CHILDREN'S BOOKS RECOMMENDER SYSTEM

Blanca Hidalgo Nogales

.....

allWomen *May - July 2021*

Image credits: Jungho Lee

“Once you learn to read, you will be forever free.”

Frederick Douglass

Image credits: Valerio Vidali

EXPLORING THE DATA

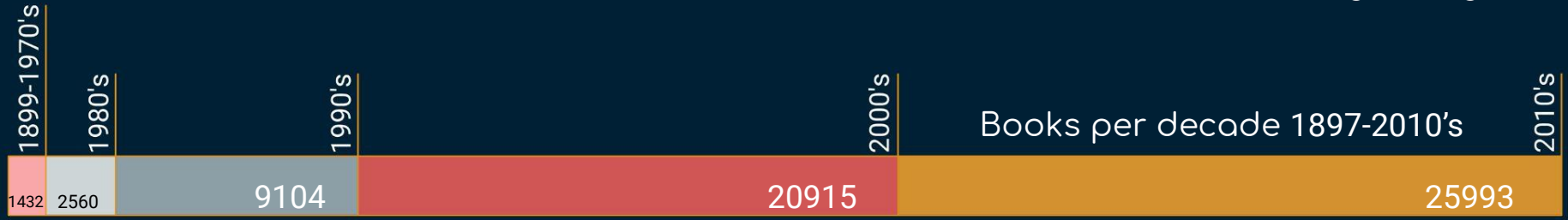
60004
Books

67843
Users

496634
Reviews

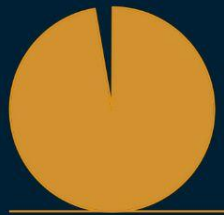
5242
Publishers

3,876
Avg.Rating



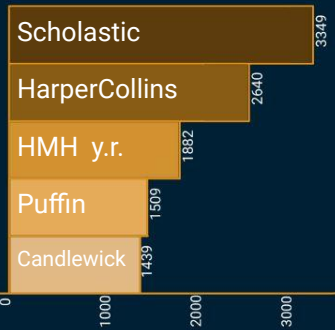
eBooks

1.62 %

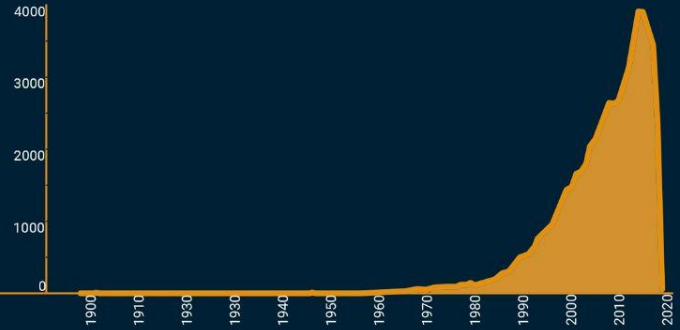


Most Popular Books

Top Publishers



Books published per year

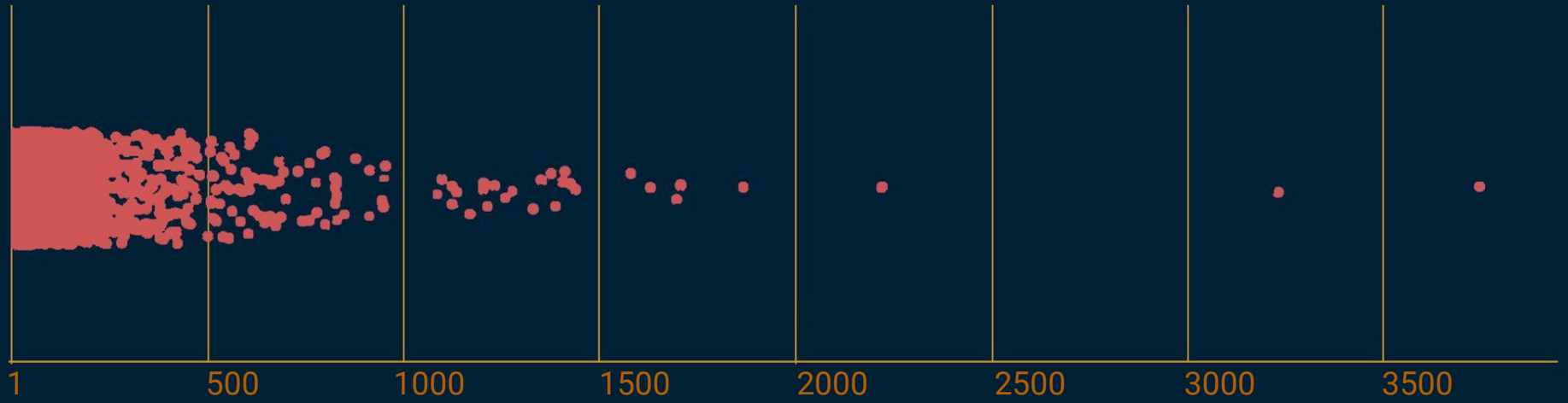


*Harry Potter and the prisoner of Azkaban

Distribution of ratings

Number of reviews for a given user

Average n° of reviews: 7,32



ANALYSIS OF THE BOOKS' DESCRIPTION WORDS

animal
adventure
friend
life
classic
king
original
bible
great
work
mother
father
boy
cat
peter
rabbit
dorothy
enchanted
generations
wonderful
hundred
lion
ferdinand
jancsi
play
forest
trouble
beloved
people
hard
treasure
silver
exciting
golden
meet
year
magic
boat
benjamin
egg
family
mountain
travel
mystery
talk
short
dr
kate
become
good
star
miss
hungry
city
save
men
anne
danger
girl
go
mary
poon
world
hardcover
twin
character
tell
set
red
tiger
steam
sue
true
solve
cruel
fairy
clever
folk
ball
cousin
elephant
language
love
land
mike
found
ages
chance
bill
small
rhyme
hero
capture
native
yet
today
title
perhaps
lead
truth
dragon
giant
stilts
nursery
america
country
box
nineteen
translated
testament
contain
babar
islands
maiden
eye
town
delight
collected
delicate
made
flower
mouse
rescue
south
norton
power
lathrops
circus
back
know
act
human
sold
black
vacation
april
big
give
magic
end
wonderful
search
princess
discover
gift
beginner
brother
vacation
celebration
piggiewiggle
parents
country
betsy
dog
city
pickerell
mystery
beautiful
work
sack
show
danny
seuss
drew
said
meet
original
home
face
man
love
fun
horse
trouble
house
small
keep
sister
friendship
right
live
teacher
daughter
classic
nancy
cat
say
great
store
days
goes
bring
visit
high
start
pirate
boy
time
good
bad
mine
begin
eye
henry
color
summer
six
deep
french
dinosaur
going
circus
learn
tell
father
big
end
april
vacation
wonderful
search
princess
discover
gift
beginner
brother
family
hollister
school
become
happy
want
word
library
problem
away
dr
george
black
turn
solve
revised
secret
mr
year
night
sure
us
hat
treasure
ghost
age
town
chris
mas
birthday
special
back
ship
find
together
friend
help
world
charming
beloved
mother
travel
mountain
favorite

1980’s -1990’s

Life - Family - School - World - Friends

Help - Color - House

Girl: 50,70% | Boy: 49,3%

2000’s

World - Life - Family - Help - Friends

School - Fun - Love

Girl: 48,40% | Boy: 51,60%

2010’s

World - Friends - Help - Life

Life - Fun - Family

Girl: 51,74% | Boy: 48,26%

Image credits: Ahra Kwon

GENDER BASED ANALYSIS

OF THE 1000 MOST POPULAR BOOKS

1000
Books

51809
Users

179321
Reviews

246
Publishers

4,088
Avg.Rating

Books by author's gender

Male 51,3%

Female 48,7%

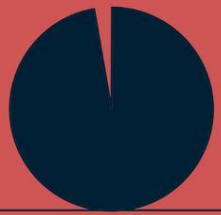
Male 46,4%

Female 53,6%

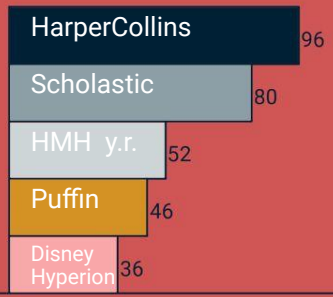
554 Authors

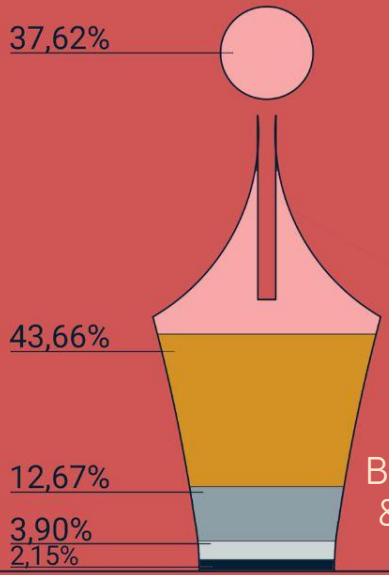
eBooks

0.7 %

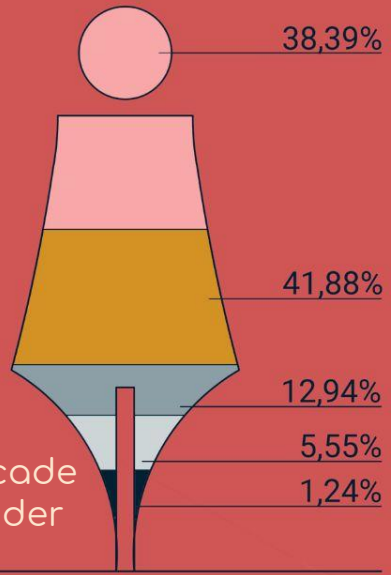


Top Publishers



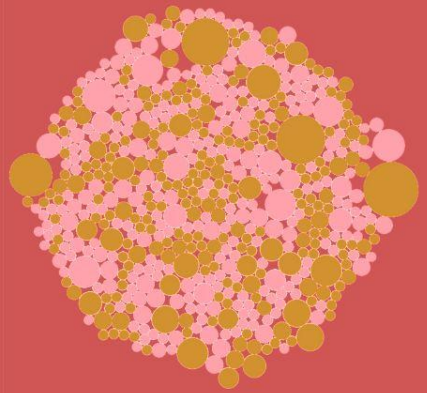


2010's
2000's
1990's
1980's
1900's TO 1970's

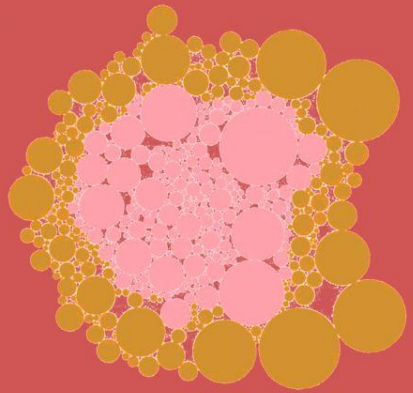


Books per Decade & Author Gender

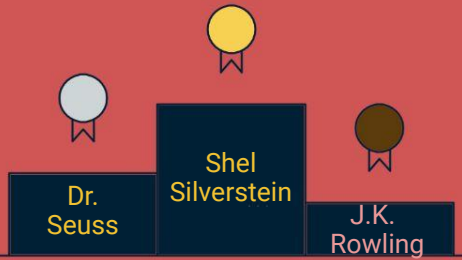
Distribution of ratings

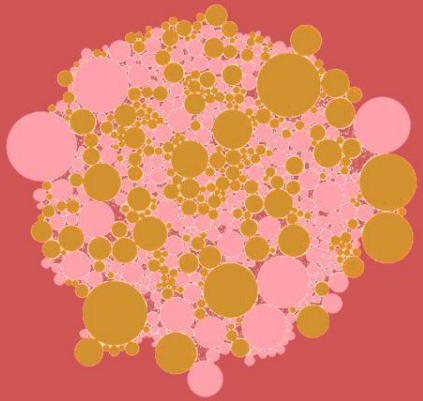


Authors with more books



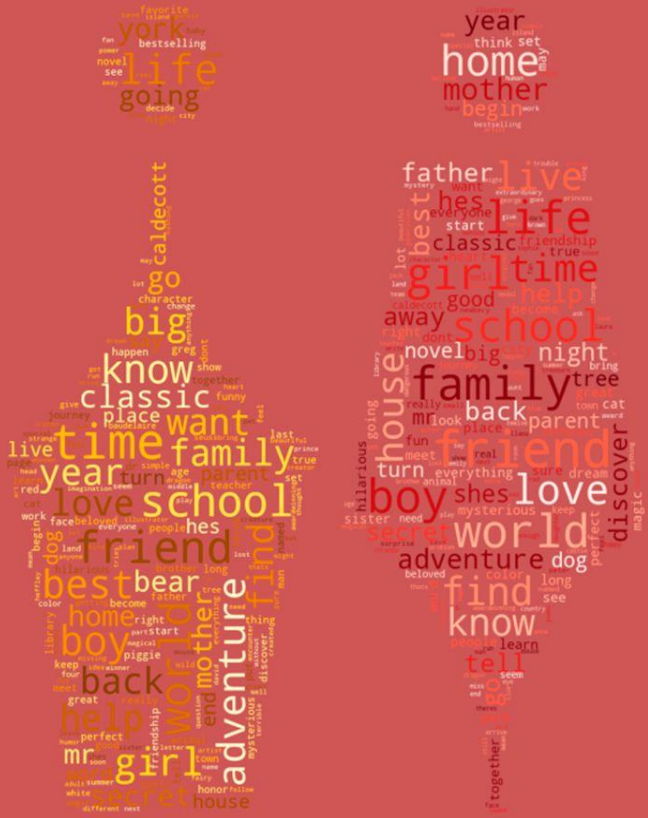
Most rated authors





Most reviewed authors

ANALYSIS OF THE BOOKS' DESCRIPTION WORDS BY AUTHOR'S GENDER



LIFE

SCHOOL

WORLD

FAMILY

FRIENDS

HELP

CLASSIC

ADVENTURE

BOY

HOME

LOVE

SOME MALE AUTHORS TOPICS

DRAGONS

BOYS

ADVENTURES

MISTERY

BEARS

PETS

FOREST

CALDECOTT

SOME FEMALE AUTHORS TOPICS

LOVE

BOYS & GIRLS

MISTERY

MAGIC

PRINCESSES

SECRETS

PETS

ANIMALS

ANALYSIS OF THE REVIEW WORDS BY BOOK AUTHOR'S GENDER

LIKE

LOVE

GREAT

LITTLE

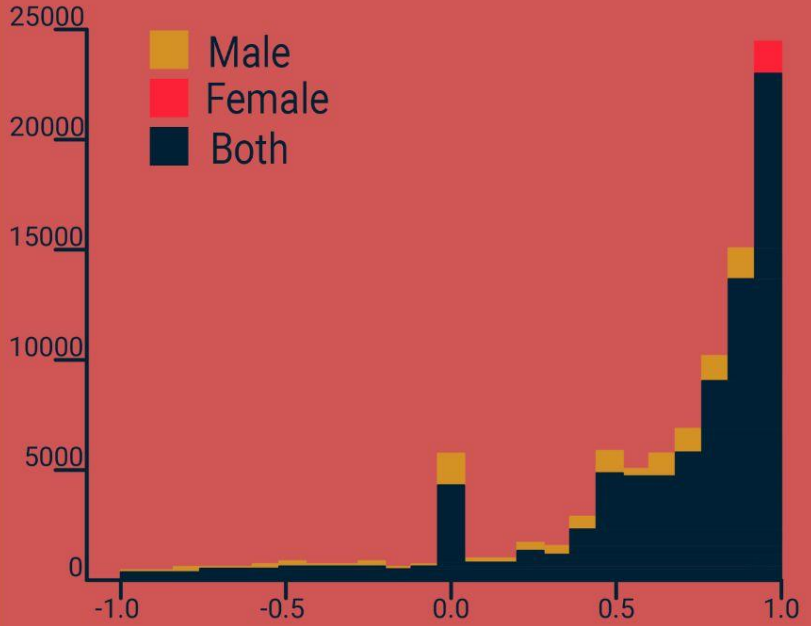
THINK

FUN

CHARACTERS

SENTIMENT ANALYSIS OF THE REVIEWS BY AUTHOR GENDER USING VADER

COMPOUND SCORE GRAPHIC



POSITIVE AND NEGATIVE REVIEWS BY AUTHOR GENDER

'I really enjoyed the book even though it was written for a teen/preteen audience. My daughter really liked it. Fun and clean. Love fairy tales.'

'This reminded me a bit of Lemony Snicket/Series of Unfortunate Events in its style, as many other readers have said. I was disappointed that it never really solved the "mystery." It's clearly set up to be a series, but I didn't find it engaging enough to keep reading. This is probably a 2.5 for that reason.'

'A story about friendship, loyalty, courage, personhood, the importance of learning and honoring truth, this is part fable, part novel and highly recommended for all ages.'

'I really did not like this book at all. Too silly for my tastes, my kids were bored with it and only my OCD made me not abandon it midway through'

Image credits: Andrea de Santis

BOOK RECOMMENDER SYSTEMS

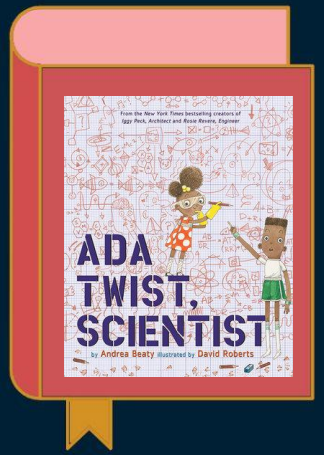
ITEM - ITEM RECOMMENDER
COLLABORATIVE FILTERING
Users + books
‘Similar users like similar things’
60004 Books
Cold Start Problem
CONTENT BASED RECOMMENDER
CONSIDERING USERS OR ITEMS FEATURES
Descriptions + Reviews
‘If a user likes x, he will also like y ’
1000 Books
Quality of content Problem

ITEM - ITEM

Maybe something beautiful

Noisy Paint Box

The wheels on the Tuk Tuk

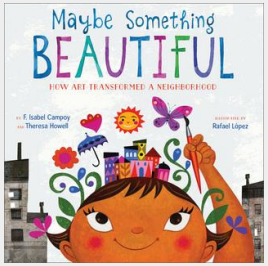


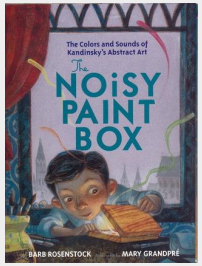
CONTENT BASED

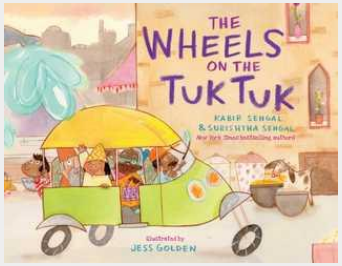
All the World

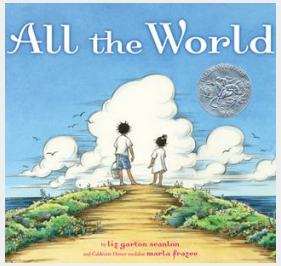
Iggy Peck, Architect

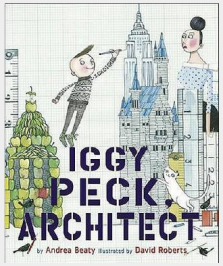
I like myself!

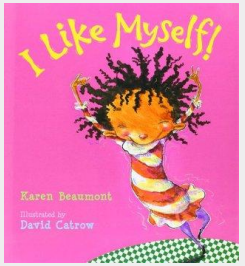






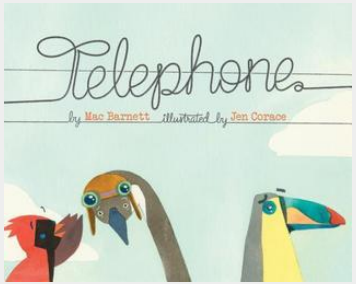


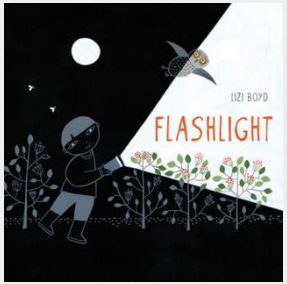


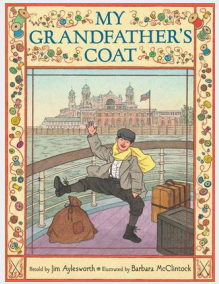


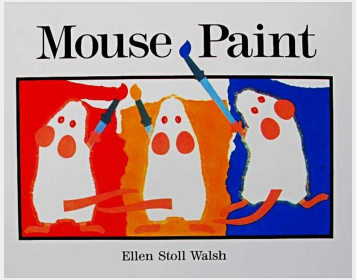
ITEM - ITEM

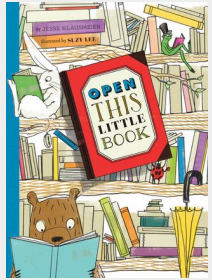
CONTENT BASED

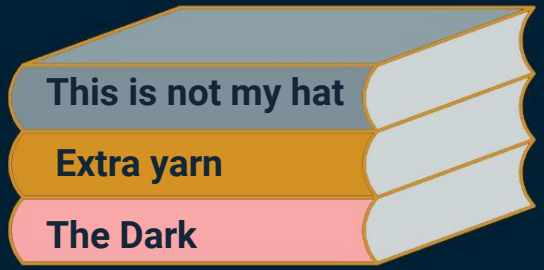


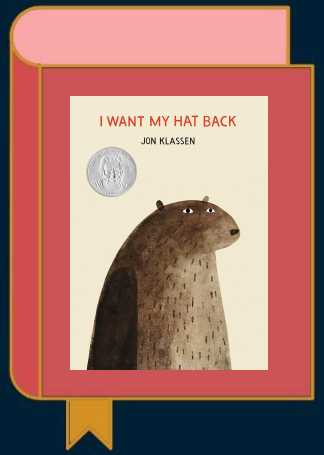


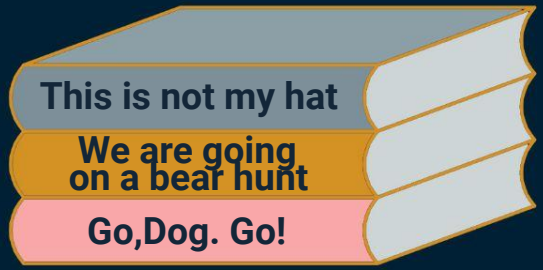


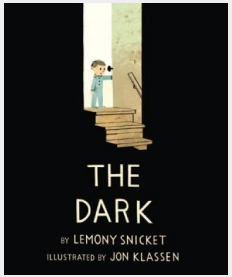


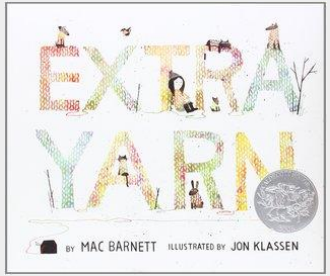


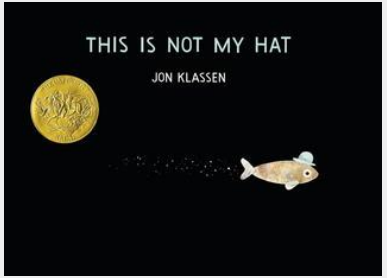

This is not my hat
Extra yarn
The Dark

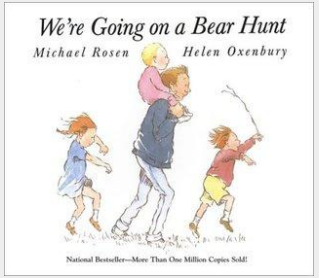

I WANT MY HAT BACK
JON KLASSEN


This is not my hat
We are going on a bear hunt
Go,Dog. Go!


THE DARK
BY LEMONY SNICKET
ILLUSTRATED BY JON KLASSEN


EXTRA YARN
BY MAC BARNETT ILLUSTRATED BY JON KLASSEN


THIS IS NOT MY HAT
JON KLASSEN


We're Going on a Bear Hunt
Michael Rosen
Helen Oxenbury
National Bestseller—More Than One Million Copies Sold!

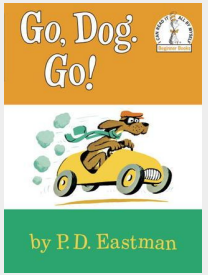

Go, Dog. Go!
by P.D. Eastman

Image credits: Jungho Lee

Thank you!

blancahidalgonogales@gmail.com