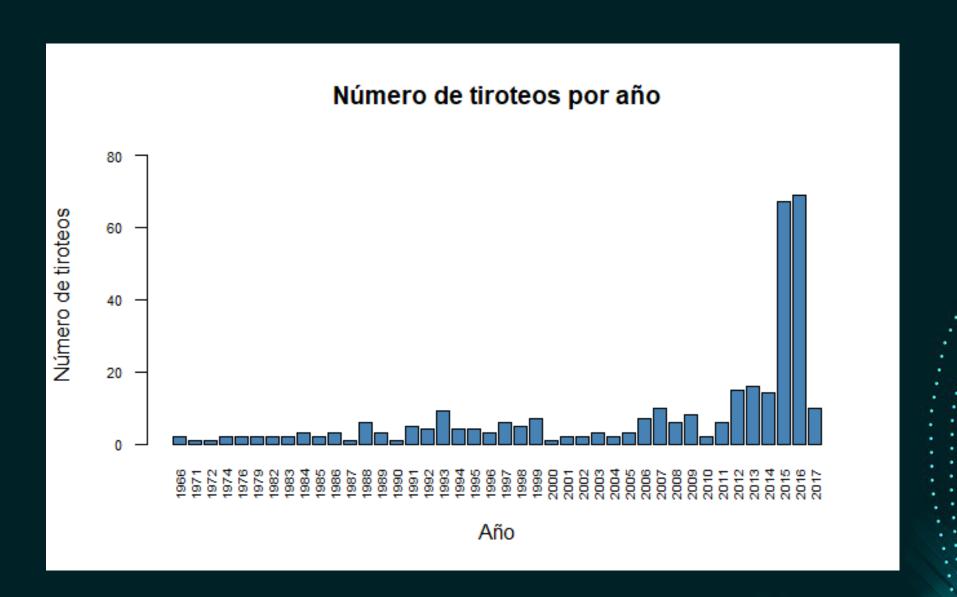
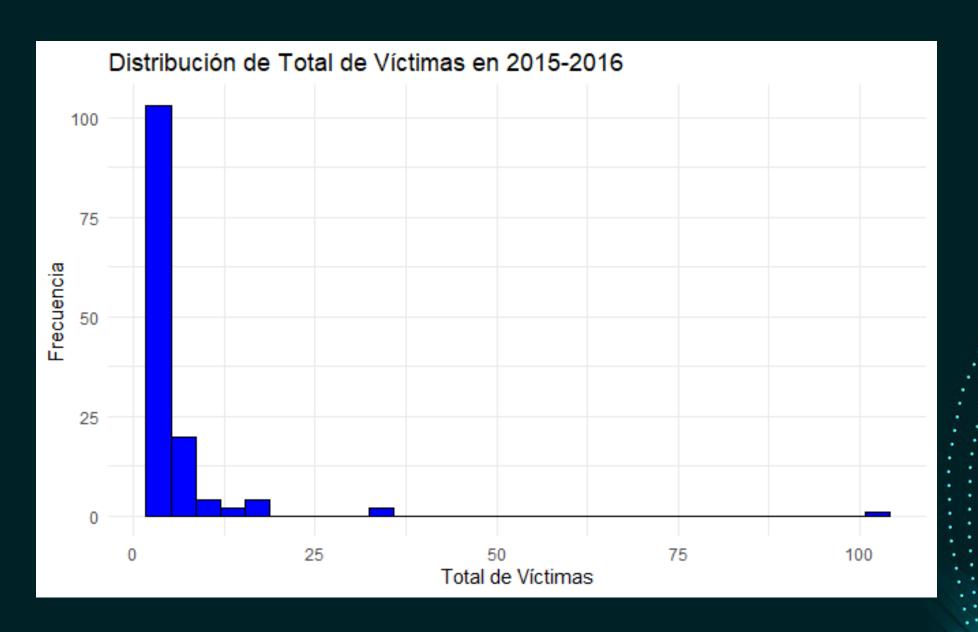
## PROYECTO FINAL

# US MASS SHOOTINGS

Laura Llorente Martínez 3° MAIS **Title** Location **Date Incident.Area Open.Close.Location Target Cause Summary Fatalities Injured** 

**Total.victims** Policeman.Killed Age **Employeed.Y.N. Employed.at** Mental.Health.Issues Race **Gender** Latitude Longitude





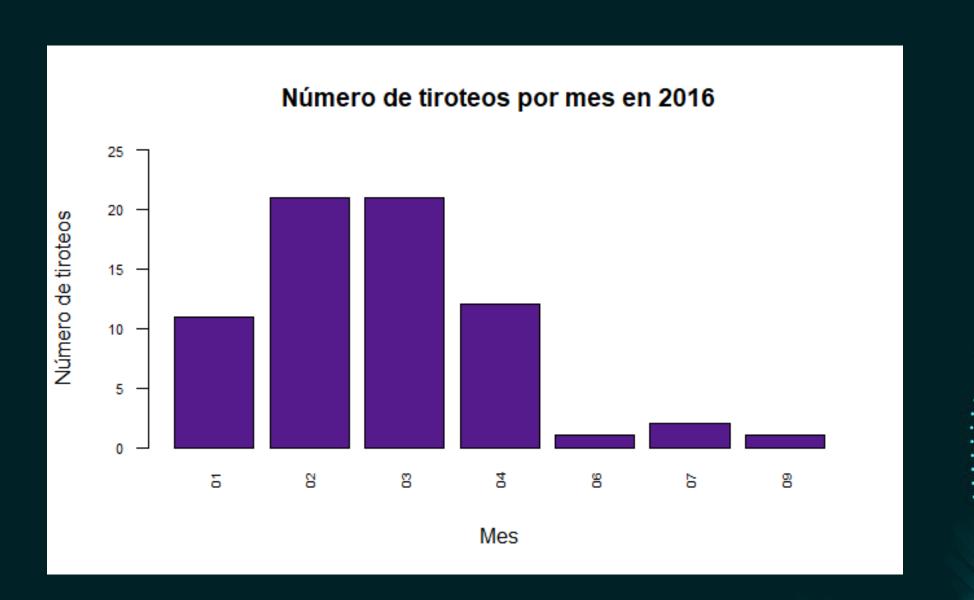
~ 100 víctimas → Omar Mateen, 12 junio 2016, 40 fatalidades, club nocturno Pulse, Orlando Florida

## Número de tiroteos por mes en 2015 Número de tiroteos Mes

### Librería leaflet



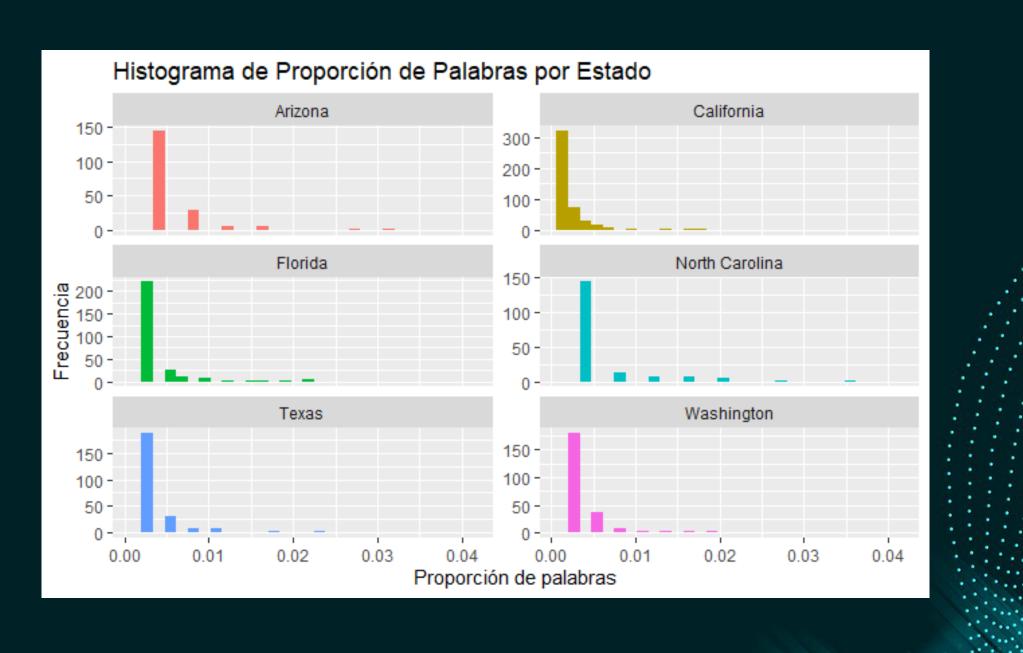
Destacan círculos grandes en California (San Bernardino mass shooting terrorista) y Oregon



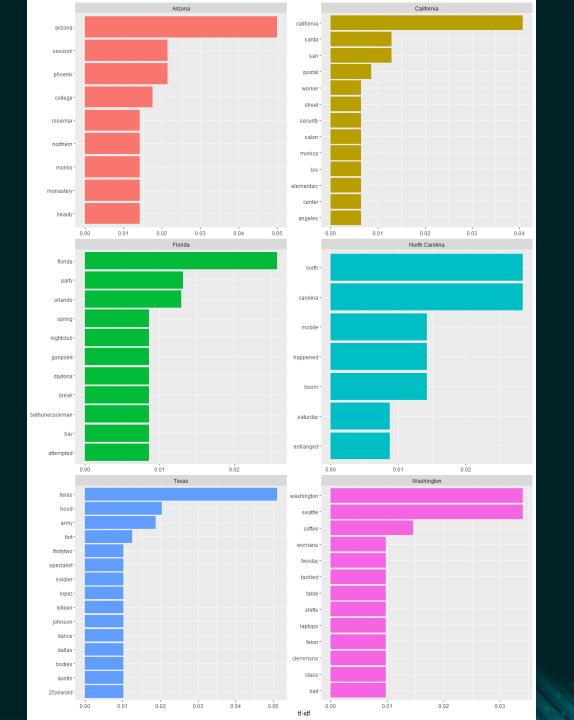
### Librería leaflet

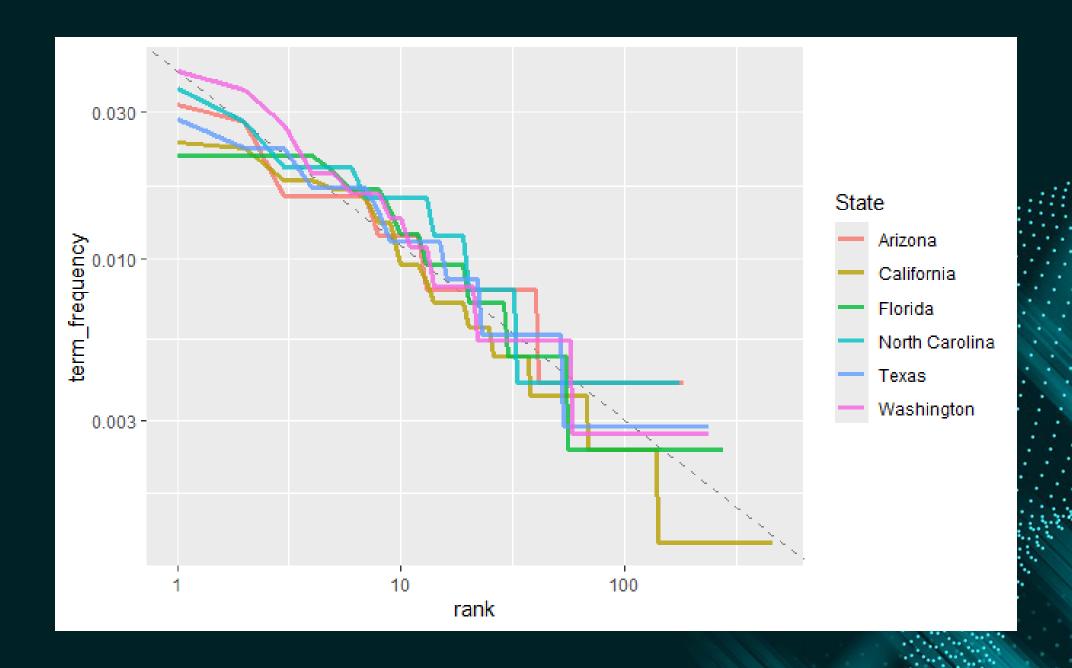


# LEY DE ZIPF

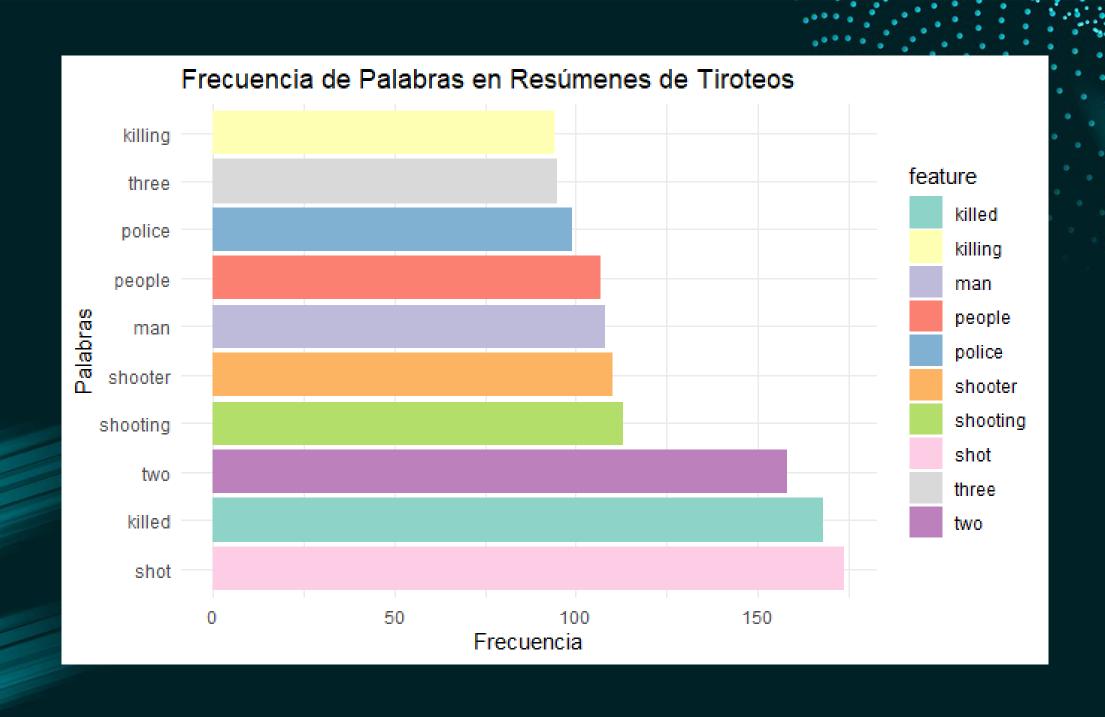


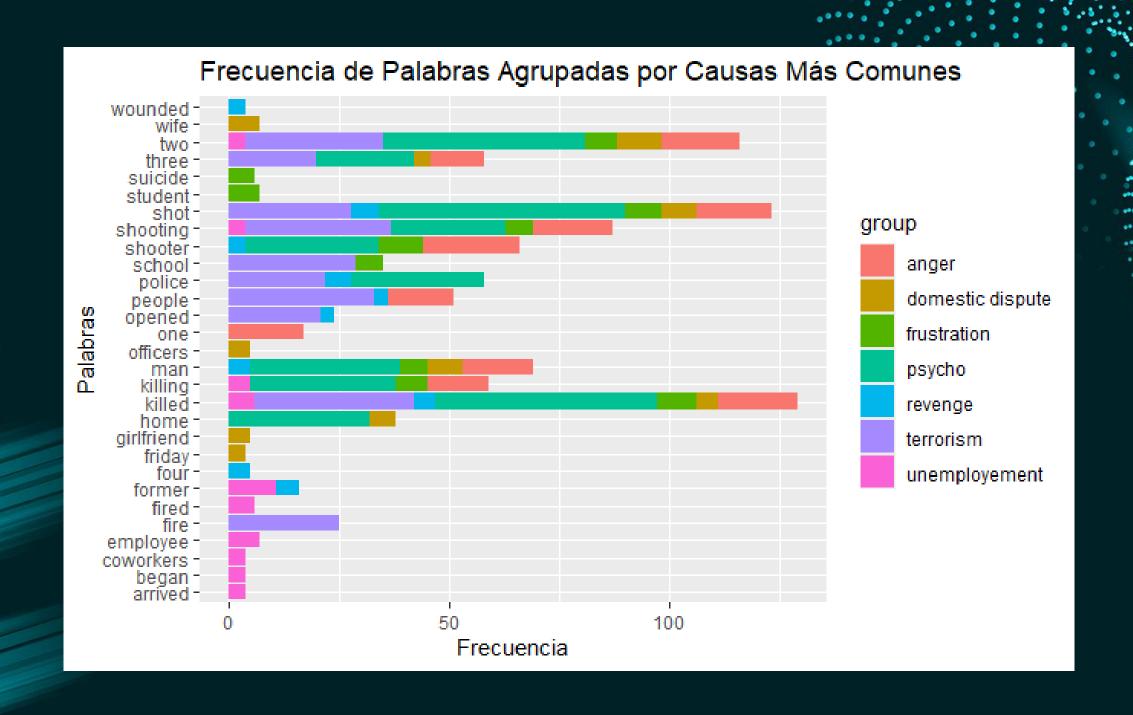
## CÁLCULO TF-IDF





# PALABRAS FRECUENTES

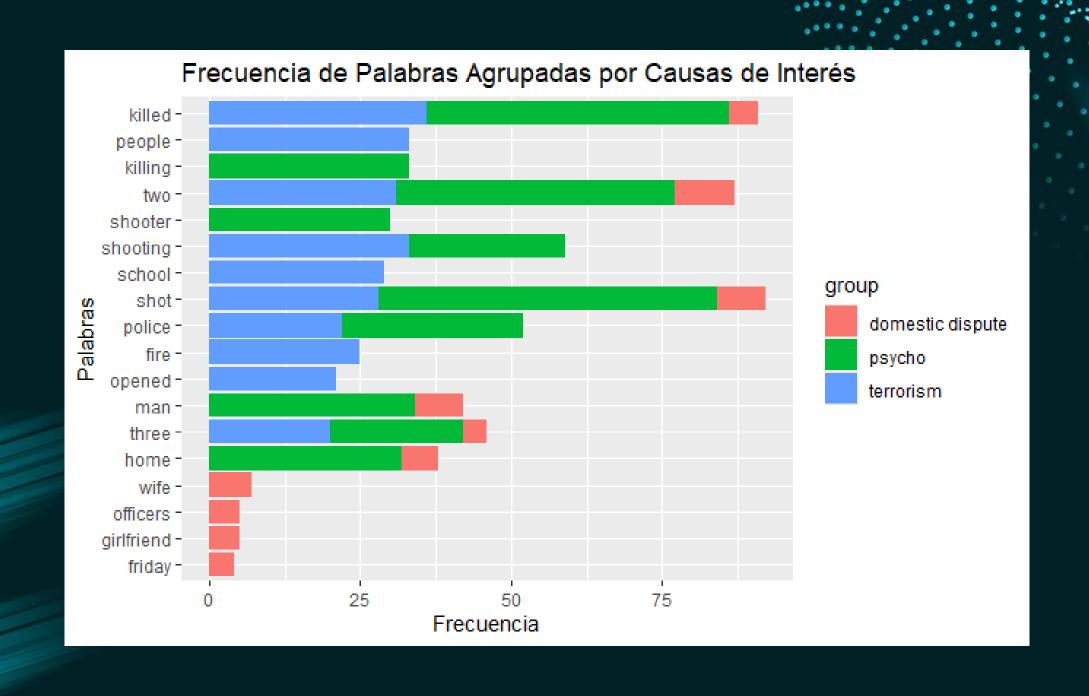




apprehended committed tumingworkplace november attack boyfriend dub gunman building sunday pulled parking employee high gun committing iune early worked Mday office state Otherswound went including y wounding shot carfour scene broke fire old fivestreet may young february injured victims fired inside bus girlfriend students injuring campus several person postofficers apartment saturday coworkers carolina incidentnight unemployed

former workplace shooting killed apprehended police shooter later arrived\_campus 15-year-old student two wounding house\_party elementary\_school ficeing scene state university four otherspeople\_wounded student entered estranged wife people\_including two\_students family members fire inside man\_shotfatally\_shot\_shot\_four two\_people old\_man police\_officer wife\_two killing four killing\_one fled\_scene four\_people shot two arrived school killed police 11911. man opened others arrested middle\_schoolkilling two 14-year-old student early morning opened fire police officers fired upon opened fire injured another wounded another shooting killing\_three old former found dead five people south carolina group peoplekilled\_four+jone mantwo\_men three\_people post\_office wounded three two otherskilled two wounded four killed three later arrested wounding four shooter killedshot three people shot committed suicide killed wife injuring three gunman shotwounding two started shooting people injuringfive others two children shooting students shooting killing people killed arrested police

# WORDCLOUDS POR CAUSA



### **TERRORISM**

steven unemployed custody aubum seriously shots found county upon floormass happened ages members afternoon 15-year-old thirty-two target suspectedgroup custodianenforcementkazmierczak commencing inland elementary critically november 16-year-old 18-year-old cleveland south scene hall morning including mall me arkansas large officer held men students outside employees shooters fello shooters fellowohio another left officers complex raduate injuring KIIIIng six killed house ten october around staff around city nearby los twelve injured worker killed police city nearby peoplefire streets laterold party saturday arrested suicide college leaving planned bedroom texas tort center died takerwalking school's december committing occurred austin amy like shootings room building january planning prognant seven teacher apartment september washington angeles identified encounteriune football rose-mar central

children\_waiting cleveland\_elementary rose-mar college kazmierczak opened later\_arrested injuring three killing\_one university texas regional center killing wounding taken custody entered conference pregnant\_woman school\_shooting college beauty inland regional student\_entered people\_injuring city\_hall two\_students people\_wounded shooting wounded two\_shooters fired\_rounds shooter\_killed law\_enforcement conference room five\_people killed\_police killed\_two 15-year-old\_student three victims two\_people two others turning gun dinic shot injured another five wounding fled scene three people critically wounded wounding two fired upon state university fire lecture people killed students killed 18-year-old\_highshot\_three 22-year\_old hall\_shotkilling\_five high\_school victims\_shot committing suicide police\_officer shooting\_occurred elementary\_school killed\_three ages\_arrived los\_angeles people\_including people\_injured taking\_life seven people police arrived wounded shooting council members school\_began told\_people.arrived\_schoolopening\_fire\_ three others saturday\_alternoon morning\_aprilshooting\_classmates wounded\_shooter gunman\_opened man\_entered morning\_january arrested outside steven kazmierczak

### **PSYCHO**

rimal com garpains
constant Alleger variety
spariment stop 17-year-old university paint
constrained make gunshot se-gatitembe reages brought brought and order postal monical V visiones of formation
45-year session estranged cousins forced/med allements
random committed want water many
20-year georgia ex-wife members december infant moved
entire years army committing injuring put officer server 444000 (Nebry
employees middle drove fired formersuicide nece gun grandmother seemely gun grandmother seemely
natival vegicial train father all ested five people hand
hodapa acopad several high NO ICO I III
commuters leave deadfort high DOILCE KILLING, worked somewhat severed
sating ground Sister Children market
tour february athors tour february
steeter's hours day Ott 1615
wife business parentsWen[Call   Wounded 42-year-old bits
Pally make six march or old . I good students of or country
standard nearbyant Wille ord
mental person another III e Throo ex-wife's mutang
such residence per concerns concerns and the concerns and
thereads: santa SChool
header tune fatally mother two mothers and the began days stabbed the female tune fatally mother two manufactures had
trained street one student country injured loft one student campus including
shapping post Chooter anive found woman historia assistant
modern March March 1997
the state of the s
tree october 110000
this teachers returned office family entered outside took turning total
granular (New policibles would full fig be ileften to a family day of the second
Charte bosoital meeting teacher 19-year-old
victims wednesday workerdaughtersstoretectmen
18-year-oid parent ammunition seven proceeded confronted sea rive
44-year-old snyone montally florida attack shocks boyospecialist
learnings reliables murdered station nursing apprehensied community to the community of the
approximated approached number gradus continued
100 000

```
early_morning
                                 entered_home shooter_went 40-year_old
                  shooter_enteredinjuring_three children_went police_closed
20-year_oldex-girlfriend's_home domestic_violence
      another_county shooting_man north_carolina
    drove_another_shot_head another_person_georgia_home_red_lake
killing_four others_committing
                                            injured another two_teenage
two_police son_shot wounded_two shooter_shot fled_scene wounded_two shooter_shot
                                                                found dead
                                                            others arrested
      fled_scene https:// killed_four shot_injured police_officer two_wounding
   shot four officer_shot killing_three killing_two
                                                            four people
       family_membershigh school days_later
                                                          shot\_three^{fort\_hood}
  <sup>two</sup>_days</sup>man went
  two_others opened fire shot_three tort_no two_others opened fire family_home killed_three shot_two mothers two mothers two
    ir_others began_shooting two children house_fire began_shooting two children estranged_wife old_manman_entered
four_others
mother_sister also shot Al
     also_shot three_people man_shot wife_worked killed_shooter three_people man_shot wife_worked
killed_shooter tillee_people tild found_shot open_fire
confronted_police committed_suicide two_cousins old_killed
two_neighbors fatally_shooting later_foundkilled_two fatally_shot
  january_man two young Shooter drove Wounding_two two_students
        new_mexico shooter_later shooter_killed three_family
 old_woman gunned_four_Santa_monica killed_motherarmy_specialist
       two_daughters shot_shooter may_shooter
        killed_police shooting_killing shooter_left december_man
```

### **DOMESTIC DISPUTE**

first officerfollowing

dead

gunman family apartment daughter boyfriend

walked morning
holed home
liveddomestic shot girlfriend's

girlfriend two standoff sons military
incident victims man family apartment daughter boyfriend

walked morning
wife suicide children
standoff sons military
three sister fridaykill
shooting killed officers violence
former inside officers violence
suspected fire people dispute

man\_flushed tear gas shoot girlfriend help girlfriend phoned\_officer included\_stint suffered\_post-traumatic near juka disorder\_followingformer\_soldier next\_man shot\_family stint\_iraq man\_shot<sub>rural\_</sub>alabama bystander trying around\_9am two\_boys inside\_residence daughter\_injure career\_included year\_old boys\_turned girlfriend's\_sister man\_shoot\_shooting\_wife domestic\_violence 9am\_friday soldier fatally young\_childrenthree others sons home turned\_gunfirst\_floor\_shot\_killed\_initially\_shot fatally\_shot man\_killed friday morning victims\_initially dispute\_ledtwo\_young killed\_Wife s\_home kill\_next usband murders husband murders sons\_friday WITE TWO family\_s trying\_help shot\_inside man\_suspected explanation\_offered suspected\_shooting two\_sons suicide\_explanation wife\_injures three\_Victims dead\_three led\_man suicide\_explanation shot\_wife domestic\_dispute committing\_suicide children\_set shot\_girlfriend children\_committing fire\_killing set\_house sister\_boyfriend commits\_suicide set\_house sister\_boyfriend two\_children roof\_shot office\_say residence\_shotgun\_murders\_wife following\_militaryinjures\_two home\_rural military\_career left\_one girlfriend\_kill\_alabama\_commits\_stress\_disorder killing\_sufferedpost-traumatic\_stress going\_kill\_kill\_daughter injure bystander

# TOPIC MODEL

#### Topic 1 Topic 2

campus student
high California one
entered injuring
arrested opened later
began another oldscene
teacher
wounding formerwent police
five man fireoffice school
students homewounded
gun others suicide
committing officer
arrived fired wife

#### Topic 3

five delident scene five woundinghigh later teacher arrested arrived began school student end fire others old student injuring policewife home one california went campus suicide

#### Topic 5

campuschildren
officer Suicide california
arrested another five
wounded others former arrived
entered police later scene
one fire old
studentsgun school
office student firedwent
injuring teacher high
man began
woundinghome
committing

#### campus

fired injuring
teacher students
another entered children
wangun old wounded went
suicide later school fivehome
beganstudent arrived officer
one opened committing
california wife high
police scene
wounding

#### Topic 4

home officer entered wounded campus wife school high others injuring laterfire went old gun arrived office five student students fired one suicidepolice one opened teacher woundingarrested committing began california former

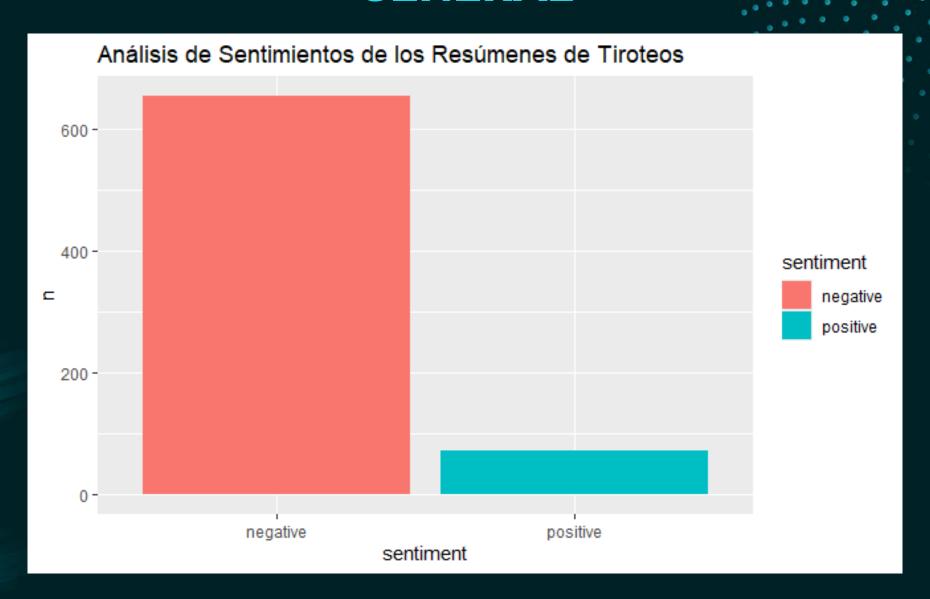
#### Topic 6

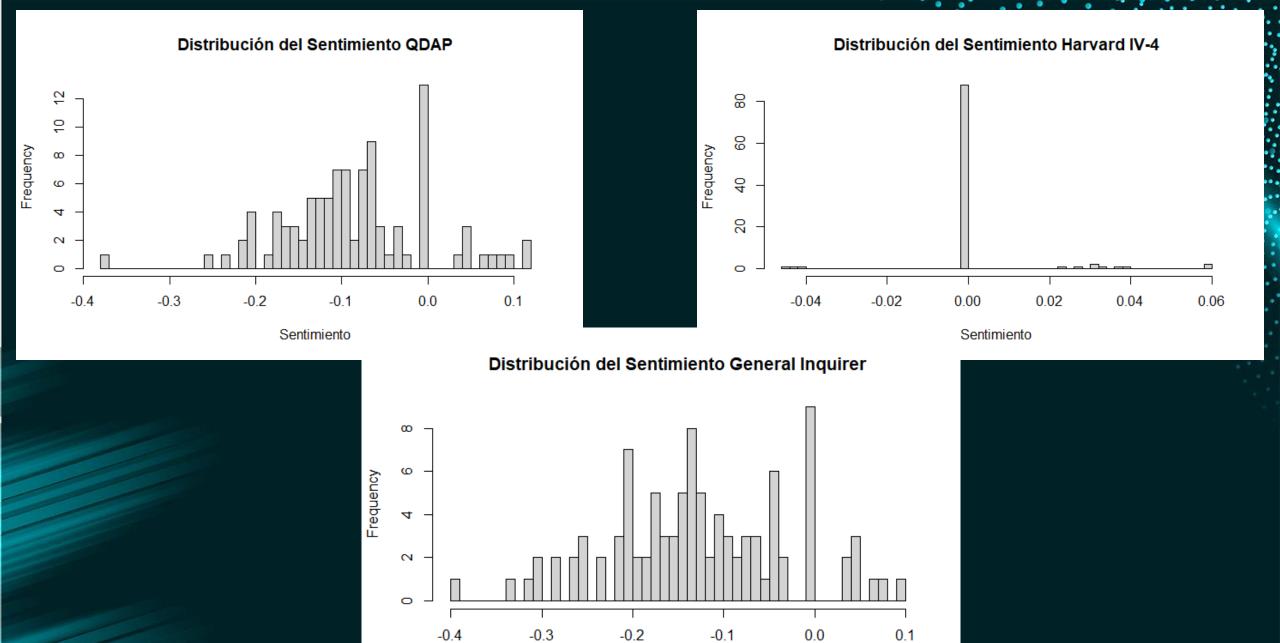
wounding injuring others wounded suicidefive police california teacherman arrested went office later former one high scene studentschoolanother gunentered children arrived beganfire fired campus students committing old



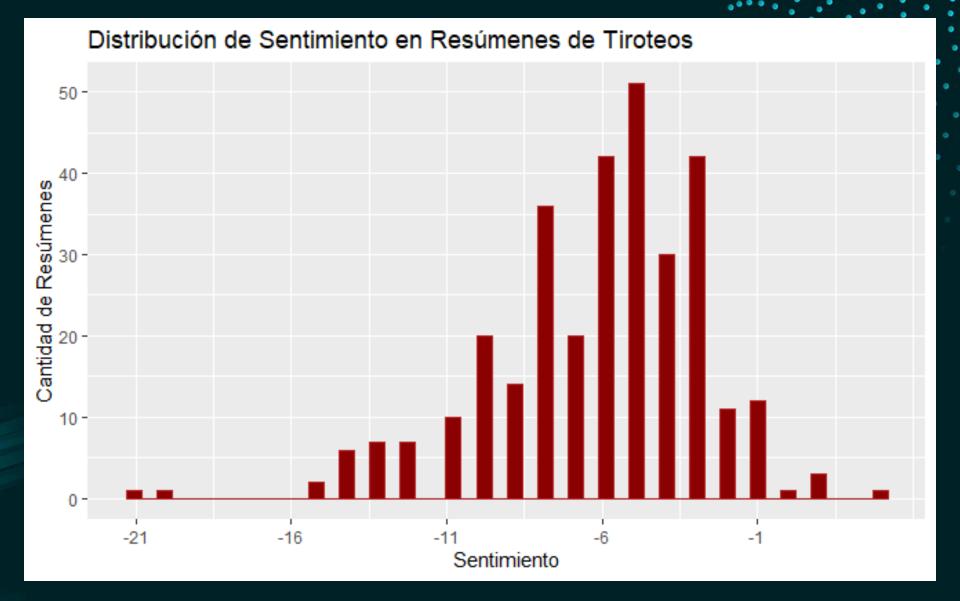
# SENTIMENT ANALYSIS

## **GENERAL**

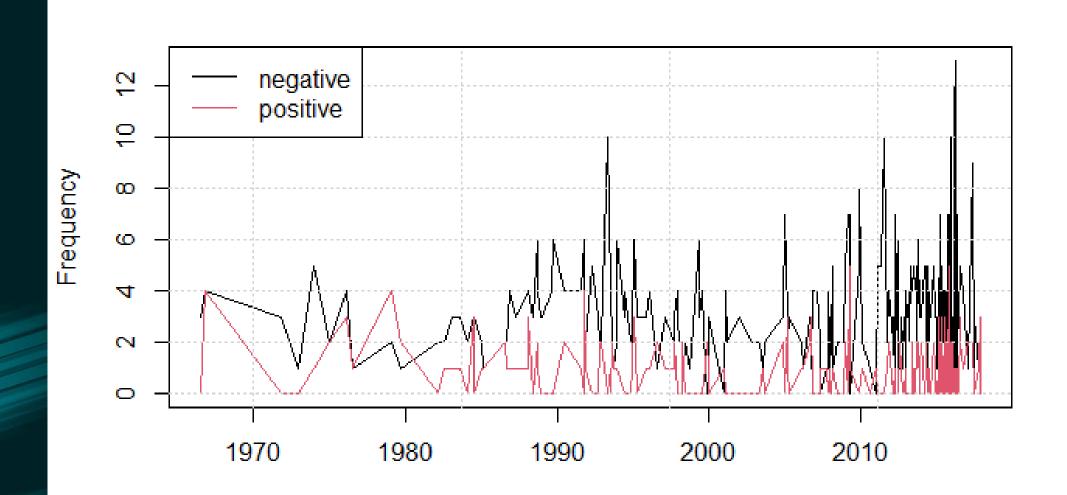




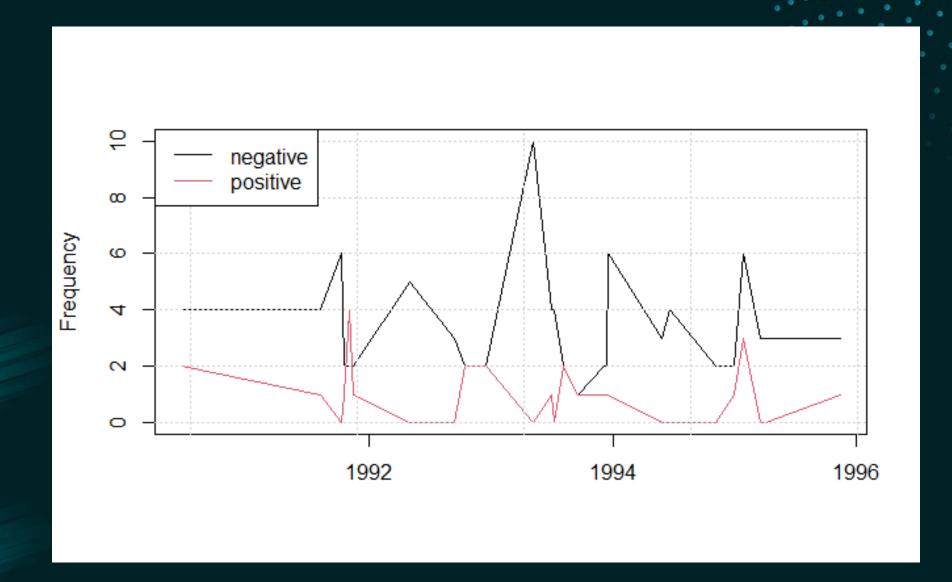
Sentimiento

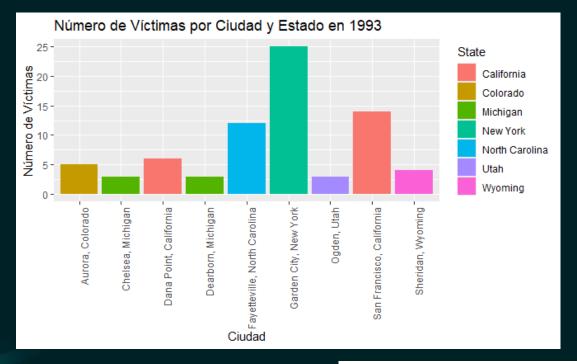


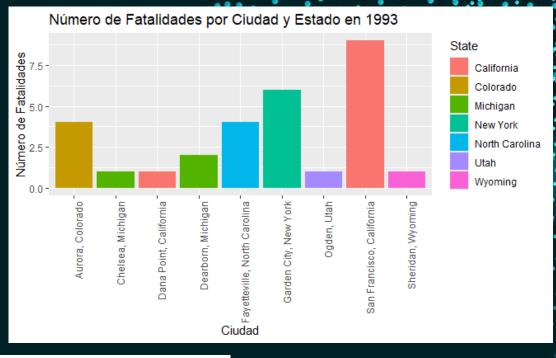
-21 → 10 marzo 2009, Geneva, Alabama, trabajador 28 años -20 → Fresno, California, Kori Ali Muhammad, no vínculos terroristas +3 → 14 agosto 2013, hombre obsesionado patológicamente con Selena Gómez



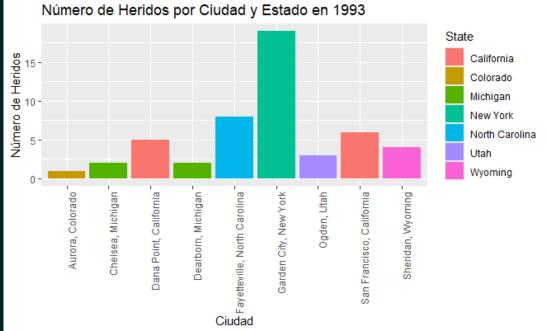
## Sentiment Analysis 1990-1995





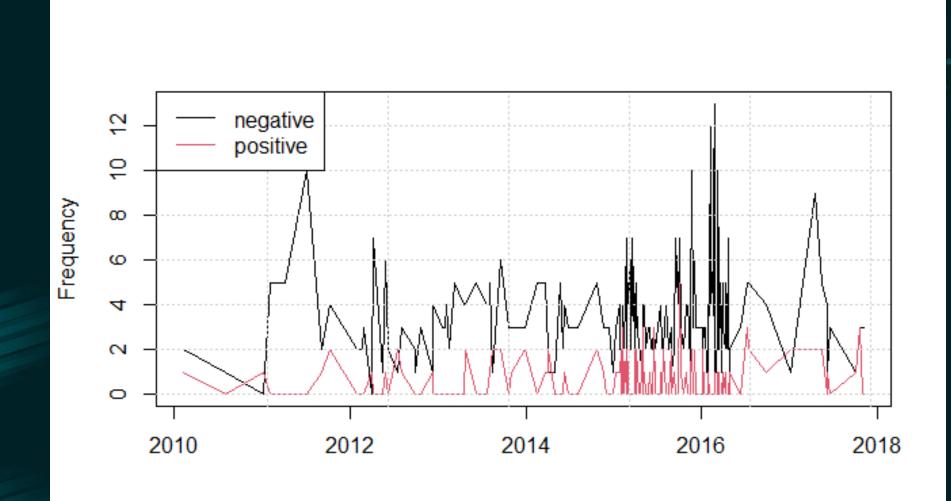


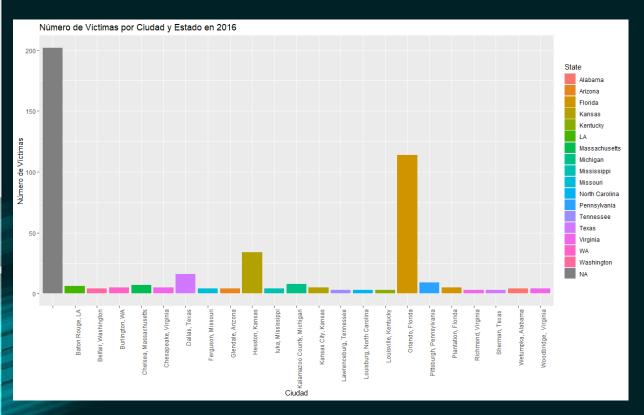
**Nueva York** 

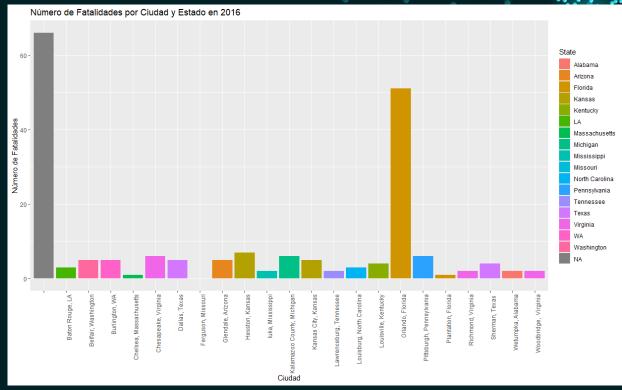


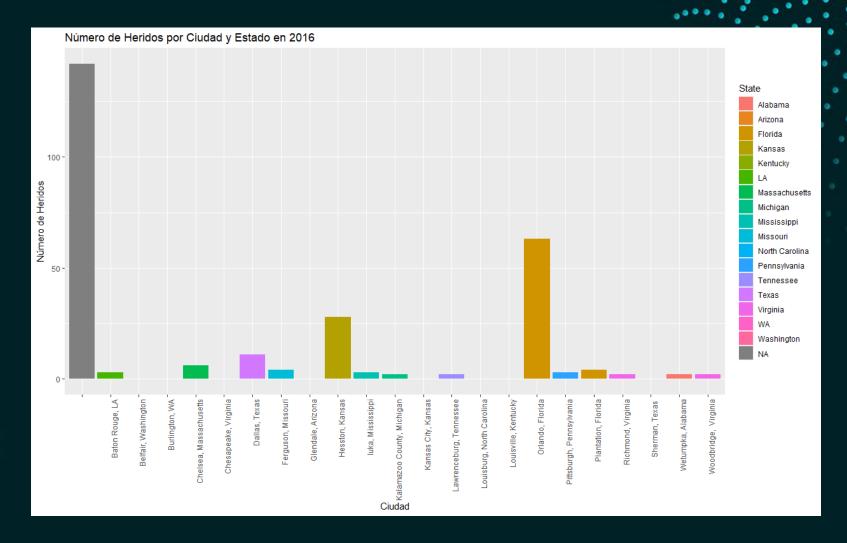
7 diciembre 1993 Colin Ferguson Pasajeros tren Long Island Rail Road 6 fatalidades, 19 heridos y 25 víctimas

## Sentiment Analysis 2010-2017









### **Florida**

12 junio 2016 Omar Mateen Tiroteo masivo en club nocturno Pulse, en Orlando, Florida 49 fatalidades, 53 heridos y 102 víctimas

### **STATE**

