

IPV Terms Analysis

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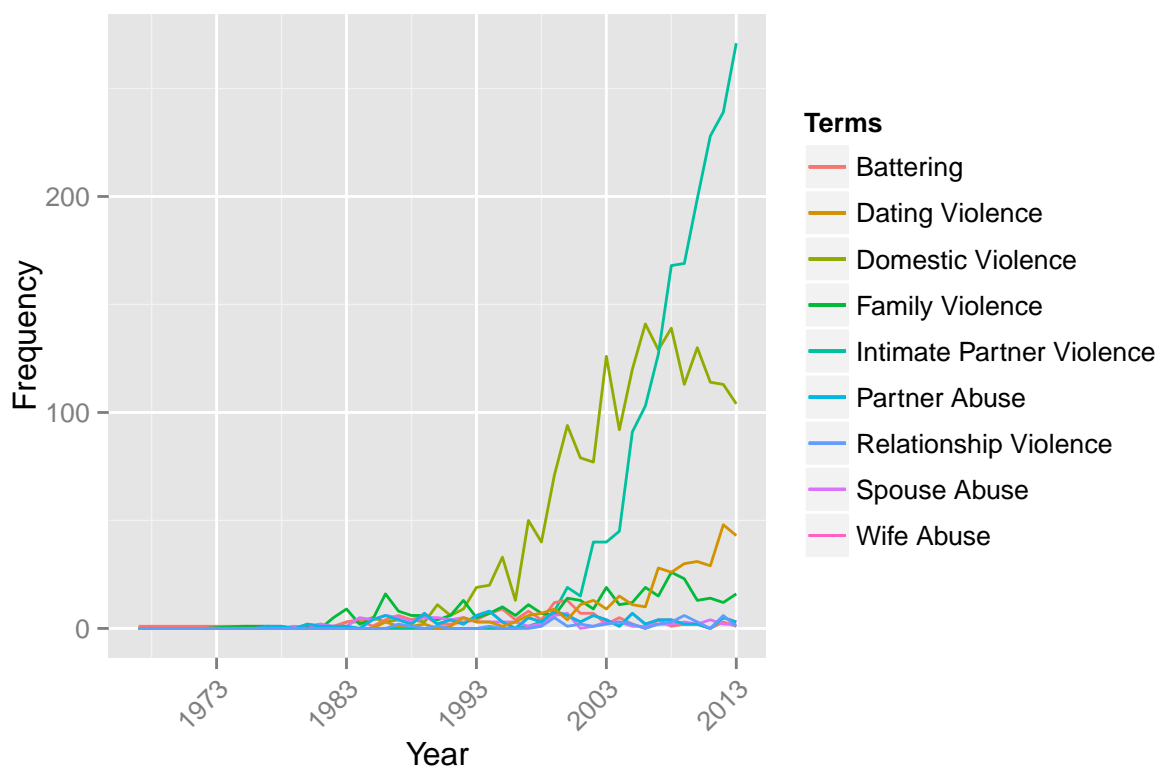
```
Attaching package: 'dplyr'
```

```
The following objects are masked from 'package:stats':
```

```
filter, lag
```

```
The following objects are masked from 'package:base':
```

```
intersect, setdiff, setequal, union
```



Stacked Bar Chart - Titles

```
library(reshape2)

colnames(merged)<-c("Year", "domestic violence", "intimate partner violence", "battering",
```

```

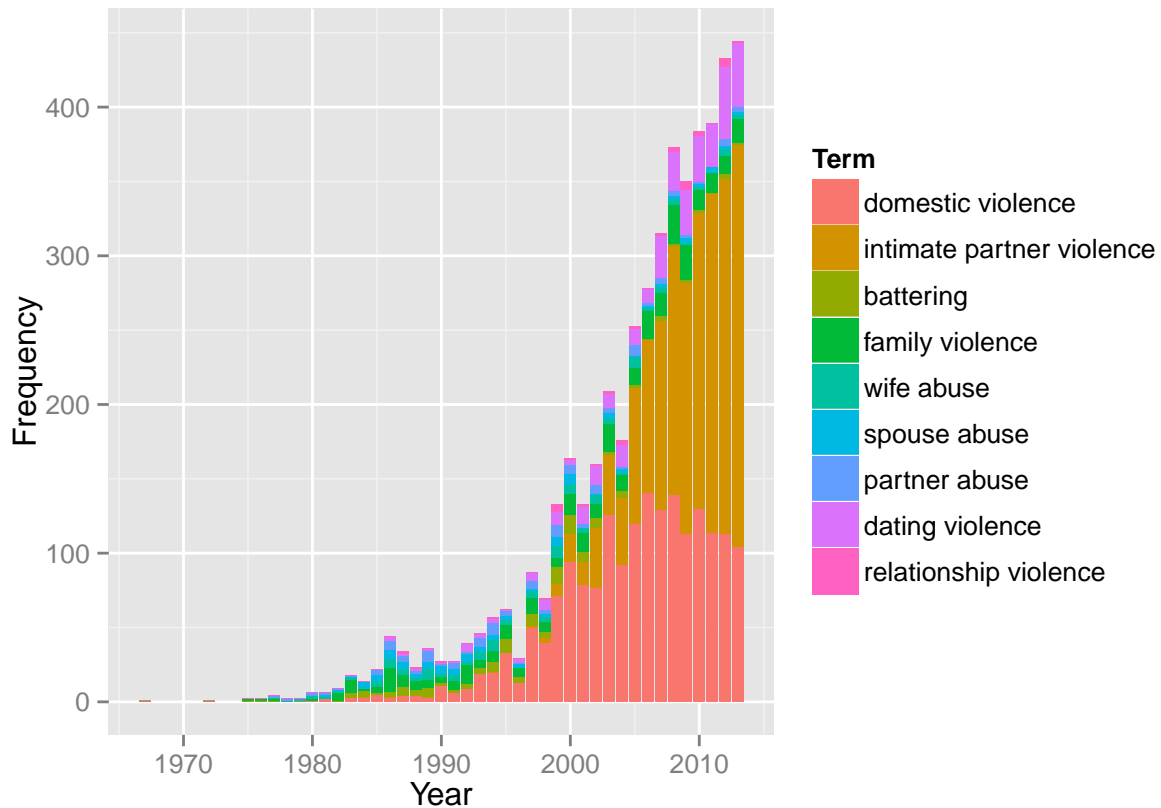
      "family violence", "wife abuse", "spouse abuse", "partner abuse",
      "dating violence", "relationship violence")

meltedmerge<-melt(merged, id.vars = "Year")

colnames(meltedmerge)<-c("Year", "Term", "Frequency")

ggplot(meltedmerge, aes(x = Year, y = Frequency, fill=Term)) +
  geom_bar(stat="identity")

```



Journal Analysis by title search

```

n.so.yr <- filter(titles.df, attributes == "SO" | attributes == "YR")

n.so <- filter(titles.df, attributes == "SO") %>% mutate(title = record) %>%
  select(-attributes, -record)

n.yr <- filter(titles.df, attributes == "YR") %>% mutate(year = record ) %>%
  select(-attributes, -record)

n.yr<-filter(n.yr, year<=2013)

```

```
n.so.yr <- merge(n.yr, n.so) %>%
  group_by(title) %>%
  summarise(first = min(year), last = max(year), n.to.date = n()) %>%
  arrange(desc(n.to.date))

# 10 highest number of publications
head(n.so.yr, 15)
```

```
## Source: local data frame [15 x 4]
##
##               title first last n.to.date
## 1      Journal of Interpersonal Violence 1987 2013      432
## 2      Journal of Family Violence 1986 2013      325
## 3      Violence Against Women 1997 2013      304
## 4      Violence and Victims 1986 2013      227
## 5 Journal of Aggression, Maltreatment & Trauma 2000 2013      110
## 6      Aggression and Violent Behavior 1997 2013       71
## 7      Trauma, Violence, & Abuse 2000 2013       58
## 8      Child Abuse & Neglect 1987 2013       52
## 9      Partner Abuse 2010 2013       50
## 10     Journal of Women's Health 1992 2013       47
## 11     Children and Youth Services Review 1993 2013       45
## 12     American Journal of Public Health 1994 2013       44
## 13     American Journal of Preventive Medicine 1996 2013       39
## 14     Social Science & Medicine 1994 2013       39
## 15     Journal of Family Psychology 1995 2013       38
```

Keyword Analysis

```
load("keywordsearch_df.R")
terms <- KW.df %>%
  filter(attributes=="KP")

years<-KW.df %>%
  filter(attributes=="YR")%>%
  select(articleID, year=record)

years$year<-as.character(years$year)
years$year<-as.numeric(years$year)

merged<-merge(terms, years, by="articleID")
merged<-select(merged, keyword=record, year)

#DOMESTIC VIOLENCE

DV.set<-filter(merged, grepl("domestic violence|Domestic Violence", keyword))
DV.set<-filter(DV.set, year<2014)

n.DV.year <- DV.set %>%
  group_by(year) %>%
```

```

    summarise(n = n())

n.DV.year<-select(n.DV.year, year, DV=n)

#INTIMATE PARTNER VIOLENCE

IPV.set<-filter(merged, grepl("intimate partner violence|Intimate Partner Violence", keyword))
IPV.set<-filter(IPV.set, year<2014)

n.IPV.year <- IPV.set %>%
  group_by(year) %>%
  summarise(n = n())

n.IPV.year<-select(n.IPV.year, year, IPV=n)

#FAMILY VIOLENCE

FV.set<-filter(merged, grepl("family violence|Family Violence", keyword))
FV.set<-filter(FV.set, year<2014)

n.FV.year <- FV.set %>%
  group_by(year) %>%
  summarise(n = n())

n.FV.year<-select(n.FV.year, year, FV=n)

#BATTERING

BAT.set<-filter(merged, grepl("batter|Batter", keyword))
BAT.set<-filter(BAT.set, year<2014)

n.BAT.year <- BAT.set %>%
  group_by(year) %>%
  summarise(n = n())

n.BAT.year<-select(n.BAT.year, year, BAT=n)

#WIFE ABUSE

WA.set<-filter(merged, grepl("wife abuse|Wife Abuse", keyword))
WA.set<-filter(WA.set, year<2014)

n.WA.year <- WA.set %>%
  group_by(year) %>%
  summarise(n = n())

n.WA.year<-select(n.WA.year, year, WA=n)

#SPOUSE ABUSE

SA.set<-filter(merged, grepl("spouse abuse|Spouse Abuse", keyword))
SA.set<-filter(SA.set, year<2014)

```

```

n.SA.year <- SA.set %>%
  group_by(year) %>%
  summarise(n = n())

n.SA.year<-select(n.SA.year, year, SA=n)

#PARTNER ABUSE

PA.set<-filter(merged, grepl("partner abuse|Partner Abuse", keyword))
PA.set<-filter(PA.set, year<2014)

n.PA.year <- PA.set %>%
  group_by(year) %>%
  summarise(n = n())

n.PA.year<-select(n.PA.year, year, PA=n)

#DATING VIOLENCE

DATING.set<-filter(merged, grepl("dating violence|Dating Violence", keyword))
DATING.set<-filter(DATING.set, year<2014)

n.DATING.year <- SA.set %>%
  group_by(year) %>%
  summarise(n = n())

n.DATING.year<-select(n.DATING.year, year, DATING=n)

#RELATIONSHIP VIOLENCE

REL.set<-filter(merged, grepl("relationship violence|Relationship Violence", keyword))
REL.set<-filter(REL.set, year<2014)

n.REL.year <- SA.set %>%
  group_by(year) %>%
  summarise(n = n())

n.REL.year<-select(n.REL.year, year, REL=n)

KW<-merge(n.DV.year, n.IPV.year, by="year", all=TRUE)
KW<-merge(KW, n.BAT.year, by="year", all=TRUE)
KW<-merge(KW, n.FV.year, by="year", all=TRUE)
KW<-merge(KW, n.WA.year, by="year", all=TRUE)
KW<-merge(KW, n.SA.year, by="year", all=TRUE)
KW<-merge(KW, n.PA.year, by="year", all=TRUE)
KW<-merge(KW, n.DATING.year, by="year", all=TRUE)
KW<-merge(KW, n.REL.year, by="year", all=TRUE)
KW[is.na(KW)] <- 0

KW.count <- ggplot(KW, aes(as.numeric(year), y=n, group=1, color=Keywords)) +
  geom_line(aes(y = DV, colour="Domestic Violence")) +
  geom_line(aes(y = IPV, colour="Intimate Partner Violence")) +
  geom_line(aes(y = BAT, colour="Battered/Battering"))+

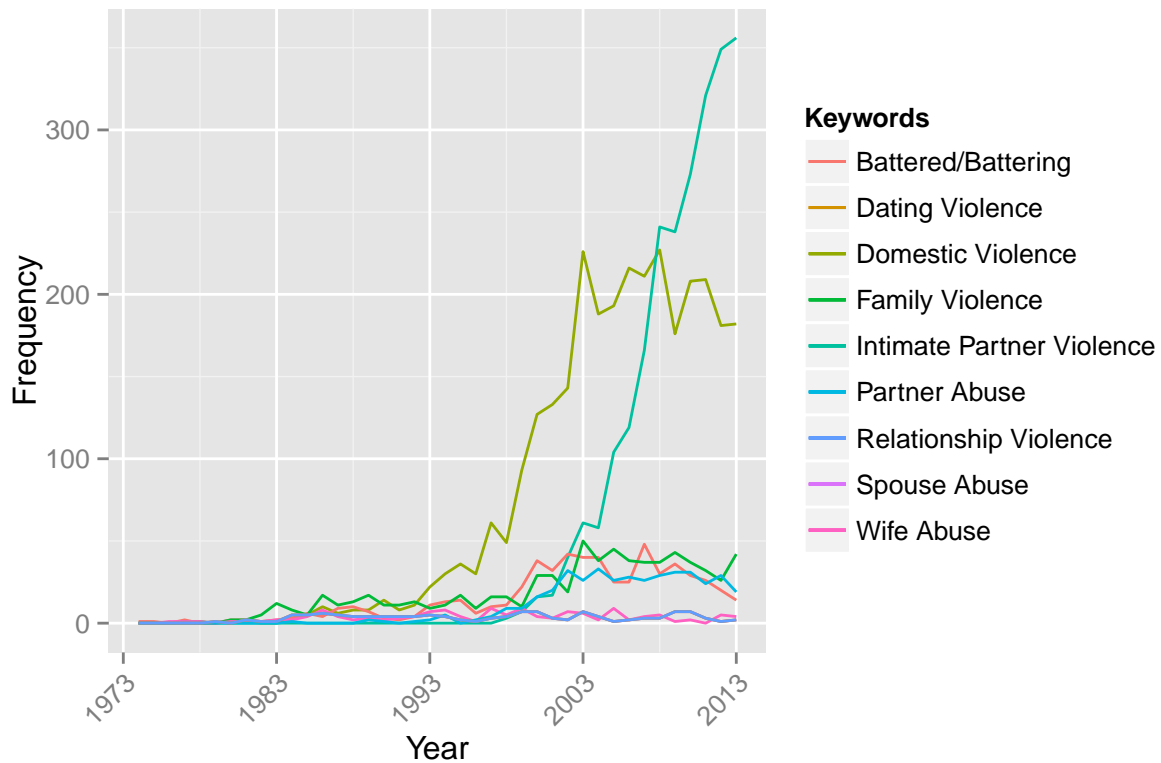
```

```

geom_line(aes(y = FV, colour="Family Violence"))+
geom_line(aes(y = WA, colour="Wife Abuse"))+
geom_line(aes(y = SA, colour="Spouse Abuse"))+
geom_line(aes(y = PA, colour="Partner Abuse"))+
geom_line(aes(y = DATING, colour="Dating Violence"))+
geom_line(aes(y = REL, colour="Relationship Violence"))+
theme(axis.text.x = element_text(angle = 45, hjust = 1)) +
xlab("Year") +
ylab("Frequency") +
ggtitle("") +
scale_x_continuous(breaks=seq(1963, 2013, 10))

print(KW.count)

```



Journal Analysis by keyword search

```

n.so.yr <- filter(KW.df, attributes == "SO" | attributes == "YR")

n.so <- filter(KW.df, attributes == "SO") %>% mutate(title = record) %>%
  select(-attributes, -record)

n.yr <- filter(KW.df, attributes == "YR") %>% mutate(year = record ) %>%

```

```

select(-attributes, -record)

n.yr<-filter(n.yr, year<=2013)

n.so.yr <- merge(n.yr, n.so) %>%
  group_by(title) %>%
  summarise(first = min(year), last = max(year), n.to.date = n()) %>%
  arrange(desc(n.to.date))

# 15 highest number of publications
head(n.so.yr, 15)

```

```

## Source: local data frame [15 x 4]
##
##               title first last n.to.date
## 1      Journal of Interpersonal Violence 1987 2013      547
## 2              Violence Against Women 1997 2013      434
## 3      Journal of Family Violence 1986 2013      422
## 4      Violence and Victims 1986 2013      287
## 5 Journal of Aggression, Maltreatment & Trauma 1999 2013      160
## 6      Aggression and Violent Behavior 1996 2013       88
## 7      Child Abuse & Neglect 1983 2013       75
## 8      Trauma, Violence, & Abuse 2000 2013       73
## 9      Partner Abuse 2010 2013       67
## 10 Children and Youth Services Review 1993 2013       62
## 11      Social Science & Medicine 1994 2013       55
## 12      Journal of Family Psychology 1993 2013       54
## 13      Journal of Women's Health 1992 2013       53
## 14      American Journal of Public Health 1998 2013       51
## 15      American Journal of Preventive Medicine 1996 2013       43

```

Google Trend Data

