
                                 "headless"
## [13] "pleasant"
                     "bloody"
                                  "pregnant"
                                              "newborn"
                                                           "human"
                                                                        "honest"
## [19] "worthless" "possible"
                                 "divine"
                                              "dirty"
                                                           "toothless" "bloodshot"
## [25] "heartless" "thorny"
                                 "handmade"
                                              "lilac"
                                                           "thankful"
                                                                       "blooming"
## [31] "sunny"
                     "helpful"
                                 "orange"
                                              "splendid"
                                                           "awful"
                                                                       "wrinkled"
## [37] "stupid"
                     "sexist"
                                 "sensible"
                                              "sinful"
Summary Stats
agr <- d %>%
  group_by(Task) %>%
  summarize(MeanAccuracy = mean(Accuracy),
            SD = sd(Accuracy))
print(agr)
## # A tibble: 2 x 3
     Task
              MeanAccuracy
     <chr>>
                      <dbl> <dbl>
                      0.81 0.392
## 1 Concrete
## 2 Valence
                      0.940 0.237
print(unique(d$Word))
    [1] "rusted"
                                              "disloyal"
                                                                        "evil"
                     "mindful"
                                 "freezing"
                                                           "soulless"
   [7] "starry"
                     "female"
                                 "headless"
                                              "hairy"
                                                           "crappy"
                                                                        "lovable"
## [13] "pleasant"
                     "bloody"
                                 "pregnant"
                                              "newborn"
                                                           "human"
                                                                        "honest"
## [19] "worthless" "possible"
                                 "divine"
                                              "dirty"
                                                           "toothless" "bloodshot"
## [25] "heartless" "thorny"
                                  "handmade"
                                              "lilac"
                                                           "thankful"
                                                                        "blooming"
## [31] "sunny"
                     "helpful"
                                 "orange"
                                              "splendid"
                                                           "awful"
                                                                       "wrinkled"
## [37] "stupid"
                     "sexist"
                                 "sensible"
                                              "sinful"
```

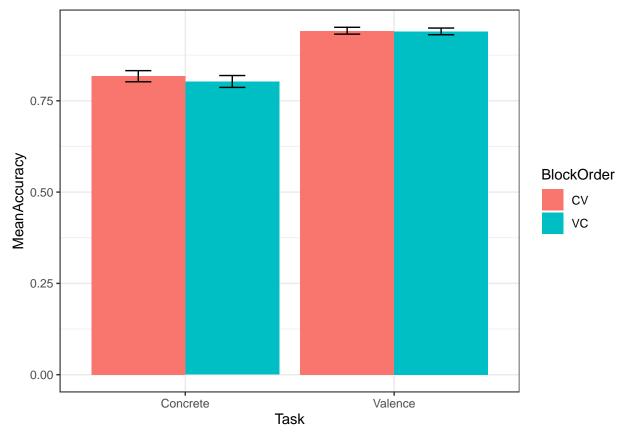
### Graph Accuracy by Word

Values for valence/concreteness were gathered/normed first from Warriner et al and Brysbaert et al. From those studies, we can establish what an Accurate response is.

A response is accurate (coded as 1) if the participant response was consistent with the norming study; innacurate (or 0) otherwise.

### Overall Accuracy

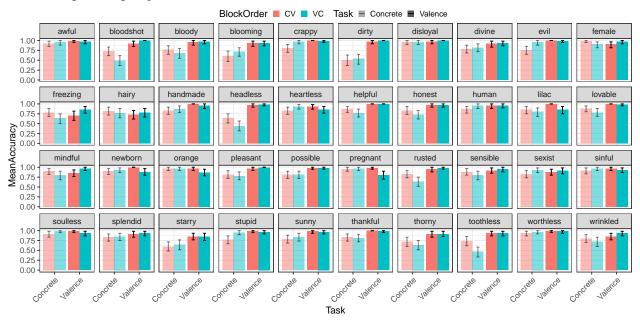




### Mean Accuracy by Word / Task

```
theme(axis.text.x = element\_text(angle = 45, hjust = 1))
ggplot(agr,aes(x=Task, y=MeanAccuracy, alpha=Task, fill=BlockOrder)) +
  geom_bar(position="dodge",stat="identity") +
  geom_errorbar(aes(ymin=YMin,ymax=YMax),width=.25,position=position_dodge(0.9)) +
  facet wrap(~Word, ncol=10) +
  xlab("Task") +
  ylab("MeanAccuracy") +
  # quides(fill=FALSE) +
  guides(alpha=guide legend(title="Task")) +
  theme(legend.key.size = unit(0.3, "cm"),
        legend.position = "top", # c(.5,1)
        legend.direction = "horizontal",
        legend.margin=margin(0,0,0,0),
        legend.box.margin=margin(0,0,-5,-5),legend.spacing.y = unit(0.001, 'cm')) +
    # scale_fill_manual(values=cbPalette) +
    # scale_color_manual(values=cbPalette) +
    scale_alpha_discrete(range = c(.5,1)) +
    theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

## Warning: Using alpha for a discrete variable is not advised.



Looking at only the first block

```
group_by(Word, Task) %>%
      select(Word, Task, MeanAccuracy) %>%
      unique()
dodge = position_dodge(.9)
ggplot(data=agr, aes(x=Task,y=MeanAccuracy,fill=BlockOrder)) +
      geom_bar(position=dodge,stat="identity") +
      facet wrap(~Word,ncol=10) +
      geom_errorbar(aes(ymin=YMin,ymax=YMax),width=.25,position=position_dodge(0.9)) +
      theme(axis.text.x = element_text(angle = 45, hjust = 1))
                                      bloodshot
                                                             bloody
                                                                                 blooming
                                                                                                                                                    disloyal
                                                                                                                                                                            divine
                                                                                                          crappy
                                                                                                                                                                                                   evil
                                                                                                                                                                                                                       female
     1.00
                 I
     0.75
                                                                                                                               I
    0.50
    0.25
    0.00
                 freezing
                                         hairy
                                                           handmade
                                                                                  headless
                                                                                                        heartless
                                                                                                                               helpful
                                                                                                                                                     honest
                                                                                                                                                                           human
                                                                                                                                                                                                   lilac
                                                                                                                                                                                                                       lovable
     1.00
    0.75
0.75 - 0.50 - 0.25 - 0.00 - 0.00 - 0.75 - 0.00 - 0.75 - 0.75 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.50 - 0.
                                                                                                                                                                                                                                            BlockOrder
                                                                                                                                                                                                                                                   CV
                  mindful
                                                                                                        possible
                                                                                                                                                                                                                        sinful
                                       newborn
                                                             orange
                                                                                  pleasant
                                                                                                                              pregnant
                                                                                                                                                     rusted
                                                                                                                                                                          sensible
                                                                                                                                                                                                  sexist
                                                                                                                                                                                                                                                    VC
                                                                                                                                                                                                                      I
                                                                                                                                                                                                I
    0.50
    0.25
    0.00
                 soulless
                                       splendid
                                                              starry
                                                                                    stupid
                                                                                                          sunny
                                                                                                                              thankful
                                                                                                                                                     thorny
                                                                                                                                                                         toothless
                                                                                                                                                                                               worthless
                                                                                                                                                                                                                      wrinkled
     1.00
    0.75
    0.50
    0.25
     0.00
                                                                                                                     Task
m <- lmer(MeanAccuracy ~ BlockOrder + (1|Word), data =agr)
summary(m)
## Linear mixed model fit by REML. t-tests use Satterthwaite's method [
## lmerModLmerTest]
## Formula: MeanAccuracy ~ BlockOrder + (1 | Word)
##
                 Data: agr
##
## REML criterion at convergence: -13009.1
##
## Scaled residuals:
##
                      Min
                                                   1Q
                                                                 Median
                                                                                                       30
                                                                                                                              Max
##
       -3.11584 -0.57461 0.00202 0.59951 3.07556
##
## Random effects:
           Groups
                                                                       Variance Std.Dev.
##
                                      (Intercept) 0.003224 0.05678
##
           Word
                                                                       0.003734 0.06111
## Number of obs: 4800, groups: Word, 40
## Fixed effects:
                                                 Estimate Std. Error
                                                                                                                              df t value Pr(>|t|)
## (Intercept) 8.179e-01 9.064e-03 3.975e+01
                                                                                                                                            90.24 <2e-16 ***
```

```
## BlockOrderVC 1.217e-01 1.764e-03 4.759e+03 68.97 <2e-16 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
## (Intr)
## BlockOrdrVC -0.097</pre>
```

# PropPositive and PropConcrete

```
val <- d %>%
  filter(Task == "Valence") %>%
  # filter(Word %in% conc$Word) %>%
  group_by(Word,ConcValCombo) %>%
  mutate(Response.n = as.numeric(factor(Response, levels = c("negative", "positive"))) - 1) %>% # Conv
  summarize(PropPositive = mean(Response.n))
## `summarise()` has grouped output by 'Word'. You can override using the
## `.groups` argument.
  # filter(PropPositive > .1 | PropPositive < .9)</pre>
dodge = position_dodge(.9)
ggplot(data=val, aes(x=reorder(Word,PropPositive),y=PropPositive,fill=ConcValCombo)) +
  geom_bar(position=dodge,stat="identity") +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
  1.00
  0.75
                                                                        ConcValCombo
PropPositive
                                                                             abstract-negative
  0.50
                                                                             abstract-positive
                                                                             concrete-negative
                                                                             concrete-positive
  0.25
  0.00
                        reorder(Word, PropPositive)
```

```
# guides(fill = "none")
conc <- d %>%
  filter(Task == "Concrete") %>%
  # filter(Word %in% conc$Word) %>%
  group_by(Word,ConcValCombo) %>%
  mutate(Response.n = as.numeric(factor(Response, levels = c("abstract", "concrete"))) - 1) %>% # Conv
  summarize(PropConcrete = mean(Response.n))
## `summarise()` has grouped output by 'Word'. You can override using the
## `.groups` argument.
  # filter(PropPositive > .1 | PropPositive < .9)</pre>
dodge = position_dodge(.9)
ggplot(data=conc, aes(x=reorder(Word,PropConcrete),y=PropConcrete,fill=ConcValCombo)) +
  geom_bar(position=dodge,stat="identity") +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
   1.00
   0.75
                                                                        ConcValCombo
PropConcrete
                                                                            abstract-negative
   0.50
                                                                            abstract-positive
                                                                            concrete-negative
                                                                             concrete-positive
   0.25
   0.00
                       reorder(Word, PropConcrete)
  # quides(fill = "none")
```

### Accuracy by Participant

```
agr <- d %>%
  # filter(PennElementType == "Selector") %>%
select(ID.true,Task,Accuracy) %>%
group_by(ID.true,Task) %>%
```

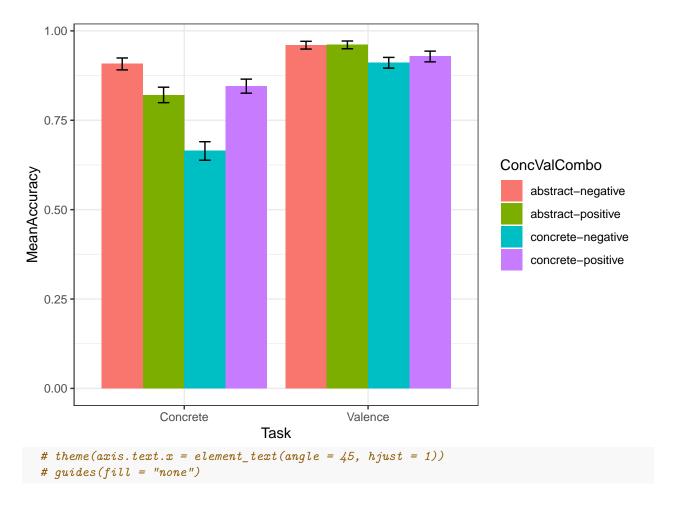
```
mutate(MeanAccuracy = mean(Accuracy),
          CILow = ci.low(Accuracy),
          CIHigh = ci.high(Accuracy)) %>%
  mutate(YMin = MeanAccuracy - CILow,
         YMax = MeanAccuracy + CIHigh)
dodge = position_dodge(.9)
ggplot(data=agr, aes(x=reorder(ID.true,MeanAccuracy),y=MeanAccuracy,fill=Task)) +
  geom_bar(position=dodge,stat="identity") +
  geom_errorbar(aes(ymin=YMin,ymax=YMax),width=.25,position=position_dodge(0.9)) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
  1.00
                                                                                       Task
                                                                                         Concrete
                                                                                         Valence
                                  reorder(ID.true, MeanAccuracy)
  # guides(fill = "none")
```

# Mean Accuracy by ConcValCombo

```
agr <- d %>%
  group_by(Task,ConcValCombo) %>%
  summarize(MeanAccuracy = mean(Accuracy), CILow = ci.low(Accuracy), CIHigh = ci.high(Accuracy)) %>%
  mutate(YMin = MeanAccuracy - CILow, YMax = MeanAccuracy + CIHigh)

## `summarise()` has grouped output by 'Task'. You can override using the
## `.groups` argument.

dodge = position_dodge(.9)
ggplot(data=agr, aes(x=Task,y=MeanAccuracy,fill=ConcValCombo)) +
  geom_bar(position=dodge,stat="identity") +
  # facet_wrap(~Task) +
  geom_errorbar(aes(ymin=YMin,ymax=YMax),width=.25,position=position_dodge(0.9))
```



## Remove participants who aren't accurate

```
length(unique(d$ID.true))
## [1] 40
inacc.parts <- d %>%
    group_by(ID.true,Task) %>%
    summarise(MeanAccuracy = mean(Accuracy)) %>%
    filter(MeanAccuracy < .75)

## `summarise()` has grouped output by 'ID.true'. You can override using the
## `.groups` argument.

# How many participants have Accuracy < .75?
length(unique(inacc.parts$ID.true))

## [1] 11
d.inaccurate.removed <- d %>%
    anti_join(inacc.parts, by = "ID.true")

# Sanity check
length(unique(d.inaccurate.removed$ID.true))
```

#### Accuracy by Participant

```
agr <- d.inaccurate.removed %>%
                                                                                  # filter(PennElementType == "Selector") %>%
                                                                                  select(ID.true, Task, Accuracy) %>%
                                                                                  group_by(ID.true,Task) %>%
                                                                                  mutate(MeanAccuracy = mean(Accuracy),
                                                                                                                                                                                                                                                                                                                                                                                                                              CILow = ci.low(Accuracy),
                                                                                                                                                                                                                                                                                                                                                                                                                        CIHigh = ci.high(Accuracy)) %>%
                                                                                  mutate(YMin = MeanAccuracy - CILow,
                                                                                                                                                                                                                                                                                                                                                                                     YMax = MeanAccuracy + CIHigh)
dodge = position_dodge(.9)
ggplot(data=agr, aes(x=reorder(ID.true,MeanAccuracy),y=MeanAccuracy,fill=Task)) +
                                                                                  geom_bar(position=dodge,stat="identity") +
                                                                                  geom_errorbar(aes(ymin=YMin,ymax=YMax),width=.25,position=position_dodge(0.9)) +
                                                                                  theme(axis.text.x = element_text(angle = 45, hjust = 1))
                                                                                              1.00
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```

# Mean Accuracy by Word / Task

Looking at only the first block

# guides(fill = "none")

```
agr <- d.inaccurate.removed %>%
  group_by(Task,Word,BlockOrder) %>%
  # filter((Task == "Valence") & (BlockOrder == "VC") |
             (Task == "Concrete") & (BlockOrder == "CV")) %>%
  mutate(MeanAccuracy = mean(Accuracy),
          CILow = ci.low(Accuracy),
          CIHigh = ci.high(Accuracy)) %>%
  mutate(YMin = MeanAccuracy - CILow,
```

reorder(ID.true, MeanAccuracy)

```
YMax = MeanAccuracy + CIHigh)
agrr <- agr %>%
  group_by(Word, Task) %>%
  select(Word, Task, MeanAccuracy) %>%
  unique()
dodge = position_dodge(.9)
ggplot(data=agr, aes(x=Task,y=MeanAccuracy,fill=BlockOrder)) +
  geom_bar(position=dodge,stat="identity") +
  facet_wrap(~Word,ncol=10) +
  geom_errorbar(aes(ymin=YMin,ymax=YMax),width=.25,position=position_dodge(0.9)) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
               bloodshot
                         bloody
                                 blooming
                                                                     divine
  1.00
  0.75
  0.50
  0.25
  0.00
  1.00
  0.75
BlockOrder
                                                                                                   CV
                newborn
                                                                                                   VC
  0.50
  0.25
  0.00
       soulless
                splendid
                                  stupid
                                                   thankful
                                                             thorny
                                                                     toothless
  1.00
  0.75
  0.50
  0.25
  0.00
                                               Concrete
```