

# Métodos Analíticos

Para guiones de películas

May 27, 2018

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¿Qué tanto podemos  
saber de una película con  
el guion?

¿Por qué es importante?



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- Extracción de características cuantificables para aprendizaje de máquina y otras estimaciones estadísticas

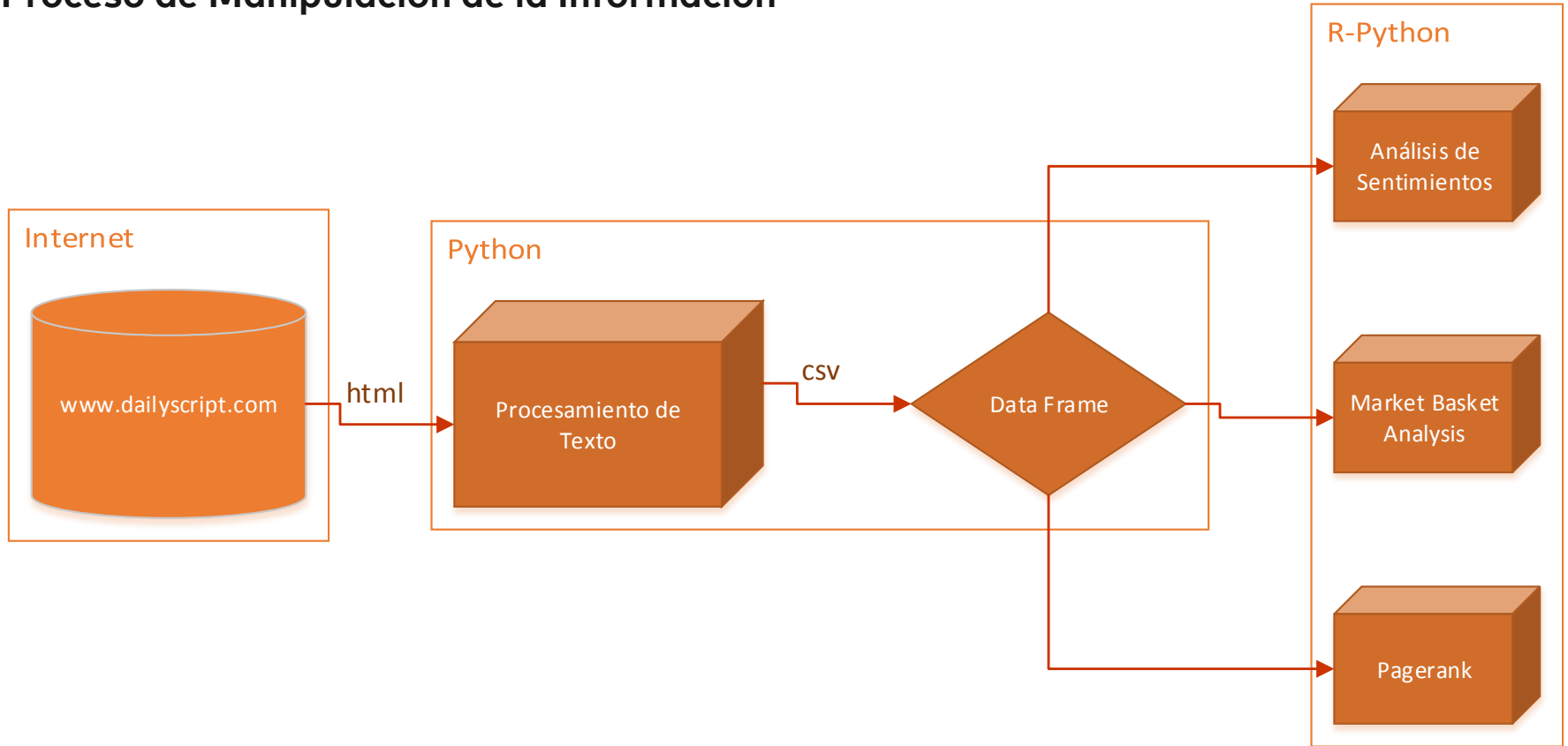


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- Extracción de características cuantificables para aprendizaje de máquina y otras estimaciones estadísticas
- Contribución pedagógica por ser una aplicación divertida de métodos analíticos



# Proceso de Manipulación de la Información



## Base original



MAY 27, 2018

Of course.

WARNER

My family expects a lot from me. And I expect a lot from me. I plan on running for office some day.

ELLE

And I fully support that.

WARNER

But the thing is, if I'm gonna be a senator by the time I'm thirty -- I can't keep dicking around.

ELLE

I completely agree.

WARNER

That's why I think it's time for us to --

Elle takes a deep breath, filled with anticipation.

WARNER

I think we should break up.

Elle's champagne glass drops from her hand and CRASHES onto the patio.

ELLE

What?

Elle starts to flush, completely caught off guard.

WARNER

I'm sorry, Elle, I just --

ELLE

You're breaking up with me?!  
(tearing up)  
I thought you were proposing.



## Base original



Supuestos:

Número de espacios (tabs) distintos para introducir personajes, diálogos, adverbios, escenas.

No deben ser siempre iguales pero sí en el mismo orden

Archivo html

MAY 27, 2018

```
<  →  ↺  ⬆  ⓘ www.dailyscript.com/scripts/Legally%20Blonde.txt
Of course.

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My family expects a lot from me. And
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running for office some day.

ELLE
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WARNER
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senator by the time I'm thirty -- I
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ELLE
I completely agree.

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That's why I think it's time for us
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Elle's champagne glass drops from her hand and CRASHES onto
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I'm sorry, Elle, I just --

ELLE
You're breaking up with me?!
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```

# Texto compilado

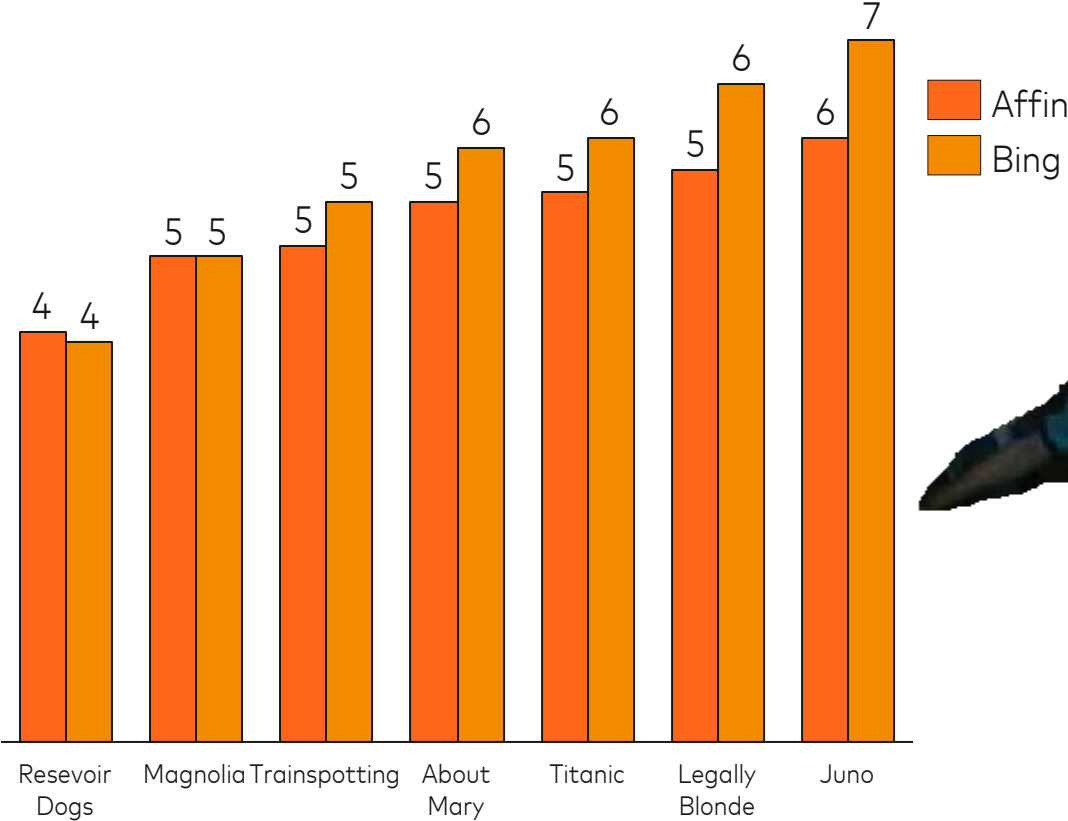
	adverb	char	dialogue	scene
0		"TOY STORY"		1
1	(pulling Woody's string)	ANDY	You saved the day again, Woody.	1
2		ANDY	C'mon, let's wrangle up the cattle.	1
3	(raising his arms)	ANDY	Score!	1
4		ANDY	Can we leave this up 'til we move?	1
5		MRS. DAVIS	Well, sure, we can leave it up.	1
6		ANDY	Yeah!	1
7		MRS. DAVIS	Now go get Molly. Your friends are going to b...	1
8		ANDY	Okay.	1
9		ANDY	It's party time, Woody!	1
10		ANDY	Howdy, Little Lady!	1
11	(picking up Molly) (to Woody)	ANDY	C'mon, Molly. Oh, you're getting heavy! See y...	1
12	(to himself)	WOODY	Pull my string! The birthday party's tr...	1
13	(to the room)	WOODY	Okay, everybody. Coast...	1
14		MR. POTATO HEAD	Ages three and up. It's on my box. Ages three...	1
15		MR. POTATO HEAD	Hey, Hamm! Look! I'm Picasso! I don't get it.	1
16	(to someone O.S.)	MR. POTATO HEAD	You uncultured swine! What are you looking at,...	1
17		WOODY	Uh, hey Sarge, have you seen Slinky?	1
18	(saluting)	SARGENT	Sir! No Sir!	1



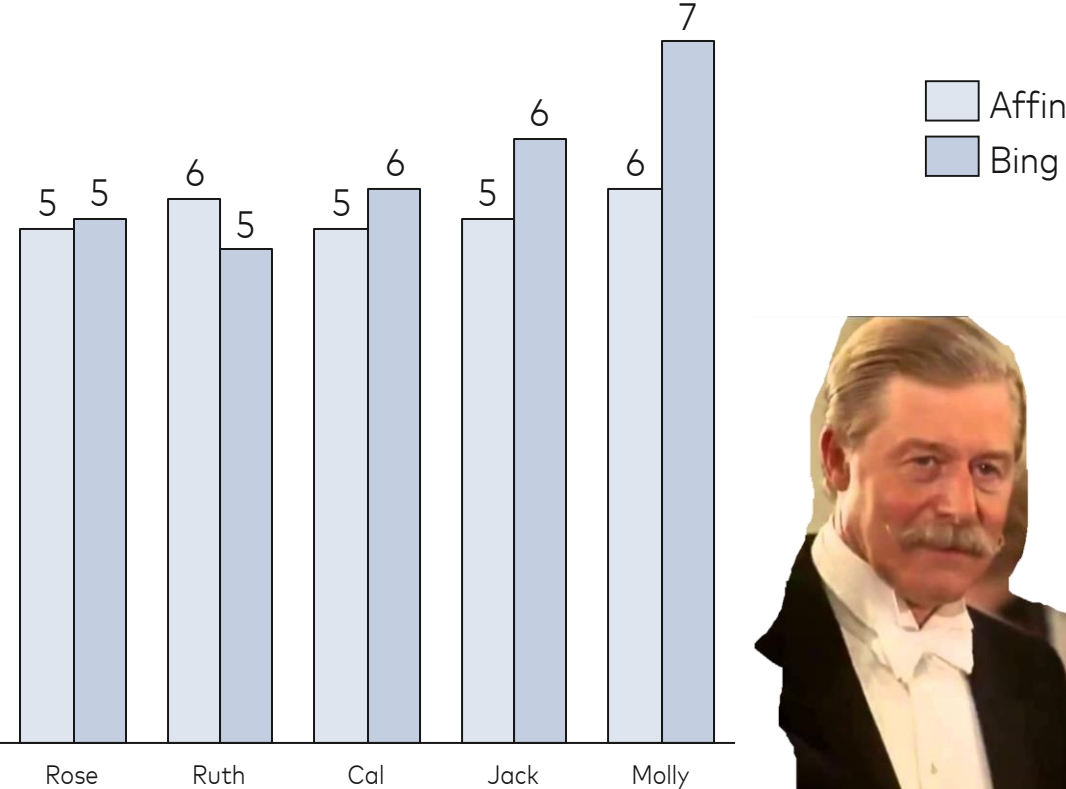
# Análisis de Sentimientos por Diccionarios



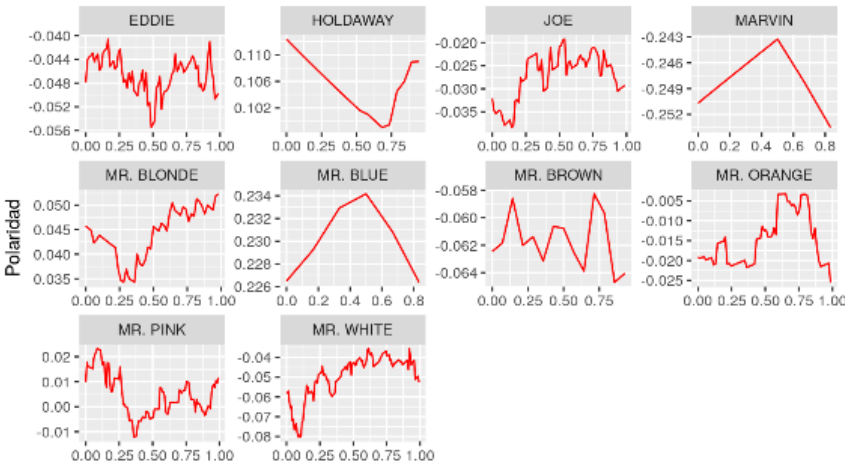
# Análisis de Sentimiento: Por Película



# Análisis de Sentimiento: Por Personaje



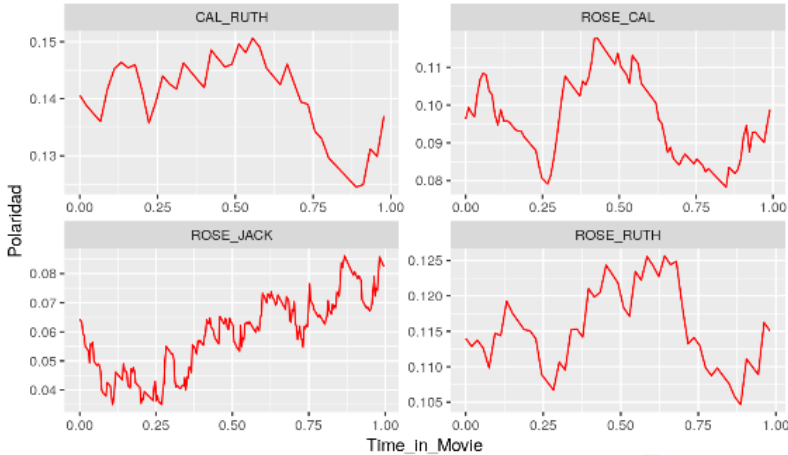
# Sentimiento por Personaje durante la Película



Personaje	Min_Max	Dialogo
MR. WHITE	MIN	Hey, just cancel that shit right now! You're hurt. You're hurt really fucking bad, but you ain't dying.
MR. WHITE	MAX	Piss on this turd, we're outta here.
MR. PINK	MIN	Yeah, and that was a fucking miracle. But if they did get away, where the fuck are they?
MR. PINK	MAX	These ladies aren't starvin' to death. They make minimum wage. When I worked for minimum wage, I wasn't lucky enough to have a job that society deemed tipworthy.
EDDIE	MIN	Holy shit, this guy's all fucked up!
EDDIE	MAX	Ahh, now we're getting down to it. It's not just that he's a cheap bastard -
JOE	MIN	No, she did it. She killed the cheatin' wife, too.
JOE	MAX	Come in.
MR. ORANGE	MIN	I'm sorry, I'm so sorry.
MR. ORANGE	MAX	What?
MR. BLONDE	MIN	I said: "Are you gonna bark all day, dog, or are you gonna bite."
MR. BLONDE	MAX	"Clowns to the left of me, Jokers to the right. Here I am, stuck in the middle with you."
HOLDAWAY	MIN	It's a scene. Memorize it.
HOLDAWAY	MAX	This better not be some Freddy joke.
MR. BROWN	MIN	My eyes! My eyes! I'm blind, I'm fucking blind!
MR. BROWN	MAX	I love this guy, he's a madman, this guy.
MR. BLUE	MIN	These people are taxed on the tips they make. When you stiff 'em, you cost them money.
MR. BLUE	MAX	What's something special, take ya in the kitchen and suck your dick?
MARVIN	MIN	What the fuck are they waiting for? That motherfucker cut off my ear! He slashed my face! I'm deformed!
MARVIN	MAX	I do. How do I look?



# Sentimientos por Pareja durante la Película



Dialogos cúspide por Top 4 Parejas: Titanic

Parejas	Min_Max	Dialogo
ROSE_JACK	MIN	And these were drawn from life?
ROSE_JACK	MAX	Right.
ROSE_CAL	MIN	I'm not going without you.
ROSE_CAL	MAX	There's the Countess Rothes. And that's John Jacob Astor... the richest man on the ship. His little wifey there, Madeleine, is my age and in a delicate condition. See how she's trying to hide it. Quite the scandal. And over there, that's Sir Cosmo and Lucile, Lady Duff-Gordon. She designs naughty lingerie, among her many talents. Very popular with the royals.
ROSE_RUTH	MIN	You unimaginable bastard.
ROSE_RUTH	MAX	I don't understand you. It is a fine match with Hockley, and it will insure our survival.
CAL_RUTH	MIN	Will the lifeboats be seated according to class? I hope they're not too crowded –
CAL_RUTH	MAX	A real man makes his own luck, Archie.



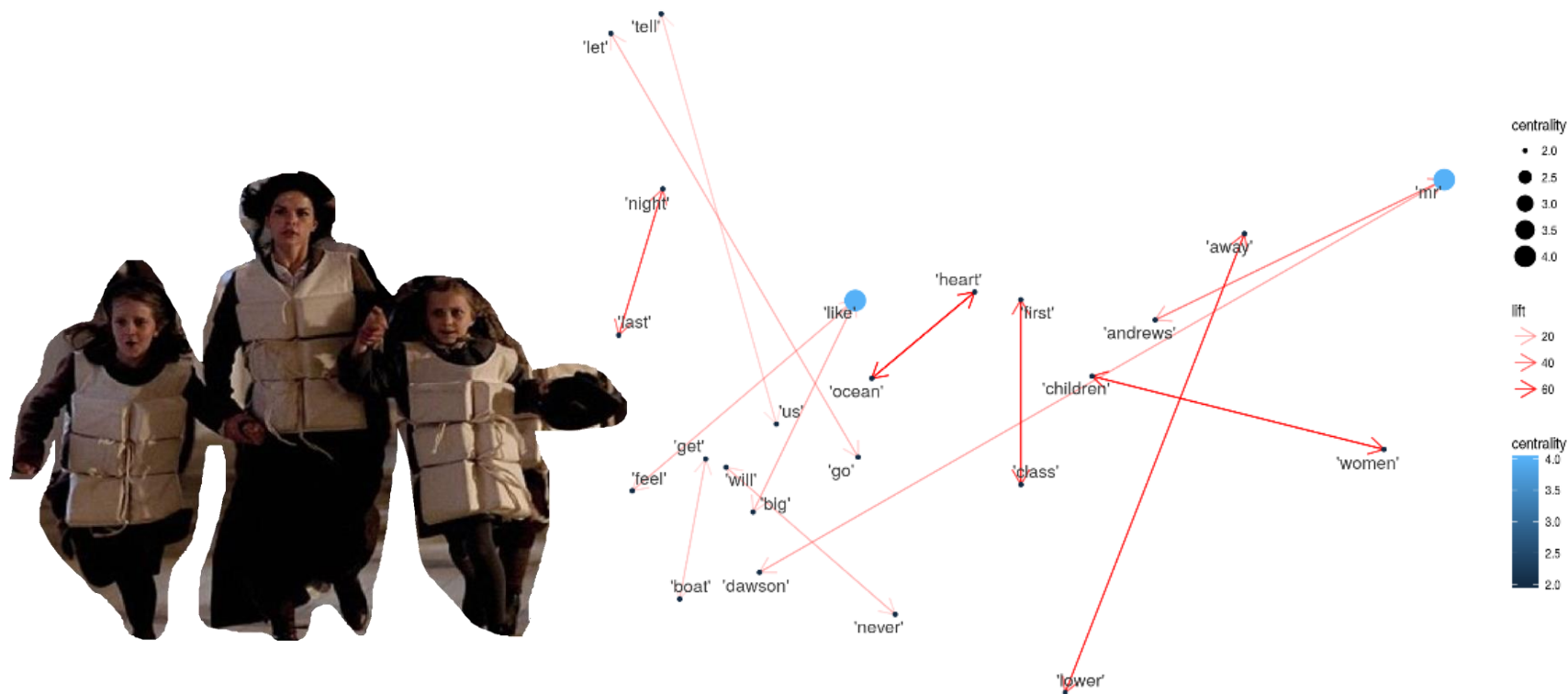
## Asociación de palabras con Market basket





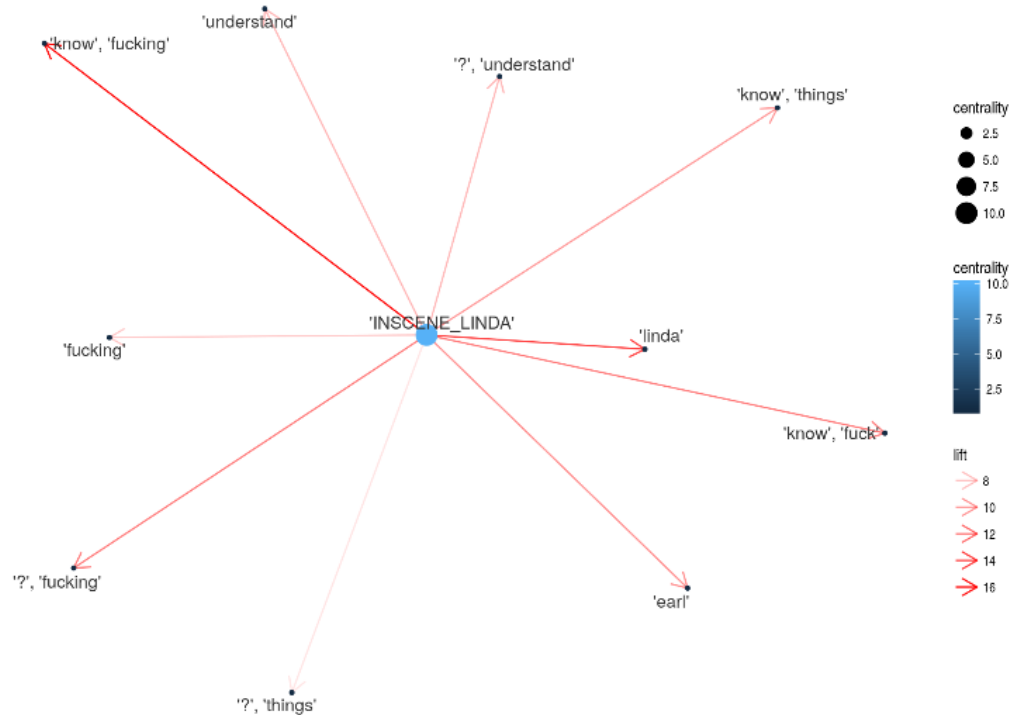
## Reglas de Asociación entre palabras en una Película (Market Basket)

### Reglas de Asociación en palabras de la película: Titanic



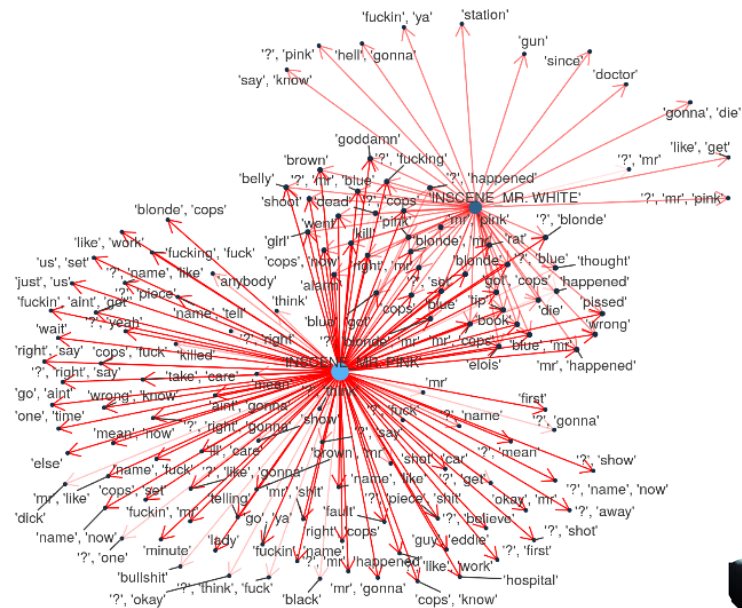
# Reglas de Asociación entre palabras de un Personaje en una Película (Market Basket)

Reglas Asociacion del personaje: 'INSCENE\_LINDA'



## Reglas de Asociación entre palabras de una parjea de Personajes en una Película (Market Basket)

**Reglas Asociacion: 'INSCENE\_MR. WHITE' con 'INSCENE\_MR. PINK'**



Reglas Asociacion: 'INSCENE\_FRANK' con 'INSCENE\_PHIL'

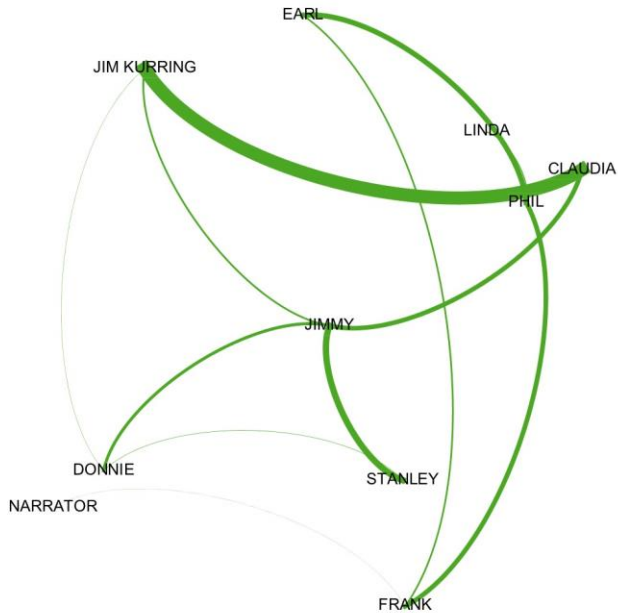


## Page Rank (Relaciones entre Personajes)



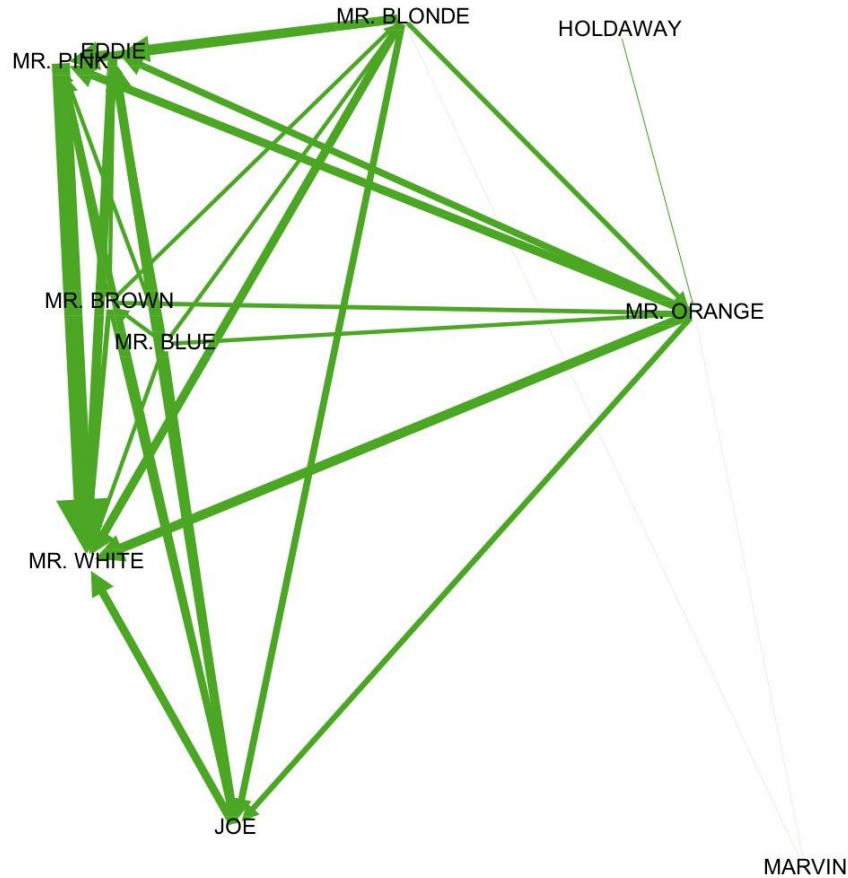
# Page Rank: topologías

# Partial mesh





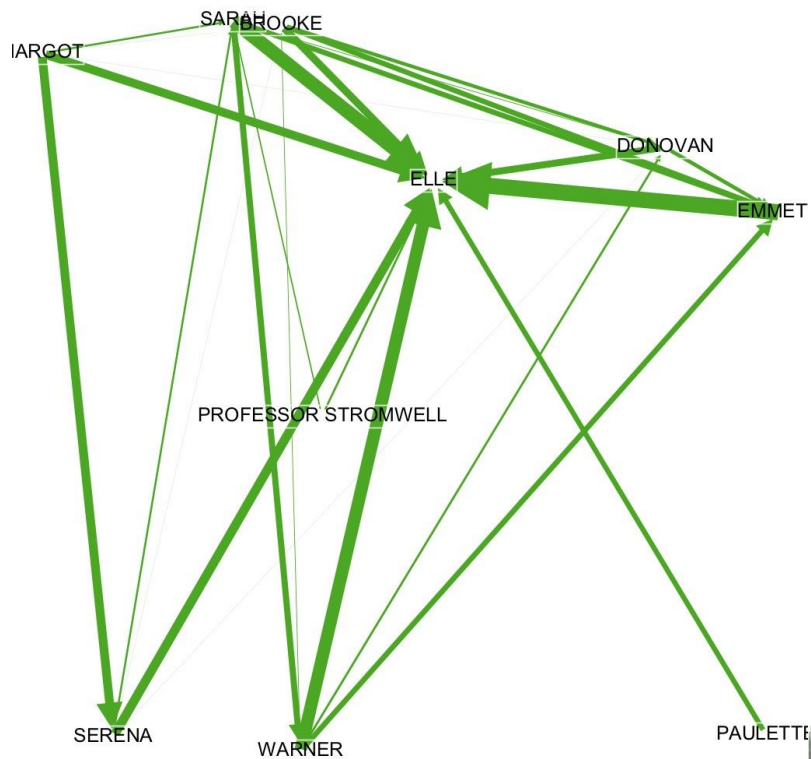
## Page Rank: topologías



# Full mesh



# Page Rank: topologías



# Star





# Retos

```
removedchars=["'S VOICE", "'S WHISPER VOICE", " GATOR", "NICE GUY "]
for s in removedchars:
    magnolia['char']=magnolia['char'].apply(lambda x: x.replace(s, ""))
```

```
if name=="shawshank":
    liston=[i.replace("\t", " ") for i in liston]
if name=="Reservoir+Dogs":
    liston=[i.replace("VIC", "MR. BLONDE") for i in liston]
    liston=[i.replace("FREDDY", "MR. ORANGE") for i in liston]
```

# Contribuciones finales

Reporte en 6 minutos con:

- Análisis de sentimientos de película y personajes
- Radiografía en el tiempo de sentimientos de personajes a nivel individual y en parejas con posible extensión a lugares o grupos de personajes.
- Asociación de palabras entre sí y con personajes
- Arquitectura de topología de 10 (modificable) personajes más importantes

Se usa:

Python  
Gephi  
R

Supuestos se cumplieron para 15/17 intentos de películas con script en html y txt.

Barco fantasma

Legalmente rubia

Magnolia

Titanic

Juno

10 cosas que odio de ti

Loco por Mary

Viernes 13

El sexto sentido

Sunset Boulevard

Transformers

El show de Truman

Batman

Reservoir dogs

Trainspotting