```
import pandas as pd
import matplotlib.pyplot as plt
from transformers import AutoTokenizer, AutoModelForSequenceClassification
import torch
from tqdm import tqdm
from wordcloud import WordCloud
import seaborn as sns
```

```
df = pd.read_csv('abcnews-date-text.csv')
df['publish_date'] = pd.to_datetime(df['publish_date'], format='%Y%m%d')
df['year'] = df['publish_date'].dt.year
```

```
# Load the tokenizer and model
model_name = "distilbert-base-uncased-finetuned-sst-2-english"
tokenizer = AutoTokenizer.from_pretrained(model_name)
model = AutoModelForSequenceClassification.from_pretrained(model_name)
```

```
/usr/local/lib/python3.10/dist-packages/huggingface_hub/utils/_auth.py:94: UserWarning:
The secret `HF_TOKEN` does not exist in your Colab secrets.
To authenticate with the Hugging Face Hub, create a token in your settings tab (https://huggingface.co/settings/tokens), set it as s
You will be able to reuse this secret in all of your notebooks.
Please note that authentication is recommended but still optional to access public models or datasets.
  warnings.warn(
tokenizer_config.json: 100%  48.0/48.0 [00:00<00:00, 709B/s]
config.json: 100%  629/629 [00:00<00:00, 13.3kB/s]
vocab.txt: 100%  232k/232k [00:00<00:00, 1.12MB/s]
model.safetensors: 100%  268M/268M [00:01<00:00, 192MB/s]
```

```
device = torch.device("cuda" if torch.cuda.is_available() else "cpu")
model.to(device)
```

```
DistilBertForSequenceClassification(
  (distilbert): DistilBertModel(
    (embeddings): Embeddings(
      (word_embeddings): Embedding(30522, 768, padding_idx=0)
      (position_embeddings): Embedding(512, 768)
      (LayerNorm): LayerNorm((768,), eps=1e-12, elementwise_affine=True)
      (dropout): Dropout(p=0.1, inplace=False)
    )
    (transformer): Transformer(
      (layer): ModuleList(
        (0-5): 6 x TransformerBlock(
          (attention): DistilBertSdpaAttention(
            (dropout): Dropout(p=0.1, inplace=False)
            (q_lin): Linear(in_features=768, out_features=768, bias=True)
            (k_lin): Linear(in_features=768, out_features=768, bias=True)
            (v_lin): Linear(in_features=768, out_features=768, bias=True)
            (out_lin): Linear(in_features=768, out_features=768, bias=True)
          )
          (sa_layer_norm): LayerNorm((768,), eps=1e-12, elementwise_affine=True)
          (ffn): FFN(
            (dropout): Dropout(p=0.1, inplace=False)
            (lin1): Linear(in_features=768, out_features=3072, bias=True)
            (lin2): Linear(in_features=3072, out_features=768, bias=True)
            (activation): GELUActivation()
          )
          (output_layer_norm): LayerNorm((768,), eps=1e-12, elementwise_affine=True)
        )
      )
    )
  )
  (pre_classifier): Linear(in_features=768, out_features=768, bias=True)
  (classifier): Linear(in_features=768, out_features=2, bias=True)
  (dropout): Dropout(p=0.2, inplace=False)
)
```

```
# Batch processing function
def process_batches(texts, batch_size=32):
    for i in range(0, len(texts), batch_size):
        batch = texts[i:i + batch_size]
        inputs = tokenizer(batch, padding=True, truncation=True, return_tensors="pt", max_length=128).to(device)
        with torch.no_grad():
            outputs = model(**inputs)
        yield torch.nn.functional.softmax(outputs.logits, dim=-1)
```

```
# Calculate sentiments
all_sentiments = []
```

```
for batch_predictions in tqdm(process_batches(df['headline_text'].tolist()), total=len(df) // 32 + 1):
    all_sentiments.extend(batch_predictions[:, 1].tolist())  # Positive sentiment scores

df['sentiment'] = all_sentiments
```

```
100%|██████████| 36278/36278 [09:10<00:00, 65.89it/s]
```

```
# Aggregate sentiment by year
sentiment_by_year = df.groupby('year').agg({
    'sentiment': 'sum',
    'headline_text': 'count'
}).rename(columns={'sentiment': 'positive_score', 'headline_text': 'headline_count'})

sentiment_by_year['negative_score'] = sentiment_by_year['headline_count'] - sentiment_by_year['positive_score']
sentiment_by_year['positive_ratio'] = sentiment_by_year['positive_score'] / sentiment_by_year['headline_count']


# Save to CSV
sentiment_by_year.to_csv('sentiment_by_year.csv', index=True)


# Plot 1: Positive and Negative Headline Counts
plt.figure(figsize=(15, 8))
bars = plt.bar(sentiment_by_year.index, sentiment_by_year['positive_score'], label='Positive', color='green')
bars_neg = plt.bar(sentiment_by_year.index, sentiment_by_year['negative_score'],
                   bottom=sentiment_by_year['positive_score'], label='Negative', color='red')

plt.xlabel('Year')
plt.ylabel('Number of Headlines')
plt.title('Sentiment Analysis of Headlines by Year (Using DistilBERT)')
plt.legend(loc='upper left')
```

```
<matplotlib.legend.Legend at 0x7b8d078931f0>
```

```
# Add percentages to the bars
def add_percentages(bars, bars_neg):
    for bar, bar_neg in zip(bars, bars_neg):
        total = bar.get_height() + bar_neg.get_height()
        if total > 0:  # Avoid division by zero
            positive_percentage = (bar.get_height() / total) * 100
            negative_percentage = (bar_neg.get_height() / total) * 100

            # Add positive percentage to positive bar
            plt.text(
```

```
                bar.get_x() + bar.get_width() / 2,
                bar.get_height() / 2,
                f'{positive_percentage:.1f}%',
                ha='center',
                va='center',
                rotation=90,
                color='white',
                fontweight='bold'
            )

            # Add negative percentage to negative bar
            plt.text(
                bar_neg.get_x() + bar_neg.get_width() / 2,
                bar.get_height() + bar_neg.get_height() / 2,
                f'{negative_percentage:.1f}%',
                ha='center',
                va='center',
                rotation=90,
                color='white',
                fontweight='bold'
            )

# Set the figure size explicitly
plt.figure(figsize=(15, 8))

# Plot the bars
bars = plt.bar(sentiment_by_year.index, sentiment_by_year['positive_score'], label='Positive', color='green')
bars_neg = plt.bar(
    sentiment_by_year.index,
    sentiment_by_year['negative_score'],
    bottom=sentiment_by_year['positive_score'],
    label='Negative',
    color='red'
)

# Add percentages
add_percentages(bars, bars_neg)

# Add titles and labels
plt.xlabel('Year')
plt.ylabel('Number of Headlines')
plt.title('Sentiment Analysis of Headlines by Year (Using DistilBERT)')
plt.legend(loc='upper left')

# Adjust layout to prevent overlaps
plt.subplots_adjust(left=0.1, right=0.9, top=0.9, bottom=0.1)

# Display the plot
plt.show()
```

```
# Plot 2: Positive Sentiment Ratio Over Time
plt.figure(figsize=(15, 8))
sns.lineplot(x=sentiment_by_year.index, y=sentiment_by_year['positive_ratio'], marker='o', color='blue')
plt.title('Positive Sentiment Ratio by Year')
plt.xlabel('Year')
plt.ylabel('Positive Sentiment Ratio')
plt.grid(True)
plt.show()
```

```
# Plot 3: Sentiment Score Distribution
plt.figure(figsize=(15, 8))
sns.histplot(df['sentiment'], bins=50, kde=True, color='purple')
plt.title('Distribution of Sentiment Scores')
```

```
plt.xlabel('Sentiment Score')
plt.ylabel('Frequency')
plt.show()
```

```
# Word Clouds for Positive and Negative Headlines
for year in sentiment_by_year.index:
    yearly_data = df[df['year'] == year]
    positive_texts = " ".join(yearly_data[yearly_data['sentiment'] > 0.5]['headline_text'].tolist())
    negative_texts = " ".join(yearly_data[yearly_data['sentiment'] <= 0.5]['headline_text'].tolist())

    wordcloud_pos = WordCloud(width=800, height=400, background_color='white').generate(positive_texts)
    wordcloud_neg = WordCloud(width=800, height=400, background_color='black').generate(negative_texts)

    # Positive Word Cloud
    plt.figure(figsize=(15, 8))
    plt.imshow(wordcloud_pos, interpolation='bilinear')
    plt.title(f'Positive Headlines Word Cloud ({year})')
    plt.axis('off')
    plt.show()

    # Negative Word Cloud
    plt.figure(figsize=(15, 8))
    plt.imshow(wordcloud_neg, interpolation='bilinear')
    plt.title(f'Negative Headlines Word Cloud ({year})')
    plt.axis('off')
    plt.show()

# Highlight Most Positive and Negative Headlines
top_positive = df.nlargest(10, 'sentiment')[['headline_text', 'sentiment']]
top_negative = df.nsmallest(10, 'sentiment')[['headline_text', 'sentiment']]

print("Top 10 Positive Headlines:")
print(top_positive)

print("\nTop 10 Negative Headlines:")
print(top_negative)
```

Positive Headlines Word Cloud (2003)

Negative Headlines Word Cloud (2003)

call
say
report
iraq
claim
new
plan
council
death
protest
attack
court
police
hospital
killed
seek
man
nsw
back
iraqi
union
pm
sars
doctor
fire
decision
fear
ban
consider
may
nt
bush
two
case
lose
woman
former
cut
strike
saddam
threaten
accident
australia
bid
staff
die
mp
hit
hope
concern
talk
will
take
injured
school
act
leave
un
reject
defend
rain
regional
chief
service
budget
pay
make
rule
car
delay
cost
road
warning
change
govt
urged
dead
face
water
leader
release
wa
tas
qld
set
air
official
begin
law
aid
denies
work
push
expected
safety
bill
england
return
drug
group
review
australian
opposition
question
want
close
trial
drought
war
worker
funding
offer
vic
fall
british
aust
state
labor
charged
health
baghdad
melbourne
appeal
job
run
bomb
power
hold
kill
need
green
inquiry
support
target
threat
time
fund
home
warn
probe
murder
victim
us soldier
blast
study
search
industry
release
leader
security
arrested
alleged
found
play
sydney
continue
missing
minister
put
sa
urge
test
israel
pakistan
doctor
help
facing
drought
farmer
doubt
problem
close
trial
fall
aust
state
labor
charged
health
baghdad
melbourne
consider
support
target
threat
time
tas
wa

Positive Headlines Word Cloud (2005)
new
win
plan
say
boost
council
take
govt
australia
support
record
group
fund
change
begin
hope
sydney
australian
wa
service
move
join
work
water
police
set
open
make
consider
lead
victory
national
welcome
offer
continue
return
back
aussie
claim
help
final
minister
talk
fight
top
community
meeting
keep
year
aust
china
qld
ahead
future
gets
local
power
world
rise
tour
urged
nsw
farmer
call
test
hit
review
indigenous
mayor
health
benefit
concern
sign
trial
visit
hold
act
case
mine
road
spark
business
celebrate
share
increase
lift
nz
profit
defend
perth
rain
tsunami
public
first
fire
head
face
job
go
put
study
named
security
iraq
home
sa
adelaide
project
regional
u
report
howard
tas
give
blue
storm
challenge
secure
leader
urge
expected
law
aid
chief
hewitt
worker
meet
election
deal
high
start
coast
gold
beat
program
discuss
praise
pope
nt
melbourne
issue
university
development
resident
school
family
see
student
women
england
appeal
sale
doctor
ready
reject
lion
big
mp
japan
game
gpm
confident
second
tourism
wont
host
eye
may
market
race
melbourne
show
promise
award
court
play
effort
india
clash
funding
man
industry
leader
tiger
honour
centre
airport
highlight
hospital
title
look
despite
will
way
blue
ahead
give
future
gets
state
local
review
home
sa
iraq
indigenous
hit
world cup
road
mine
case
act
secure
challenge
prepare
denies
concern
sign
trial
visit
hold
end
consider
make
open
talk
health
benefit
mayor
state
secure
challenge
urge
leader
act
case
profit
nz
increase
share
celebrate
business
spark
test
call

Positive Headlines Word Cloud (2006)

Negative Headlines Word Cloud (2006)

Positive Headlines Word Cloud (2007)

new
win
plan
council
boost
water
lead
make
sydney
say
back
open
police
rudd
australia
welcome
help
fire
hope
howard
return
sa
aussie
man
first
ahead
claim
work
govt
top
meet
election
national
record
tourism
rain
india
worker
face
leader
closer am1
centre
case
regional
australian
japan
chief
nt
deal
adelaide
vote
high
put
vic
report
genous
fund
school
tour
hit
move
melbourne
bush
star
discuss
education
start
sign
visit
qld
hold
pm
change
public
force
confirm
world cup
join
debate
honour
green
good
storm
project
hobart
farmer
state
iraq
pm1
closer
defend
final
community
concern
tas
keep
market
year
campaign
scientist
act
deal
adelaide
vote
high
put
vic
report
genous
fund
school
tour
hit
move
melbourne
bush
star
discuss
education
start
sign
visit
qld
hold
pm
change
public
force
confirm
world cup
join
debate
honour
green
good
storm
project
hobart
farmer
state
iraq
pm1
closer
defend
final
community
concern
tas
keep
market
year
campaign
scientist
act
head
wont
regional
australian
japan
chief
nt

Negative Headlines Word Cloud (2007)

police
say
call
new
plan
govt
council
deathback
report
labor
hospital
u
attack
drug
killed
reject
hit
vic
fire
protest
murder
howard
rudd
water
accused
urge
nt
need
iraq
funding
nsw
urged
face
push
court
help
die
pm
charge
fear
seek
missing
worker
car
farmer
ban
qld
end
will
sydney
home
concern
sa
man
state
cut
victim
union
case
minister
may
claim
fund
woman
continue
want
set
warn
school
aust
mp
green
kill
probe
teen
power
trial
two
stop
defend
man charged
release
move
appeal
work
hope
horse
flu
pulp mill
melbourne
indigenous
drought
health
change
doctor
family
jailed
inquiry
driver
warning
deal
resident
charged
search
threat
target
quit
rain
former
service
alleged
pakistan
threaten
teacher
review
test
storm
cost
issue
close
time
lose
delay
job
pay
take
police investigate
question
injured
remain
election
arrested
australia
aussie
student
industry
drop
dead
tas
blame
risk
lead
chief
found
put
road
denies
decision
climate change
national
bush
find
deal
warning
inquiry
driver
pulp mill
horse flu
work
hope
study
warn
want
set
continue
woman
fund
claim
union
may
case
minister
school
aust
urged
nsw
court
face
push
wa
help
fear
charge
pm
die
rudd
search
charged
missing
seek
teen
probe
power
mp
green
kill
campaign
murder
howard
protest
fire
labor
new
water
accused
report
hospital
car
farmer
worker
qld
ban
sydney
home
concern
sa
drug
vic
hit
killed
reject
attack
need
nt
urge
cut
man
state
head
play
will
end
still
cost
issue
close
time
lose
delay
job
pay
take
teacher
review
test
storm
victim
consider
expected
supports
cause
leave
china
drought
year
health
change
doctor
family
jailed
inquiry
driver
warning
deal
resident
charged
search
threat
target
quit
rain
former
service
alleged
pakistan
threaten

Positive Headlines Word Cloud (2009)

Negative Headlines Word Cloud (2009)

Positive Headlines Word Cloud (2010)

win
new
take
boost
aussie
set
green
call
sydney
water
speak
back
open
say
lead
plan
australia
fire
top
hit
hope
fight
promise
will
police
gillard
australian
power
minister
keep
rise
hold
support
year
join
student
abbott
honour
blue
canberra
change
obama
show
record
wont
deal
play
china
extended interview
indigenous
india
happy
labor
gold
farmer
business
sale
act
group
interview michael
law
miner
push
spark
race
offer
government
world
state
game
season
mayor
public
family
storm
world cup
swan
vic
brisbane
force
trial
ahead
move
raw
journe
despite
festival
court
team
afl
tourism
land
urged
govt
growth
vote
stay
job
visit
star
ready
mine
head
case
focus
close
sign
mining
forum
confident
challenge
meet premier
victory
eye
pm
put
red
fund
road
face
track
art
shire
sa
centre
blue
canberra
welcome
open
national
tourism
rudd
england
community
leader
title
life
service
share
still
qld
u
festival
court
keep
rise
hold
despite
extended interview
china
play
deal
record
plan
move
ahead
journe
raw
vic
trial
brisbane
force
world cup
storm
family
season
mayor
public
game
blaze
state
world
indigenous
india
happy
labor
gold
farmer
business
sale
act
group
interview michael
law
miner
push
spark
race
offer
government
power
minister
hold
australian
rise
keep

Negative Headlines Word Cloud (2010)

Positive Headlines Word Cloud (2011)

Negative Headlines Word Cloud (2011)

Positive Headlines Word Cloud (2012)

Negative Headlines Word Cloud (2012)

police
new
say
call
fire
death
plan
hospital
report
attack
government
back
nsw
protest
change
concern
want
lose
case
drop
miner
sydney
missing
die
jailed
ban
set
strike
leave
murder
risk
perth
share
market
mayor
hope
japan
need
run
cost
act
review
state
woman
shooting
take
rate
inquiry
search
will
fall
resident
dead
trial
power
farmer
fatal
hit
cut
push
claim
assault
injured
png
home
car
group
fined
jail
campaign
funding
worker
fight
green
mine
decision
urge
train
labor
driver
fund
canberra
opposition
court
water
accused
arrested
minister
probe
kill
seek
crash
victim
man charged
warning
defend
target
road
test
question
budget
two
work
house
continue
stop
rain
guilty
appeal
demand
price
may
qld
flood
australia
mining
wa
u
job
delay
threat
health
sa
industry
high
china
aussie
mp
australian
man
drug
bid
salestorm
warn
hunter
union
council
fear
former
teen
pay
alleged
still
found
return
abbott
syria
urged
charge
charged
school
bushfire
help
deal
service
job cut
head
near
family
pakistan
threaten
end
better
asylum seeker
gillard
go
control
close
talk
dead
trial
power
fatal
claim
cut
push
hit
farmer
fall
resident
assault
injured
inquiry
search
will
take
rate
fail
children
decision
train
urge
nt
farm
seek
law
qld
may
flood
queensland
un
australia
mining
job
delay
threat
high
former
centre
pm
student
election
year
bid
salestorm
warn
hunter
put
teen
pay
alleged
still
return
urged
abbott
syria
found
help
deal
service
job cut
charge
charged
school
bushfire
head
near
family
drug
guilty
aussie
mp
price
health
sa
industry
high
china
australian
man
union
council
fear
accused
water
court
death
hospital
plan
worker
fire
report
face
warning
defend
target
victim
man charged
crash
road
test
question
budget
two
work
house
continue
stop
rain
guilty
appeal
demand
price
may
qld
flood
australia
mining
wa
u
job
delay
threat
health
sa
industry
high
china
aussie
mp
australian
man
drug
bid
salestorm
warn
hunter
union
council
fear
former
teen
pay
alleged
still
return
urged
abbott
syria
found
help
deal
service
job cut
charge
charged
school
bushfire

Negative Headlines Word Cloud (2013)

say
police
new
council
fire
call
plan
death
australian
government
nsw
sydney
water
qld
man
attack
drug
farmer
face
will
hospital
report
back
australia
fear
concern
nrn
woman
china
worker
cut
hit
claim
accused
labor
school
court
coalition
push
budget
set
home
canberra
murder
election
mining
car
indonesia
injured
case
end
wa
job
trial
drought
flood
minister
ban
warning
lose
cattle
cost
continue
union
law
defend
charged
deal
killed
take
bid
leave
driver
arrested
queensland
die
may
need
bushfire
test
delay
closure
target
search
warn
road
near
close
fund
change
doctor
regional
run
threaten
year
fight
nt
state
seek
victim
industry
national
risk
gun
missing
alleged
housing
children
rate
syria
safety
demand
crash
green
arrest
campaign
rain
big
move
shooting
threat
gold coast
pm
csg
urge
inquiry
jail
women
assault
water
former
still
want
urged
money
site
price
work
teen
two
health
guilty
make
rule
time
staff
mp
child
service
appeal
melbourne
another
act
probe
sale
brisbane
head
review
abbott
opposition
canberra
protest
asylum seeker
resident
prison
stop
decision
question
jailed
india
rise
support
set
man charged
find
hunter
help
dead
big
sa
hope
debate
family
target
reject
strike
warn
deal
killed
take
bid
leave
hit
claim
die
may
need
queensland
arrested
driver
fall
safety
demand
charged
defend
law
union
syria
cost
continue
rate
children
housing
missing
alleged
lose
cattle
warning

Positive Headlines Word Cloud (2015)

australia
country
hour
win
new
say
australian
queensland
world
cup
first
open
farmer
change
return
show
tasmania
perth
help
beat
plan
sydney
set
take
make
back
talk
canberra
year
lead
will
melbourne
home
interview
adelaide
boost
support
tas
country
nsw
women
day
streaming
updates
team
international
health
challenge
project
exchange
news
rural
news
capital
hill
celebrate
fight
victory
best
darwin
play
afl
call
fire
victoria
wa country
business
welcome
new zealand
nsw
school
final
grandstand
breakfast
brisbane
tasmanian
despite
community
england
sa country
work
live streaming
tourism
water
police
gold coast
student
deal
star
tour
blue
gets
face
two
start
nrl
claim
president
extended interview
act
rugby world
industry
government
state
indigenous
former
market
budget
sign
top
mp
christmas
named
title
prepare
speak
court
green
coach
ready
mark
season
visit
begin
john
trial
move
regional
sa
good
city
rural reporter
centre
young
future
game
look
job
national
rural
life
claim
president
extended interview
rugby world
act
hobart
discusses
record
head
league
hunter
week
development
national
rise
food
council
service
meet
png
review
funding
wallabies
research
high
give
group
keep
children
concern
race
victorian
art
scientist
david
big
program
nt
man
sale
award
festival
newcastle
leader
resident
join
reveal
local
appeal
continue
hit
bring
wa country
business
welcome
woman
visit
begin
new zealand
nsw
trial
move
regional
sa
good
city
rural reporter
centre
young
future
game
work
look
job
national
rural
live streaming
tourism
water
police
gold coast
student
deal
star
tour
blue
gets
face
two
start
nrl
claim
president
extended interview
rugby world
act
hobart
discusses
record
head
league
hunter
week
development
national
rise
food
council
service
meet
png
review
funding
wallabies
research
high
give
group
keep
children
concern
race
victorian
art
scientist
david
big
program
nt
man
sale
award
festival
newcastle
leader
resident
join
reveal
local
appeal
continue
hit
bring
victoria

Negative Headlines Word Cloud (2016)

say
call
death
police
australian
australia
man
new
report
sydney
murder
adelaide
melbourne
government
election
hospital
woman
plan
attack
fire
court
perth
tasmania
wa
nsw
canberra
queensland
car
back
farmer
man charged
leave
lose
cut
women
end
die
killed
warn
dead
school
accused
job
china
law
bank
labor
missing
worker
former
children
claim
may
hit
water
victoria
council
fall
day
want
ban
student
change
charged
home
state
industry
jailed
system
threat domestic violence
donald trump
syria
prison
drug
risk
three
body
victim mother
boy
teen
charge
loss
arrested
storm
act
close
driver
will
year
concern
u
appeal
delay
study
found
health
leader
show
people
campaign
cause
sentenced
shooting
deal
two
near
trump
tasmanian
budget
injured
face
trial
group
png
kill
flood
sale
road
farm
mid
urge
search
week
rise
stop
run
push
indigenous
inquiry
protest
funding
minister
set
rio
darwin
qld
one
resident
brexit
need
case
cost
million
mp
service
guilty
party
fiji
doctor
debate
refugee
question
help
find
make
continue
gold coast
test
price
drop
chinese
house
fight
review
time
video
still
alleged
victorian
nt
warning
turnbull
market
teen
victim mother
boy

Positive Headlines Word Cloud (2018)

Negative Headlines Word Cloud (2018)

death
police
australia
australian
say
man
new
donald trump
court
home
nsw
hospital
year
back
china
former
missing
victoria
perth
sydney
ban car
plan
tasmania
school
dead
family
election
women
victim
die
face
claim
report
u
accused
royal commission
facebook
law
queensland
attack
will
call
killed
sentenced
woman
leave
alleged
murder
hit
people
fire
wa
melbourne
government
farmer
children
canberra
brisbane
worker
sa
charged
wall street
protest
tasmanian
found
boy
lose
one
deal
crash
nt
labor
student
jailed
need
fear
indigenous
trial
mother
world
threat
price
house
two
guilty
qld
darwin
company
question
warning
barnaby joyce
chinese
continue national
parliament
warn
funding
prison
risk
amid
cost
pay
near
turn
end
find
service
drug
road
case
community
injured
state
change
use
syria
victoria
leader
search
group
crisis
hobart
take
world cup
apologise
arrested
cut
food
jail
fatal
life
time
bank
industry
teen
fall
online
still
close
russian
drought
job
run
rule
dog
company

Negative Headlines Word Cloud (2019)

say
man
australian
death
police
woman
australia
fire
government
royal commission
court
attack
donald trump
call
charged
missing
former
trump
brexit
u
nsw
car
murder
water
victim
new
women
labor
hit
fall
report
deal
school
child
drug
time
melbourne
sentenced
arrested
adelaide
china
chinese
charge
stop
people
search
case
sydney
family
alleged
canberra
farmer
tasmanian
nt
guilty
assault
hospital
worker
wa
two
set
dog
three
million
train
bank
job
test
party
back
change
killed
need
rise
perth
bushfire
fear
aged
care
video
home
price
risk
day
found
driver
river
farm
stabbing
qld
president
nsw election
amid
run
food
industry
investigation
crisis
may
will
kill
claim
leave
tasmania
accused
jailed
queensland
crash
injured
near
want
warning
plan
victorian
children
prison
year
die
drought
ban
allegedly
five
budget
take
head
south
jail
resident
darwin
facebook
protest
police officer
mother
minister
election
brisbane
find
make
doctor
money
killing
war
cut
snake
trial
state
vote
first
one
policy
delay
threat
warn
health
free
nrl
john
uk
coal
parliament
law
face
dead
territory
flood
national
cause
big
high
shooting
crime
end
house
housing
christchurch
shooting
help
world
road
owner
fatal
girl
boy
show
parent
new zealand
comment
lose
abuse
service
social media
man charged
power
man
river
stabbing
farm
qld
president
nsw election
victorian
price
risk
day
found
driver
fear
bushfire
aged
care
video
home
nsw
car
murder
killed
need
rise
perth
water
victim
new
women
die
drought
ban
allegedly
five
budget
take
doctor
money
killing
claim
near
leave
tasmania
accused
jailed
queensland
crash
injured
want
warning
plan
victorian
children
prison
year
court