# The Subconscious Effect of Subtle Media Bias on Perceptions of Terrorism

Replication File

3 September 2020

### Loading Data

These analyses were conducted using R 3.5.2. To run the analyses, you must load the data mediabias\_analysisdata.csv, as shown below.

```
## If you do not have packages, use install.packages()
library(foreign)
library(cobalt)
library(cregg)
library(cjoint)
library(qwraps2)

## load data
med2 <- read.csv("mediabias_analysisdata.csv", header = T)</pre>
```

The next section prepares the data and reshapes it from respondent-wide to respondent-task long format.

```
## create new variable indicating word choice
wording <- factor(x = c(1,2), labels = c("Neutral", "Negative"))</pre>
## assign word choice to corresponding element in the data
med2$word1A <- wording[1] # "Neutral"</pre>
med2$word1B <- wording[2] # "Negative"</pre>
med2$word2A <- wording[2] # "Negative"</pre>
med2$word2B <- wording[1] # "Neutral"</pre>
med2$word3A <- wording[1] # "Neutral"</pre>
med2$word3B <- wording[1] # "Neutral"</pre>
med2$word4A <- wording[1] # "Neutral"</pre>
med2$word4B <- wording[2] # "Negative"</pre>
med2$word5A <- wording[2] # "Negative"</pre>
med2$word5B <- wording[1] # "Neutral"</pre>
med2$word6A <- wording[2] # "Negative"</pre>
med2$word6B <- wording[2] # "Negative"</pre>
## reshape from respondent-wide to respondent-task-long
medialong <- reshape(med2,
                        idvar = "ResponseId",
                        varying = list(c("loc1A", "loc1B", "loc2A", "loc2B", "loc3A", "loc3B",
```

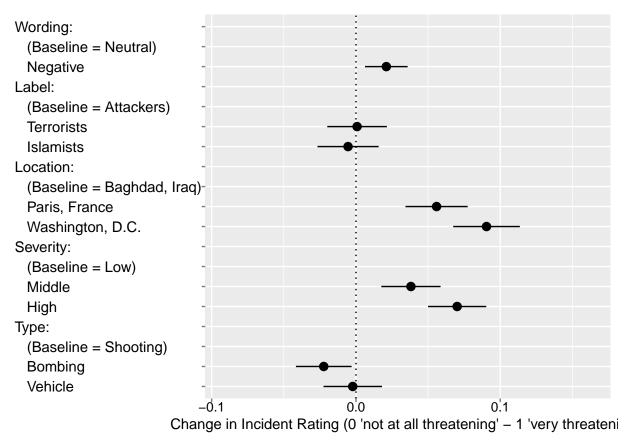
```
"loc4A", "loc4B", "loc5A", "loc5B", "loc6A", "loc6B"),
                                     c("lab1A", "lab1B", "lab2A", "lab2B", "lab3A", "lab3B",
                                        "lab4A", "lab4B", "lab5A", "lab5B", "lab6A", "lab6B"),
                                     c("sev1A", "sev1B", "sev2A", "sev2B", "sev3A", "sev3B",
                                        "sev4A", "sev4B", "sev5A", "sev5B", "sev6A", "sev6B"),
                                     c("type1A", "type1B", "type2A", "type2B", "type3A", "type3B",
                                        "type4A", "type4B", "type5A", "type5B", "type6A", "type6B"),
                                     c("word1A", "word1B", "word2A", "word2B", "word3A", "word3B",
                                        "word4A", "word4B", "word5A", "word5B", "word6A", "word6B"),
                                     c("choice1", "choice1", "choice2", "choice3", "choice3"
                                        "choice4", "choice4", "choice5", "choice5", "choice6"
                                     c("rate1_1", "rate1_2", "rate2_1", "rate2_2", "rate3_1", "rate3_2"
                                        "rate4_1", "rate4_2", "rate5_1", "rate5_2", "rate6_1", "rate6_2"
                                     c("credib1", "credib1", "credib2", "credib2", "credib3", "credib3"
                                       "credib4", "credib4", "credib5", "credib5", "credib6", "credib6"
                      # repeat every outcome twice because there are two observations for each choice o
                      v.names = c("Location",
                                  "Label",
                                  "Severity",
                                   "Type",
                                   "Wording",
                                  "Chosen",
                                  "Rating",
                                  "Credib"),
                      times = c(1, 1, 2, 2, 3, 3, 1, 1, 2, 2, 3, 3),
                      # repeat (1,2,3) because there are two groups
                      direction = "long")
## reorder columns so that the "time" var is second for better overview
names(medialong)
## [1] "X"
                                                         "ideol"
                        "ResponseId"
                                         "age"
## [5] "party"
                        "party_D"
                                         "party_R"
                                                         "party_I"
                        "educ"
## [9] "gender"
                                         "attention1"
                                                         "attention1_DO"
## [13] "relig"
                        "resid"
                                         "group1"
                                                         "group2"
## [17] "FL_20_D0"
                                                         "Location"
                        "FL_16_D0"
                                         "time"
## [21] "Label"
                        "Severity"
                                         "Type"
                                                         "Wording"
## [25] "Chosen"
                        "Rating"
                                         "Credib"
medord <- medialong[, c(1, 19, 2:18, 20:length(names(medialong)))]</pre>
## rename "time" var to "contest_no" (contest number)
names(medord)[2] <- "contest_no"</pre>
## order / cluster by responseID
medord <- medord[order(medord$ResponseId),]</pre>
## drop unused factor levels
medord <- droplevels(medord)</pre>
## recode factors and baseline levels
medord$Location <- relevel(medord$Location, "Baghdad, Iraq")</pre>
```

```
## now we should be good to go on all other variables
## just recode them as necessary (baselines etc.)
levels(medord$Label) <- c("Attackers", "Islamists", "Terrorists")</pre>
medord$Label <- factor(medord$Label,</pre>
                           levels = c("Attackers", "Terrorists", "Islamists"))
levels(medord$Severity) <- c("High", "Middle", "Low")</pre>
medord$Severity <- factor(medord$Severity,</pre>
                           levels = c("Low", "Middle", "High"))
levels(medord$Type) <- c("Vehicle", "Bombing", "Shooting")</pre>
medord$Type <- factor(medord$Type,</pre>
                       levels = c("Shooting", "Bombing", "Vehicle"))
## delete the unnecessary rownames in the df
rownames(medord) <- NULL</pre>
## Delete rows with NAs on outcomes (eliminates unnecessary observations)
medord <- medord[is.na(medord$Chosen) == F & is.na(medord$Rating) == F & is.na(medord$Credib) == F, ]
## Also eliminate respondents with item non-response
t <- sort(table(medord$ResponseId))</pre>
medord <- medord[medord$ResponseId != "R_1LXuzDy2ElOPvIy",]</pre>
medord$ResponseId <- as.character(medord$ResponseId)</pre>
## attention check quota
sum(medord$attention1 == 1) / nrow(medord) * 100 # 96%
## [1] 96.01386
## number of repsondents who failed attention check
sum(medord$attention1 != 1) / 6
## [1] 23
This section prepares the outcome variables and covariates.
## add additional variable "profile"
medord$profile <- rep(c(1:2), nrow(medord)/2)</pre>
## now recode chosen profile to binary indicator
## i.e., which profile "won" in each choice task?
medord$Chosen2 <- ifelse(medord$Chosen==1 & medord$profile == 1, 1,</pre>
                          ifelse(medord$Chosen==2 & medord$profile == 2, 1,
## recode Likert-scale rating variable to use as DV
## re-scale rating to vary from 0 to 1 (i.e., standardize):
medord$Rating <- as.numeric(as.character(medord$Rating))</pre>
scale.01 <- function(x){</pre>
  (x - min(x, na.rm = T)) /
    (\max(x, na.rm = T) - \min(x, na.rm = T))
```

```
## call function on Rating var:
medord$Rating2 <- scale.01(medord$Rating)</pre>
## now also recode objective / credible profile to binary indicator
medord$Credib2 <- ifelse(medord$Credib==1 & medord$profile == 1, 1,</pre>
                           ifelse(medord$Credib==2 & medord$profile == 2, 1,
## PREPARE COVARIATES
## one respondent reported that he mistakenly put his age in as 4 rather than 44
medord$age[medord$age==4] <- 44
medord$party <- as.factor(medord$party)</pre>
levels(medord$party) <- c("Rep", "Dem", "Ind", "Other")</pre>
medord$gender <- as.factor(medord$gender)</pre>
levels(medord$gender) <- c("Male", "Female")</pre>
medord$relig <- as.factor(medord$relig)</pre>
levels(medord$relig) <- c("Catholic", "Protestant", "Jewish", "Muslim", "Other",</pre>
                            "Atheist", "Agnostic")
medord$resid <- as.factor(medord$resid)</pre>
levels(medord$resid) <- c("Rural", "Small town", "Not_Multicult", "Multicult")</pre>
## now the data is prepared for analysis
```

### Analysis

```
group.order = c("Wording", "Label", "Location",
                           "Severity", "Type"),
          colors = "black",
          xlab = "Change in Pr(Threatening Incident)",
          breaks = seq(-.1, .4, .1),
          xlim = c(-.15, .4))
Wording:
  (Baseline = Neutral)
  Negative
Label:
  (Baseline = Attackers)
  Terrorists
  Islamists
Location:
  (Baseline = Baghdad, Iraq)-
  Paris, France
  Washington, D.C.
Severity:
  (Baseline = Low)
  Middle
  High
Type:
  (Baseline = Shooting)
  Bombing
  Vehicle
                                   –Ó.1
                                             0.0
                                                       0.1
                                                                 0.2
                                                                           0.3
                                                                                     0.4
                                          Change in Pr(Threatening Incident)
## Figure 1 (bottom)
```



```
Wording:
 (Baseline = Neutral)
 Negative
Label:
 (Baseline = Attackers)
 Terrorists
 Islamists
Location:
 (Baseline = Baghdad, Iraq)-
 Paris. France
 Washington, D.C.
Severity:
 (Baseline = Low)
 Middle
 High
Type:
 (Baseline = Shooting)
 Bombing
 Vehicle
                                           -d.2
                                                        -d.1
                                                                      0.0
                                                                                   0.1
                              −0.3
                                           Change in Pr(Objective Coverage)
```

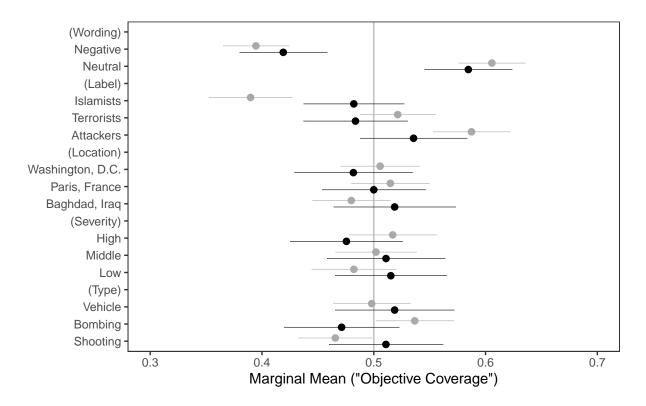
## **Supplementary Information**

The following sections show replication code for the Supplementary Information.

#### Analyzing subgroup effects

```
## subset by Reps and Dems only (i.e. exclude Independents and "Others")
repdem <- subset(medord,</pre>
```

```
subset = medord$party=="Rep" | medord$party=="Dem")
levels(repdem$party) <- c("Rep", "Dem", NA, NA)</pre>
## estimate marginal mean (by party) for threat outcome
threat_mm <- cj(data = repdem,</pre>
                formula = Chosen2 ~ Wording + Label + Location + Severity + Type,
                by = ~ party,
                id = ~ ResponseId,
                estimate = "mm")
## estimate marginal mean (by party) for objectivity outcome
object_mm <- cj(data = repdem,
                formula = Credib2 ~ Wording + Label + Location + Severity + Type,
                by = ~ party,
                id = ~ ResponseId,
                estimate = "mm")
## Figure S1 in SI
plot_MM <- plot(object_mm, group = "party", vline = .5, size = 2,</pre>
                theme = ggplot2::theme_bw(),
                legend_title = "Party",
                xlim = c(0.3, 0.7),
                xlab = "Marginal Mean (\"Objective Coverage\")")
plot_MM + ggplot2::scale_color_manual(breaks = c("Dem", "Rep"),
                                       labels = c("Dem", "Rep"),
                                       guide = ggplot2::guide_legend(title = "Party"),
                                       values = c("darkgrey", "black"))
```

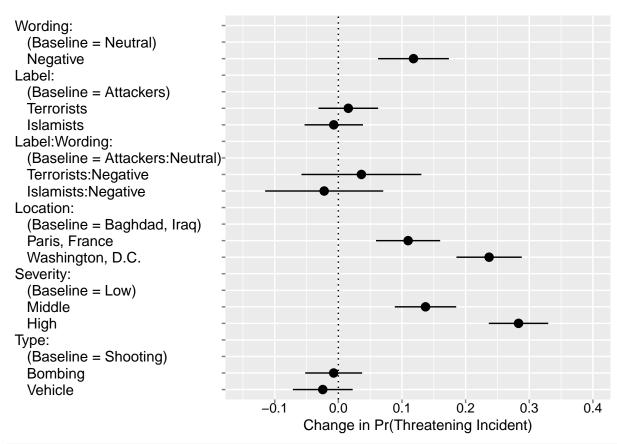


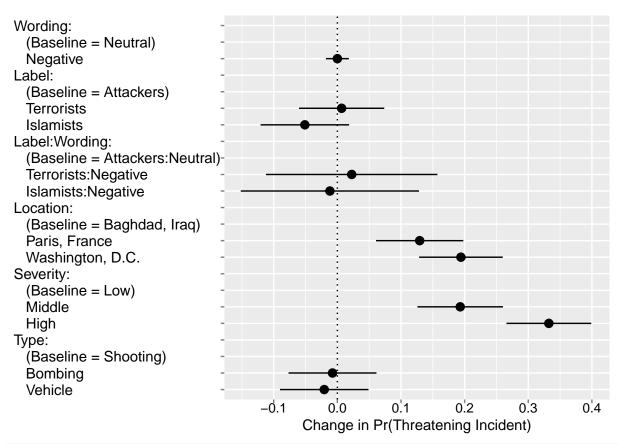
Party → Dem → Rep

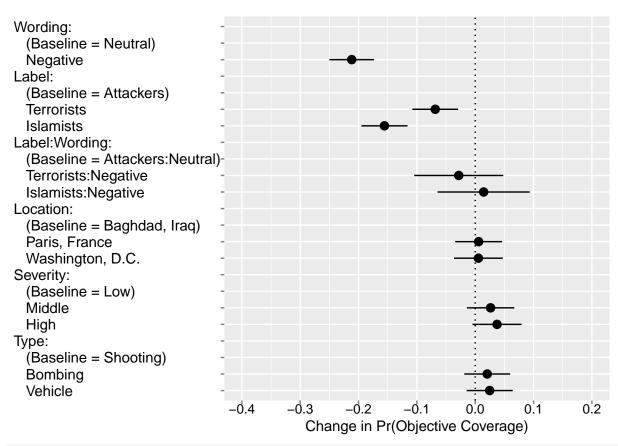
#### Scrutinizing the impact of word choice

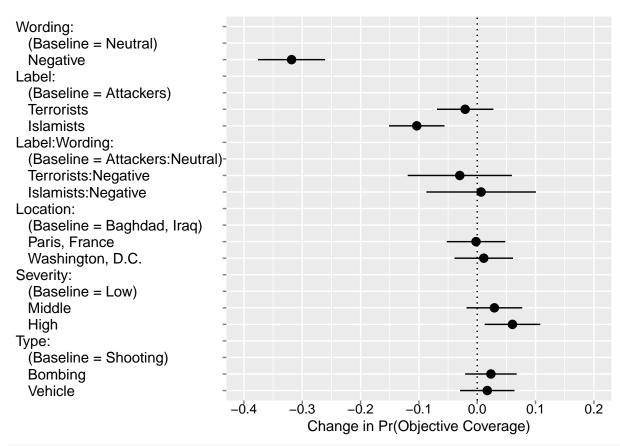
```
## threat: exlude constant word choice (i.e. include only rounds 1+2)
model3subs12 <- amce(Chosen2 ~ Wording + Label + Location + Severity + Type +
                     Wording*Label,
                   data = medord, cluster = T, respondent.id = "ResponseId",
                   design = "uniform",
                   subset = medord$contest_no==1 | medord$contest_no==2)
## threat: focus on constant word choice (i.e. include only rounds 3)
model3subs3 <- amce(Chosen2 ~ Wording + Label + Location + Severity + Type +
                     Wording*Label,
                   data = medord, cluster = T, respondent.id = "ResponseId",
                   design = "uniform",
                   subset = medord$contest_no==3)
## objectivity: exlude constant word choice (i.e. include only rounds 1+2)
model6subs12 <- amce(Credib2 ~ Wording + Label + Location + Severity + Type +
                     Wording*Label,
                   data = medord, cluster = T, respondent.id = "ResponseId",
                   design = "uniform",
                   subset = medord$contest_no==1 | medord$contest_no==2)
## objectivity: focus on constant word choice (i.e. include only rounds 3)
model6subs3 <- amce(Credib2 ~ Wording + Label + Location + Severity + Type +</pre>
                     Wording*Label,
                   data = medord, cluster = T, respondent.id = "ResponseId",
```

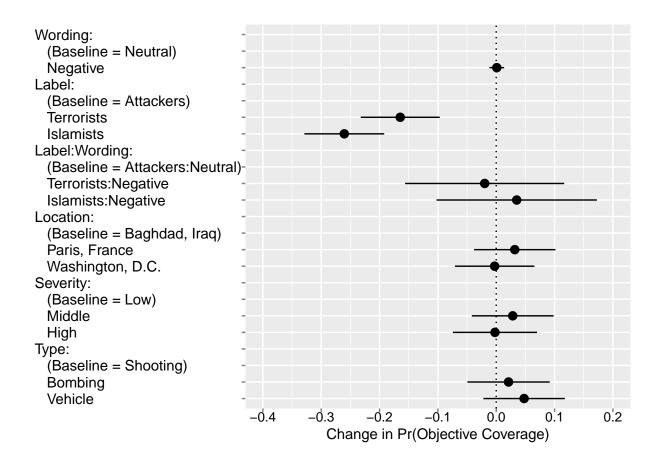
```
design = "uniform",
                   subset = medord$contest_no==3)
## Figure S2 in SI
## Plot (a) [full sample on threat, see above]
plot.amce(model3,
          group.order = c("Wording", "Label", "Label:Wording", "Location",
                           "Severity", "Type"),
          colors = "black",
          xlab = "Change in Pr(Threatening Incident)",
          breaks = seq(-.1, .4, .1),
          xlim = c(-.15, .4))
Wording:
  (Baseline = Neutral)
  Negative
Label:
  (Baseline = Attackers)
  Terrorists
  Islamists
Label:Wording:
  (Baseline = Attackers:Neutral)-
  Terrorists:Negative
  Islamists:Negative
Location:
  (Baseline = Baghdad, Iraq)
  Paris, France
  Washington, D.C.
Severity:
  (Baseline = Low)
  Middle
  High
Type:
  (Baseline = Shooting)
  Bombing
  Vehicle
                                     -d.1
                                                         0.1
                                                                  0.2
                                                                            0.3
                                                                                      0.4
                                           Change in Pr(Threatening Incident)
```











#### Interactions of wording and labels

```
## INTERACTION EFFECTS W/ DIFFERENT BASELINES -
# 1) WORDING BASELINE:
medord$Wording2 <- relevel(medord$Wording, "Negative")</pre>
model3_a <- amce(Chosen2 ~ Wording2 + Label + Location + Severity + Type +
                   Wording2*Label,
                 data = medord, cluster = T, respondent.id = "ResponseId",
                 design = "uniform")
summary(model3_a)
## Average Marginal Component Effects (AMCE):
                         Level Estimate Std. Err z value
                                                             Pr(>|z|)
##
   Attribute
##
       Label
                    Terrorists 0.013617 0.019762 0.68906 4.9079e-01
       Label
                     Islamists -0.020022 0.019699 -1.01641 3.0944e-01
##
##
    Location
                 Paris, France 0.115424 0.021009 5.49410 3.9271e-08 ***
     Location Washington, D.C. 0.222095 0.021496 10.33167 5.0669e-25 ***
##
                        Middle 0.153971 0.020700 7.43821 1.0206e-13 ***
##
     Severity
##
     Severity
                          High 0.298913 0.020604 14.50746 1.0867e-47 ***
##
         Type
                       Bombing -0.008646 0.019896 -0.43457 6.6388e-01
##
         Type
                       Vehicle -0.023284 0.019991 -1.16472 2.4413e-01
##
     Wording2
                       Neutral -0.078732 0.019066 -4.12947 3.6359e-05 ***
```

```
## ---
## Number of Obs. = 3462
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
## -----
## AMCE Baseline Levels:
## -----
  Attribute
                  Level
            Attackers
##
      Label
   Location Baghdad, Iraq
##
##
    Severity
                   Low
##
       Туре
                Shooting
##
    Wording2
               Negative
##
##
## -----
## Average Component Interaction Effects (ACIE):
## -----
                           Level Estimate Std. Err z value Pr(>|z|)
       Attribute
## Label:Wording2 Terrorists:Neutral -0.030062 0.039854 -0.75431 0.45066
## Label:Wording2 Islamists:Neutral 0.019314 0.040410 0.47795 0.63268
## ---
## Number of Obs. = 3462
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
## -----
## ACIE Baseline Levels:
## -----
##
       Attribute
                           Level
## Label:Wording2 Attackers:Negative
plot.amce(model3_a,
        group.order = c("Wording2", "Label", "Label:Wording2", "Location",
                      "Severity", "Type"),
        colors = "black",
        xlab = "Change in Pr(Threatening Incident)",
        breaks = seq(-.1, .4, .1),
        xlim = c(-.15, .4))
```

```
Wording2:
  (Baseline = Negative)
  Neutral
Label:
  (Baseline = Attackers)
  Terrorists
  Islamists
Label:Wording2:
  (Baseline = Attackers: Negative)-
  Terrorists:Neutral
  Islamists:Neutral
Location:
  (Baseline = Baghdad, Iraq)
  Paris, France
  Washington, D.C.
Severity:
  (Baseline = Low)
  Middle
  High
Type:
  (Baseline = Shooting)
  Bombing
  Vehicle
                                                                  0.2
                                                0.0
                                                                           0.3
                                                                                    0.4
                                      -0.1
                                                         0.1
                                            Change in Pr(Threatening Incident)
model4_a <- amce(Rating2 ~ Wording2 + Label + Location + Severity + Type +
                   Wording2*Label,
                 data = medord, cluster = T, respondent.id = "ResponseId",
                 design = "uniform")
summary(model4 a)
## Average Marginal Component Effects (AMCE):
##
##
    Attribute
                         Level
                                   Estimate Std. Err
                                                        z value
                                                                  Pr(>|z|)
##
       Label
                    Terrorists 0.00079954 0.0105376 0.075875 9.3952e-01
##
        Label
                     Islamists -0.00551780 0.0108052 -0.510659 6.0959e-01
##
     Location
                 Paris, France 0.05595365 0.0109788 5.096500 3.4599e-07 ***
##
     Location Washington, D.C. 0.09041322 0.0117644 7.685329 1.5260e-14 ***
##
                        Middle 0.03836773 0.0104134 3.684468 2.2918e-04 ***
     Severity
##
     Severity
                          High 0.06997752 0.0103012 6.793174 1.0969e-11 ***
##
                       Bombing -0.02194958 0.0098673 -2.224480 2.6116e-02
         Туре
                       Vehicle -0.00227386 0.0103510 -0.219674 8.2612e-01
##
         Туре
##
     Wording2
                       Neutral -0.02100819 0.0075504 -2.782388 5.3960e-03 **
##
## Number of Obs. = 3462
##
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
##
##
```

```
## AMCE Baseline Levels:
## -----
##
  Attribute
##
              Attackers
      Label
##
    Location Baghdad, Iraq
##
    Severity
##
       Туре
                Shooting
##
                Negative
    Wording2
##
##
    _____
## Average Component Interaction Effects (ACIE):
## -----
##
                           Level Estimate Std. Err z value Pr(>|z|)
       Attribute
## Label:Wording2 Terrorists:Neutral 0.031210 0.021483 1.45277 0.14629
## Label:Wording2 Islamists:Neutral 0.012436 0.020561 0.60484 0.54529
## ---
## Number of Obs. = 3462
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
## -----
## ACIE Baseline Levels:
## -----
       Attribute
## Label:Wording2 Attackers:Negative
plot.amce(model4_a,
        group.order = c("Wording2", "Label", "Label:Wording2", "Location",
                      "Severity", "Type"),
        colors = "black",
        xlab = "Change in Incident Rating (0 'not at all threatening' - 1 'very threatening')")
```

```
Wording2:
  (Baseline = Negative)
  Neutral
Label:
  (Baseline = Attackers)
  Terrorists
  Islamists
Label:Wording2:
  (Baseline = Attackers: Negative)-
  Terrorists:Neutral
  Islamists:Neutral
Location:
  (Baseline = Baghdad, Iraq)
  Paris, France
  Washington, D.C.
Severity:
  (Baseline = Low)
  Middle
  High
Type:
  (Baseline = Shooting)
  Bombing
  Vehicle
                                -0.1
                                                    0.0
                                                                        0.1
                         Change in Incident Rating (0 'not at all threatening' - 1 'very threate
model6_a <- amce(Credib2 ~ Wording2 + Label + Location + Severity + Type +
                   Wording2*Label,
                 data = medord, cluster = T, respondent.id = "ResponseId",
                 design = "uniform")
summary(model6 a)
## Average Marginal Component Effects (AMCE):
##
##
   Attribute
                         Level
                                 Estimate Std. Err z value
##
       Label
                    Terrorists -0.0685169 0.020024 -3.42167 6.2238e-04 ***
##
        Label
                     Islamists -0.1556503 0.020160 -7.72063 1.1575e-14 ***
                 Paris, France 0.0058359 0.020534 0.28421 7.7625e-01
##
     Location
##
     Location Washington, D.C. 0.0054551 0.021362 0.25537 7.9844e-01
##
     Severity
                        Middle 0.0263190 0.020753 1.26821 2.0472e-01
##
     Severity
                          High 0.0373820 0.021495 1.73913 8.2012e-02
##
                       Bombing 0.0206222 0.020078 1.02710 3.0437e-01
         Туре
                       Vehicle 0.0248086 0.020185 1.22909 2.1904e-01
##
         Туре
##
     Wording2
                       Neutral 0.2117500 0.019596 10.80556 3.2399e-27 ***
##
## Number of Obs. = 3462
##
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
##
##
```

```
## AMCE Baseline Levels:
## -----
  Attribute
##
##
      Label
              Attackers
##
    Location Baghdad, Iraq
##
    Severity
##
       Type
                Shooting
##
                Negative
    Wording2
##
##
    _____
## Average Component Interaction Effects (ACIE):
## -----
##
       Attribute
                           Level Estimate Std. Err z value Pr(>|z|)
## Label:Wording2 Terrorists:Neutral 0.028264 0.038926 0.72609 0.46779
## Label:Wording2 Islamists:Neutral -0.014440 0.040354 -0.35783 0.72047
## ---
## Number of Obs. = 3462
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
## -----
## ACIE Baseline Levels:
## -----
       Attribute
## Label:Wording2 Attackers:Negative
plot.amce(model6_a,
        group.order = c("Wording2", "Label", "Label:Wording2", "Location",
                      "Severity", "Type"),
        colors = "black",
        xlab = "Change in Pr(Objective Coverage)")
```

```
Wording2:
  (Baseline = Negative)
  Neutral
Label:
  (Baseline = Attackers)
  Terrorists
  Islamists
Label:Wording2:
  (Baseline = Attackers: Negative)-
  Terrorists:Neutral
  Islamists:Neutral
Location:
  (Baseline = Baghdad, Iraq)
  Paris, France
  Washington, D.C.
Severity:
  (Baseline = Low)
  Middle
  High
Type:
  (Baseline = Shooting)
  Bombing
  Vehicle
                                      −0.2
                                                _oٰ.1
                                                         0.0
                                                                  0.1
                                                                            0.2
                                                                                     0.3
                                             Change in Pr(Objective Coverage)
# 2) LABEL BASELINE:
medord$Label2 <- relevel(medord$Label, "Terrorists")</pre>
model3 b <- amce(Chosen2 ~ Wording + Label2 + Location + Severity + Type +</pre>
                   Wording*Label2,
                 data = medord, cluster = T, respondent.id = "ResponseId",
                 design = "uniform")
summary(model3_b)
  Average Marginal Component Effects (AMCE):
                          Level Estimate Std. Err z value
##
    Attribute
##
       Label2
                     Attackers -0.013617 0.019762 -0.68906 4.9079e-01
##
       Label2
                     Islamists -0.033639 0.019988 -1.68298 9.2379e-02
##
     Location
                 Paris, France 0.115424 0.021009 5.49410 3.9271e-08 ***
    Location Washington, D.C. 0.222095 0.021496 10.33167 5.0669e-25 ***
##
                        Middle 0.153971 0.020700 7.43821 1.0206e-13 ***
##
     Severity
##
     Severity
                          High 0.298913 0.020604 14.50746 1.0867e-47 ***
##
         Туре
                       Bombing -0.008646 0.019896 -0.43457 6.6388e-01
                       Vehicle -0.023284 0.019991 -1.16472 2.4413e-01
##
         Туре
##
      Wording
                      Negative 0.078732 0.019066 4.12947 3.6359e-05 ***
##
## Number of Obs. = 3462
## Number of Respondents = 577
```

## ---

```
## Signif. codes: 0 '***' 0.001 '**' 0.05
##
## -----
## AMCE Baseline Levels:
## -----
## Attribute Level
    Label2 Terrorists
  Location Baghdad, Iraq
##
##
    Severity
##
       Туре
               Shooting
##
    Wording
               Neutral
##
##
## -----
## Average Component Interaction Effects (ACIE):
## -----
##
                           Level Estimate Std. Err z value Pr(>|z|)
       Attribute
## Label2:Wording Attackers:Negative -0.030062 0.039854 -0.75431 0.45066
## Label2:Wording Islamists:Negative -0.049376 0.039078 -1.26352 0.20640
## Number of Obs. = 3462
## Number of Respondents = 577
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05
##
## -----
## ACIE Baseline Levels:
## -----
##
                           Level
       Attribute
## Label2:Wording Terrorists:Neutral
plot.amce(model3_b,
        group.order = c("Wording", "Label2", "Label2:Wording", "Location",
                      "Severity", "Type"),
        colors = "black",
        xlab = "Change in Pr(Threatening Incident)",
        breaks = seq(-.1, .4, .1),
        xlim = c(-.15, .4))
```

```
Wording:
  (Baseline = Neutral)
  Negative
Label2:
  (Baseline = Terrorists)
  Attackers
  Islamists
Label2:Wording:
  (Baseline = Terrorists:Neutral)-
  Attackers: Negative
  Islamists:Negative
Location:
  (Baseline = Baghdad, Iraq)
  Paris, France
  Washington, D.C.
Severity:
  (Baseline = Low)
  Middle
  High
Type:
  (Baseline = Shooting)
  Bombing
  Vehicle
                                     -Ó.1
                                              0.0
                                                                 0.2
                                                                           0.3
                                                        0.1
                                                                                    0.4
                                           Change in Pr(Threatening Incident)
model4_b <- amce(Rating2 ~ Wording + Label2 + Location + Severity + Type +
                   Wording*Label2,
                 data = medord, cluster = T, respondent.id = "ResponseId",
                 design = "uniform")
summary(model4 b)
## Average Marginal Component Effects (AMCE):
##
##
   Attribute
                                  Estimate Std. Err
                                                        z value
                                                                  Pr(>|z|)
##
       Label2
                     Attackers -0.00079954 0.0105376 -0.075875 9.3952e-01
##
       Label2
                     Islamists -0.00631734 0.0105581 -0.598341 5.4961e-01
                 Paris, France 0.05595365 0.0109788 5.096500 3.4599e-07 ***
##
     Location
##
     Location Washington, D.C. 0.09041322 0.0117644 7.685329 1.5260e-14 ***
##
                        Middle 0.03836773 0.0104134 3.684468 2.2918e-04 ***
     Severity
##
     Severity
                          High 0.06997752 0.0103012 6.793174 1.0969e-11 ***
##
                       Bombing -0.02194958 0.0098673 -2.224480 2.6116e-02
         Туре
                       Vehicle -0.00227386 0.0103510 -0.219674 8.2612e-01
##
         Туре
##
      Wording
                      Negative 0.02100819 0.0075504 2.782388 5.3960e-03 **
##
## Number of Obs. = 3462
##
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
##
##
```

```
## AMCE Baseline Levels:
## -----
##
  Attribute
##
     Label2 Terrorists
##
    Location Baghdad, Iraq
##
    Severity
##
       Туре
                Shooting
##
                Neutral
     Wording
##
##
   _____
## Average Component Interaction Effects (ACIE):
## -----
##
                           Level Estimate Std. Err z value Pr(>|z|)
       Attribute
## Label2:Wording Attackers:Negative 0.031210 0.021483 1.45277 0.14629
## Label2:Wording Islamists:Negative 0.018774 0.019295 0.97305 0.33053
## ---
## Number of Obs. = 3462
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
## -----
## ACIE Baseline Levels:
## -----
       Attribute
## Label2:Wording Terrorists:Neutral
plot.amce(model4_b,
        group.order = c("Wording", "Label2", "Label2:Wording", "Location",
                      "Severity", "Type"),
        colors = "black",
        xlab = "Change in Incident Rating (0 'not at all threatening' - 1 'very threatening')")
```

```
Wording:
  (Baseline = Neutral)
  Negative
Label2:
  (Baseline = Terrorists)
  Attackers
  Islamists
Label2:Wording:
  (Baseline = Terrorists:Neutral)-
  Attackers: Negative
  Islamists:Negative
Location:
  (Baseline = Baghdad, Iraq)
  Paris, France
  Washington, D.C.
Severity:
  (Baseline = Low)
  Middle
  High
Type:
  (Baseline = Shooting)
  Bombing
  Vehicle
                                                   0.0
                              -0.1
                                                                       0.1
                        Change in Incident Rating (0 'not at all threatening' - 1 'very threate
model6_b <- amce(Credib2 ~ Wording + Label2 + Location + Severity + Type +</pre>
                   Wording*Label2,
                 data = medord, cluster = T, respondent.id = "ResponseId",
                 design = "uniform")
summary(model6 b)
## Average Marginal Component Effects (AMCE):
##
##
   Attribute
                         Level
                                 Estimate Std. Err
                                                     z value
                                                                Pr(>|z|)
##
       Label2
                     Attackers 0.0685169 0.020024
                                                     3.42167 6.2238e-04 ***
##
       Label2
                     Islamists -0.0871335 0.020612 -4.22723 2.3659e-05 ***
##
     Location
                 Paris, France 0.0058359 0.020534 0.28421 7.7625e-01
##
     Location Washington, D.C. 0.0054551 0.021362 0.25537 7.9844e-01
##
     Severity
                        Middle 0.0263190 0.020753 1.26821 2.0472e-01
##
     Severity
                          High 0.0373820 0.021495 1.73913 8.2012e-02
##
                       Bombing 0.0206222 0.020078
                                                     1.02710 3.0437e-01
         Туре
                       Vehicle 0.0248086 0.020185
                                                     1.22909 2.1904e-01
##
         Туре
##
      Wording
                      Negative -0.2117500 0.019596 -10.80556 3.2399e-27 ***
##
## Number of Obs. = 3462
##
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
##
##
```

```
## AMCE Baseline Levels:
## -----
##
  Attribute
##
     Label2 Terrorists
##
    Location Baghdad, Iraq
##
    Severity
##
       Туре
                Shooting
##
                Neutral
     Wording
##
##
   _____
## Average Component Interaction Effects (ACIE):
## -----
##
       Attribute
                           Level Estimate Std. Err z value Pr(>|z|)
## Label2:Wording Attackers:Negative 0.028264 0.038926 0.72609 0.46779
## Label2:Wording Islamists:Negative 0.042704 0.039975 1.06826 0.28540
## ---
## Number of Obs. = 3462
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
## -----
## ACIE Baseline Levels:
## -----
       Attribute
## Label2:Wording Terrorists:Neutral
plot.amce(model6_b,
        group.order = c("Wording", "Label2", "Label2:Wording", "Location",
                      "Severity", "Type"),
        colors = "black",
        xlab = "Change in Pr(Objective Coverage)")
```

```
Wording:
  (Baseline = Neutral)
  Negative
Label2:
  (Baseline = Terrorists)
  Attackers
  Islamists
Label2:Wording:
  (Baseline = Terrorists:Neutral)-
  Attackers: Negative
  Islamists:Negative
Location:
  (Baseline = Baghdad, Iraq)
  Paris, France
  Washington, D.C.
Severity:
  (Baseline = Low)
  Middle
  High
Type:
  (Baseline = Shooting)
  Bombing
  Vehicle
                                             −0.2
                                                        -0.1
                                                                    0.0
                                                                                0.1
                                 -Ó.3
                                             Change in Pr(Objective Coverage)
# 3) LABEL BASELINE AND WORDING BASELINE:
```

```
model3_c <- amce(Chosen2 ~ Wording2 + Label2 + Location + Severity + Type +</pre>
                   Wording2*Label2,
                 data = medord, cluster = T, respondent.id = "ResponseId",
                 design = "uniform")
summary(model3 c)
## Average Marginal Component Effects (AMCE):
##
                         Level Estimate Std. Err z value
                                                             Pr(>|z|)
##
   Attribute
##
      Label2
                     Attackers -0.013617 0.019762 -0.68906 4.9079e-01
                     Islamists -0.033639 0.019988 -1.68298 9.2379e-02
##
      Label2
##
    Location
                 Paris, France 0.115424 0.021009 5.49410 3.9271e-08 ***
##
    Location Washington, D.C. 0.222095 0.021496 10.33167 5.0669e-25 ***
##
     Severity
                        Middle 0.153971 0.020700 7.43821 1.0206e-13 ***
##
     Severity
                          High 0.298913 0.020604 14.50746 1.0867e-47 ***
##
                       Bombing -0.008646 0.019896 -0.43457 6.6388e-01
        Туре
##
         Туре
                       Vehicle -0.023284 0.019991 -1.16472 2.4413e-01
##
     Wording2
                       Neutral -0.078732 0.019066 -4.12947 3.6359e-05 ***
##
## Number of Obs. = 3462
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
```

##

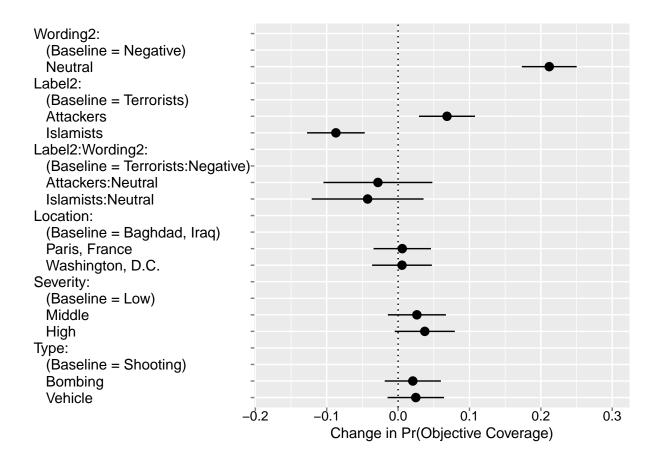
```
## AMCE Baseline Levels:
## -----
## Attribute
                  Level
    Label2 Terrorists
##
##
   Location Baghdad, Iraq
##
   Severity Low
##
       Туре
                Shooting
##
    Wording2
               Negative
##
##
## -----
## Average Component Interaction Effects (ACIE):
## -----
        Attribute
                           Level Estimate Std. Err z value Pr(>|z|)
## Label2:Wording2 Attackers:Neutral 0.030062 0.039854 0.75431 0.45066
## Label2:Wording2 Islamists:Neutral 0.049376 0.039078 1.26352 0.20640
## ---
## Number of Obs. = 3462
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05
##
## ACIE Baseline Levels:
## -----
##
        Attribute
                             Level
## Label2:Wording2 Terrorists:Negative
plot.amce(model3_c,
        group.order = c("Wording2", "Label2", "Label2:Wording2", "Location",
                      "Severity", "Type"),
        colors = "black",
        xlab = "Change in Pr(Threatening Incident)",
        breaks = seq(-.1, .4, .1),
        xlim = c(-.15, .4))
```

```
Wording2:
  (Baseline = Negative)
  Neutral
Label2:
  (Baseline = Terrorists)
  Attackers
  Islamists
Label2:Wording2:
  (Baseline = Terrorists:Negative)-
  Attackers:Neutral
  Islamists:Neutral
Location:
  (Baseline = Baghdad, Iraq)
  Paris, France
  Washington, D.C.
Severity:
  (Baseline = Low)
  Middle
  High
Type:
  (Baseline = Shooting)
  Bombing
  Vehicle
                                                                  0.2
                                                         0.1
                                                                           0.3
                                                                                     0.4
                                      -0.1
                                                0.0
                                            Change in Pr(Threatening Incident)
model4_c <- amce(Rating2 ~ Wording2 + Label2 + Location + Severity + Type +</pre>
                   Wording2*Label2,
                 data = medord, cluster = T, respondent.id = "ResponseId",
                 design = "uniform")
summary(model4 c)
## Average Marginal Component Effects (AMCE):
##
##
    Attribute
                                   Estimate Std. Err
                                                        z value
                                                                   Pr(>|z|)
##
       Label2
                     Attackers -0.00079954 0.0105376 -0.075875 9.3952e-01
##
       Label2
                     Islamists -0.00631734 0.0105581 -0.598341 5.4961e-01
##
     Location
                 Paris, France 0.05595365 0.0109788 5.096500 3.4599e-07 ***
##
     Location Washington, D.C. 0.09041322 0.0117644 7.685329 1.5260e-14 ***
                        Middle 0.03836773 0.0104134 3.684468 2.2918e-04 ***
##
     Severity
##
     Severity
                          High 0.06997752 0.0103012 6.793174 1.0969e-11 ***
##
                       Bombing -0.02194958 0.0098673 -2.224480 2.6116e-02
         Туре
                       Vehicle -0.00227386 0.0103510 -0.219674 8.2612e-01
##
         Туре
##
     Wording2
                       Neutral -0.02100819 0.0075504 -2.782388 5.3960e-03 **
##
## Number of Obs. = 3462
##
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
##
##
```

```
## AMCE Baseline Levels:
## -----
##
  Attribute
##
      Label2 Terrorists
##
    Location Baghdad, Iraq
##
    Severity
##
        Туре
                 Shooting
                 Negative
##
    Wording2
##
##
     -----
## Average Component Interaction Effects (ACIE):
##
                             Level Estimate Std. Err z value Pr(>|z|)
         Attribute
## Label2:Wording2 Attackers:Neutral -0.031210 0.021483 -1.45277 0.14629
## Label2:Wording2 Islamists:Neutral -0.018774 0.019295 -0.97305 0.33053
## ---
## Number of Obs. = 3462
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
## -----
## ACIE Baseline Levels:
## -----
        Attribute
## Label2:Wording2 Terrorists:Negative
plot.amce(model4_c,
         group.order = c("Wording2", "Label2", "Label2:Wording2", "Location",
                       "Severity", "Type"),
         colors = "black",
         xlab = "Change in Incident Rating (0 'not at all threatening' - 1 'very threatening')")
```

```
Wording2:
  (Baseline = Negative)
  Neutral
Label2:
  (Baseline = Terrorists)
  Attackers
  Islamists
Label2:Wording2:
  (Baseline = Terrorists:Negative)-
  Attackers:Neutral
  Islamists:Neutral
Location:
  (Baseline = Baghdad, Iraq)
  Paris, France
  Washington, D.C.
Severity:
  (Baseline = Low)
  Middle
  High
Type:
  (Baseline = Shooting)
  Bombing
  Vehicle
                                      -d.1
                                                       0.0
                                                                         0.1
                         Change in Incident Rating (0 'not at all threatening' - 1 'very threate
model6_c <- amce(Credib2 ~ Wording2 + Label2 + Location + Severity + Type +</pre>
                   Wording2*Label2,
                 data = medord, cluster = T, respondent.id = "ResponseId",
                 design = "uniform")
summary(model6 c)
## Average Marginal Component Effects (AMCE):
##
##
   Attribute
                         Level
                                  Estimate Std. Err z value
                                                               Pr(>|z|)
##
       Label2
                     Attackers 0.0685169 0.020024 3.42167 6.2238e-04 ***
##
       Label2
                     Islamists -0.0871335 0.020612 -4.22723 2.3659e-05 ***
##
     Location
                 Paris, France 0.0058359 0.020534 0.28421 7.7625e-01
##
     Location Washington, D.C. 0.0054551 0.021362 0.25537 7.9844e-01
##
     Severity
                        Middle 0.0263190 0.020753 1.26821 2.0472e-01
##
     Severity
                          High 0.0373820 0.021495 1.73913 8.2012e-02
##
                       Bombing 0.0206222 0.020078 1.02710 3.0437e-01
         Туре
                       Vehicle 0.0248086 0.020185 1.22909 2.1904e-01
##
         Туре
##
     Wording2
                       Neutral 0.2117500 0.019596 10.80556 3.2399e-27 ***
##
## Number of Obs. = 3462
##
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
##
##
```

```
## AMCE Baseline Levels:
## -----
##
  Attribute
##
     Label2 Terrorists
##
    Location Baghdad, Iraq
##
    Severity
##
        Туре
                Shooting
##
                Negative
    Wording2
##
##
     _____
## Average Component Interaction Effects (ACIE):
##
                            Level Estimate Std. Err z value Pr(>|z|)
        Attribute
## Label2:Wording2 Attackers:Neutral -0.028264 0.038926 -0.72609 0.46779
## Label2:Wording2 Islamists:Neutral -0.042704 0.039975 -1.06826 0.28540
## ---
## Number of Obs. = 3462
## Number of Respondents = 577
## Signif. codes: 0 '***' 0.001 '**' 0.05
## -----
## ACIE Baseline Levels:
## -----
        Attribute
## Label2:Wording2 Terrorists:Negative
plot.amce(model6_c,
         group.order = c("Wording2", "Label2", "Label2:Wording2", "Location",
                       "Severity", "Type"),
         colors = "black",
         xlab = "Change in Pr(Objective Coverage)")
```



#### Summary table of sample demographics