VALAR MORGHULIS

A

GAME OF THRONES

DEATH PREDICTOR

BY MONICA RAMIREZ

WARNING!
This presentation may contain Spoilers

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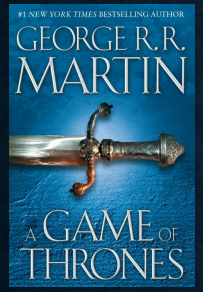
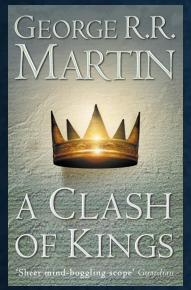
CONTEXT

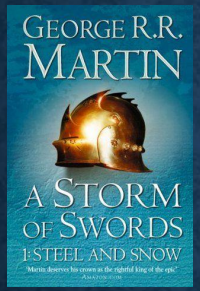
Book 1



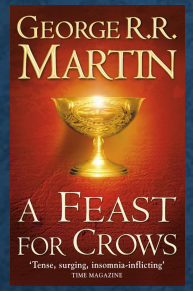
Book 2



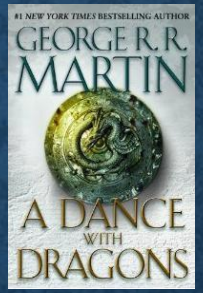
Book 3



Book 4



Book 5



Training / Test

Predict

Season 8

Season 1

Season 2

Season 3

Season 4

Season 5

Season 6

Season 7

GAME OF DATA

Character_Death
Name
House
Death_Year
Death_Book
Character_book
Name
IsAlive
Tittle
Gender
House (Top 10)
Culture
Book_1
Book_2
Book_3
Book_4
Book_5
IsAliveMother
IsAliveFather
IsAliveHeir
IsAliveSpouse
IsMarried
IsNoble
IsPopular
Character_Show
Character_Name
Actor
Season_1
Time_S1
Season_2
Time_S2
Season_3
Time_S3
Season_4
Time_S4
Season_5
Time_S5
Season_6
Time_S6
NumberEpisodes
House (Top 10)
Age
Avg_Rating
Avg_Viewers
IsDead_shw
Episode
Number
Season
Title
Rating
Viewers
Writers
Director
Character_Episode
Character_Name
Season
Episode
Died
1
1
1
1
JOIN
Fuzzy Wuzzy
SQL
DATA SETS
Books
Tv Show Characters
Tv Show info
ATRIBUTES
SQL Generated
Categorical
Target

ASSUMPTIONS

- Characters don’t come back to life (Target value: ‘Alive’)
- Dataset only includes human characters (NOT dragons, direwolves, White Walkers or Children of the Forest)
- Characters are only classified in the top 10 houses with more members on it (Otherwise house=’Other’)
- Alive characters that suffered NO change during last season were removed from the training set

ASSUMPTIONS

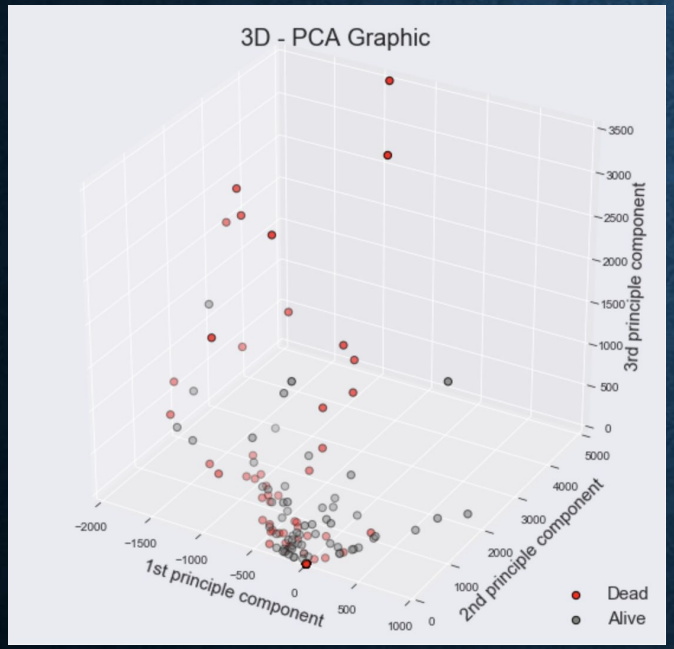
- **Deaths** **Season** **7:**
  Leona Tyrell, Taena of Myrr, Peter Baelish, Kevan Lannister.

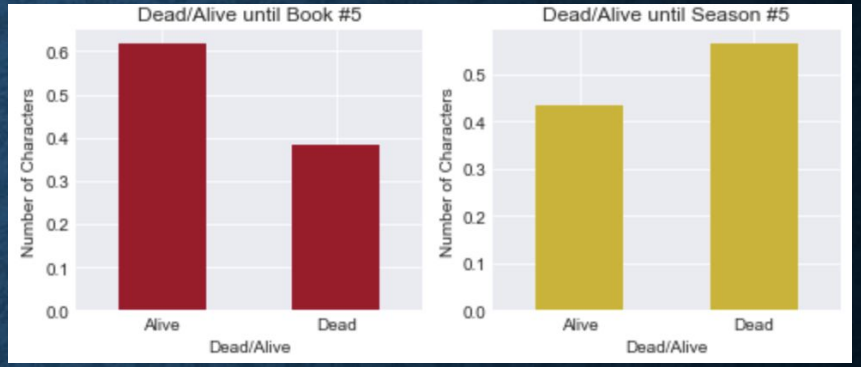
- **Change** **Allegiances** **Season** **7:**
  Brienne of Tarth (Stark), Bronn (Lannister)

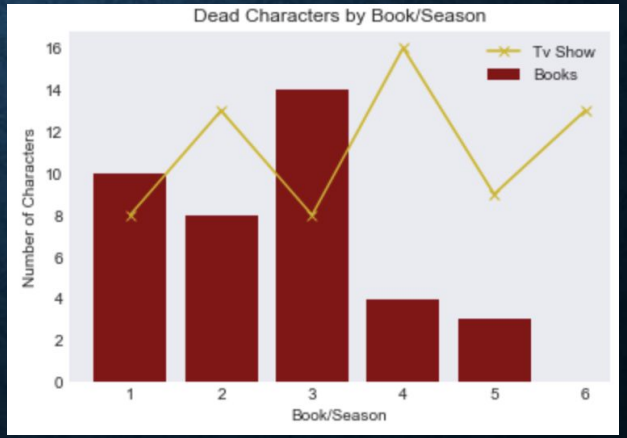
- **New** **Family** **House** **Season** **7:**
  Jon Snow

- **Liberties** **Season** **7:**
  Benjen Stark (Dead)
  Ellaria Sand, Meera Reed (Alive)

YOU KNOW NOTHING



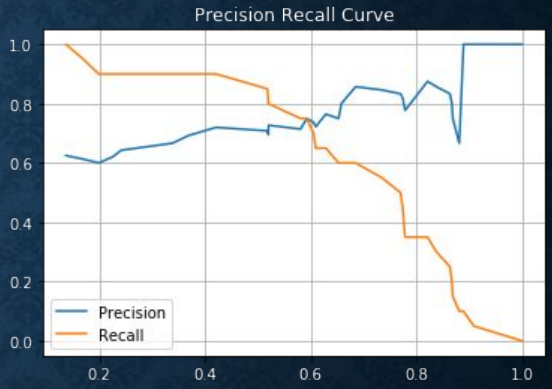




I MODEL AND I KNOW THINGS

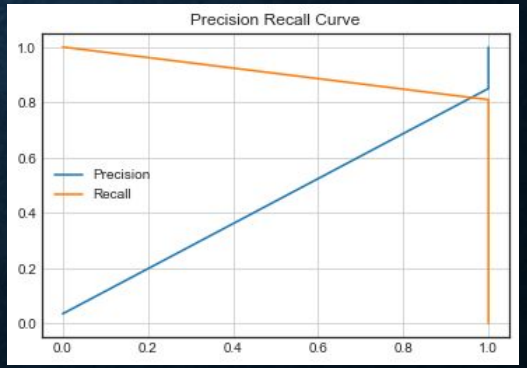
Modelo Basado en Show:
- 115 personajes
- 65 muertos

Truth \ Model	alive	dead	
alive	8	7	0,53
dead	3	17	0,85
	0,73	0,71	

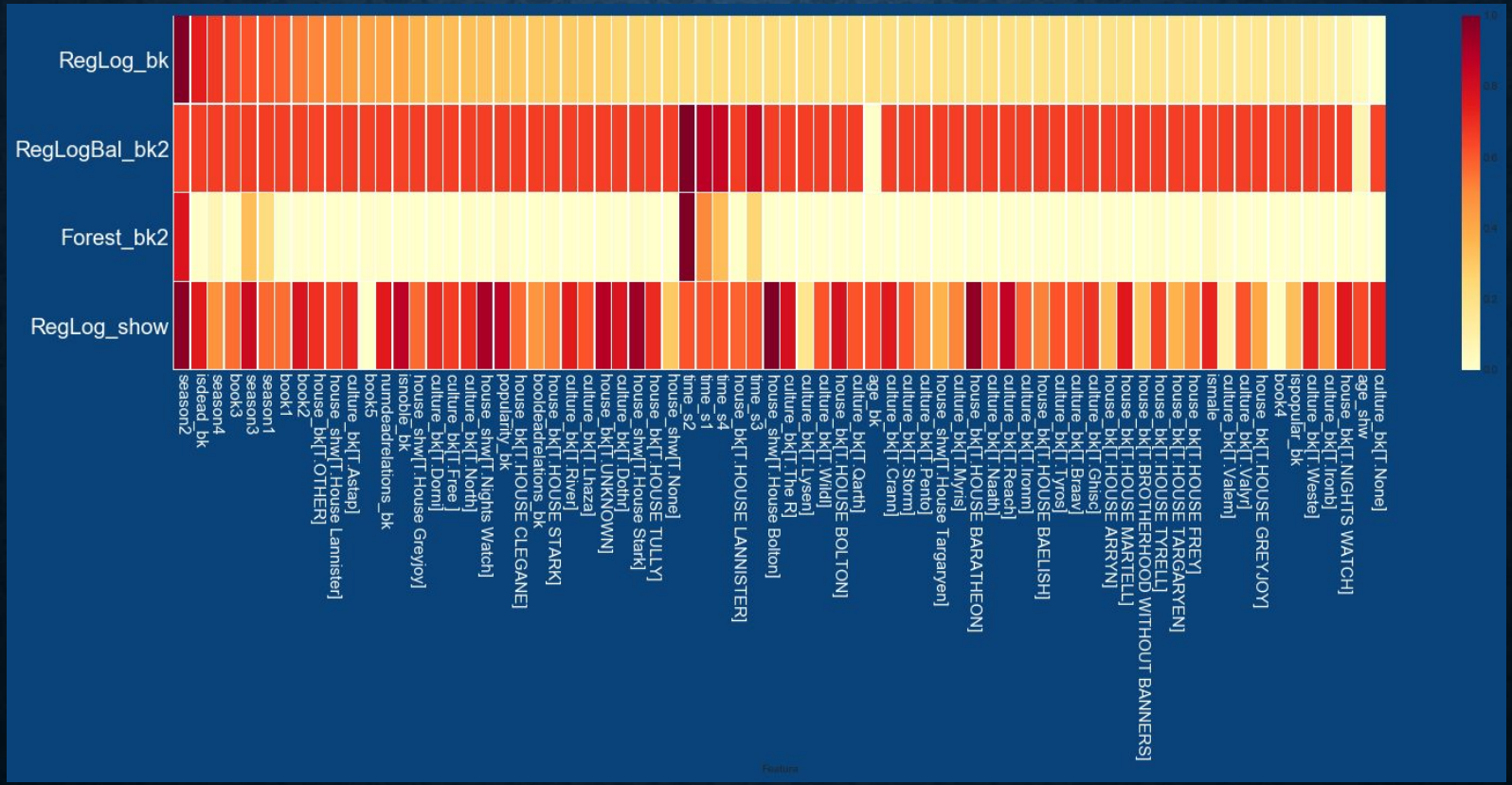


Modelo Basado en Libros:
- 2011 personajes
- 65 muertos

Truth \ Model	alive	dead	
alive	568	5	0,99
dead	1	20	0,95
	1,00	0,80	



I MODEL AND I KNOW THINGS



VALAR MORGHULIS

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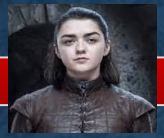
89.73684

90.63198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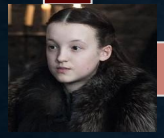
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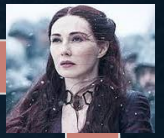
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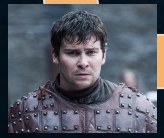
71.7588

75.0064

75.8414

76.2355

76.7186


63.1411

57.0672

52.7454

52.6103

51.8985

48.7644

37.4208

34.7104

CREDITS

- Kaggle Competition (https://www.kaggle.com/mylesoneill/game-of-thrones)
- Visual Analysis raw data (https://trumpexcel.com/game-of-thrones-dashboard/)
- Tv Show GitHub project (https://github.com/mneedham/neo4j-got/blob/master/data)
- Game of Thrones Tv show Wiki (http://gameofthrones.wikia.com/wiki/Game_of_Thrones_Wiki)
- Song of Ice and Fire Books Wiki (https://awoiaf.westeros.org/index.php/Main_Page)

THANK YOU

- MONICA RAMIREZ

Blog: https://medium.com/@monita.ramirezb
Projects GitHub Repo:
https://github.com/monitarb/first_projects/tree/master/P3_GOTDeathProbability

2019