Political Context Analysis

Delivery date: 28/10/2021

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- Profiling
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Topics addressed, goals and urls





- The relation between their ideology and voting party
- Voter participation and concern about the issues raised in the survey
- Opinion on the independence of Catalonia and national identity

Enquesta sobre context polític a Catalunya. 2021

Qüestionari





https://ceo.gencat.cat/ca/barometre/detall/index.html?id=7988

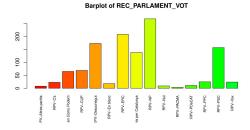
http://upceo.ceo.gencat.cat/wsceop/7988/Q%C3%BCestionari_996.pdf

Data Mining Process



Descriptive Analysis

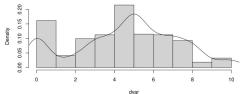
35. (PART_PARLAMENT =5) I em podria dir a quin partit o coalició va votar en les darreres eleccions al Parlament de Catalunya del 14 de febrer? (Indicadores: REC_PARLAMENT_VOT; REC_PARLAMENT_VOT_LITERALS)



Ara li preguntaré sobre les últimes eleccions al Parlament de Catalunya del passat 14 de febrer

 Quin és el seu grau de satisfacció amb el resultat d'aquestes eleccions, en una escala del 0 al 10, on 0 és molt insatisfet/a i 10 molt satisfet/a (Indicador: SATISFACCIO_ELECCIONS_14F2021)

Density of SATISFACCIO_ELECCIONS_14F2021



variable	Min.	X1st.Qu.	Median	Mean	X3rd.Qu.	Max.
Min. SATISFACCIO_ELECCIONS_	_14F2021 0	3	5	4.609912	7	10

	Political Parties	Election	Representation in our Dataset	Mean Satisfaction	Mean "Catalan Love"	Mean "Spanish Love"
	PS C	33 16 (23.06 %)	13. 08 %	4.22	5.3	5.87
	ıın ERC	33 <u>1</u> 1 (21,3%)	17.3 %	6.15	7.88	2.38
	junts	32 A 3 (20.07%)	11.5 %	6.41	8.93	1.45
n	VOX	11 🛕 11 (7.67 %)	2 %	1.88	4.33	7.08
	Cs	6 ¥ 30 (5.58 %)	2 %	2.52	3.26	6.79

Univariate Descriptive Analysis

Numerical

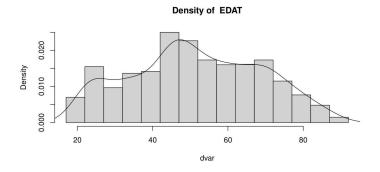


Table 8: Summary of the Variable

	variable	Min.	X1st.Qu.	Median	Mean	X3rd.Qu.	Max.
Min.	EDAT	18	39	51	51.5375	65	90

Categorical & Binary

Barplot of VOT DRET DEURE

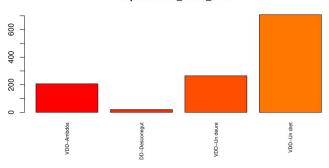
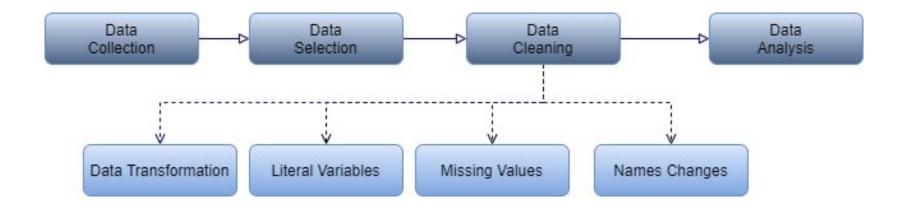


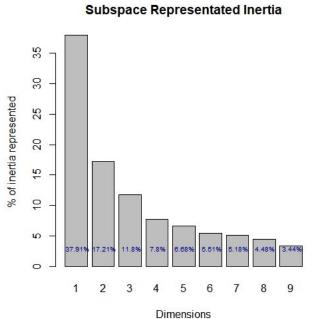
Table 28: Information about modalities of the Variable

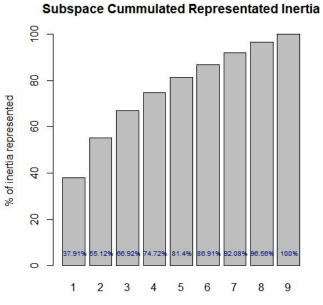
Modalities	Frequency	Proportion
VDD-Ambdós	207	0.1725000
VDD-Desconegut	20	0.0166667
VDD-Un deure	265	0.2208333
VDD-Un dret	708	0.5900000

Preprocessing Steps



PCA specifications



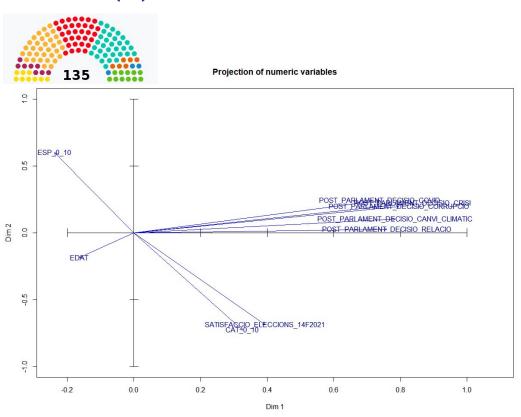


Dimensions

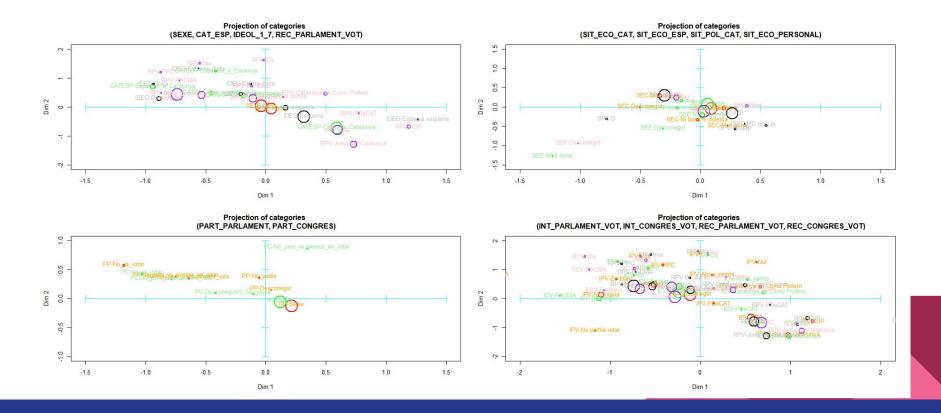
Criteria: 80% inertia Keep 5 components

First Factorial Plane for PCA (1)

Candidacy	Parties and		odina condidata	Idealoni	Previous	result	Con	Desi
Candidacy	dacy alliances Leading candidate		ading candidate	Ideology	Votes (%)	Seats	Gov.	Ret
Cs			Carlos Carrizosa	Liberalism	25.35%	36	X	[50]
JxCat	List [show]		Laura Borrás	Catalan independence Populism	21.66%[0]		1	[10] [51] [52] [53]
PDeCAT	List [show]	1	Àngels Chacón	Catalan independence Liberalism	21.66%	34	X	[54] [55] [56]
ERC	List [show]	9	Pere Aragonès	Catalan independence Social democracy	21.38%	32	1	[57] [58]
PSC-PSOE	List [show]	9	Salvador Illa	Social democracy	13.86%	17	x	[59] [60]
ECP-PEC	List [show]		Jéssica Albiach	Left-wing populism Direct democracy Eco-socialism	7.46%	8	x	[61] [62] [63]
CUP-G	List [show]	S	Dolors Sabater	Catalan independence Anti-capitalism Socialism	4.46%	4	x	[64] [65]
рр	List [show]	3	Alejandro Fernández	Conservatism Christian democracy	4.24%	4	×	[68] [67]
Vox	List [show]		Ignacio Garriga	Right-wing populism Ultranationalism National conservatism	Did not co	ontest	X	[68]



First Factorial Plane for PCA (2)

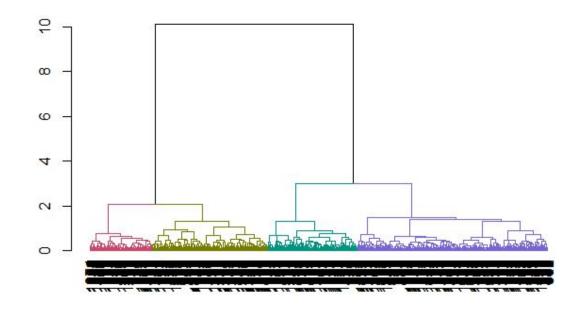


Conclusions of the PCA

- UL:
 - Spanish nationalism/sentiment, center or right-leaning.
 - o Didn't vote.
 - Spanish economic situation is good and catalan one is bad. Personal economic situation worsened and catalan political situation is neither good or bad.
- UR:
 - "Catalunya en Comú Podem" and "Other parties" votes.
- LL
 - Unknown answers to economic situation.
- LR:
 - Opposite answers from UL quadrant.
 - However, "Junts per Catalunya" doesn't fall into left-leaning.
 - Answers about Spanish and Catalan economic situation are diametrically opposed.

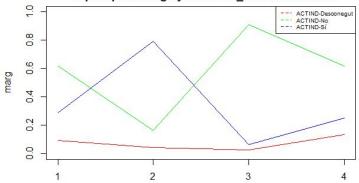
Clustering Process

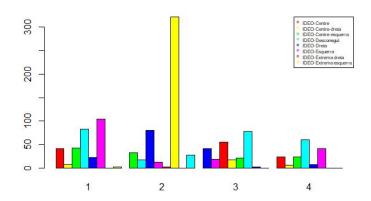
- dissimMatrix using gower as metric
- hclust using ward.D2 as method

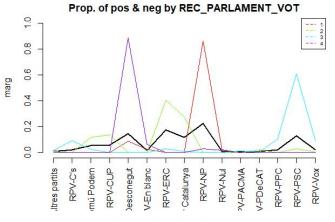


Class interpretation tools

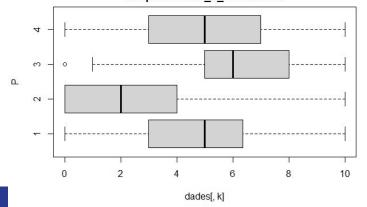








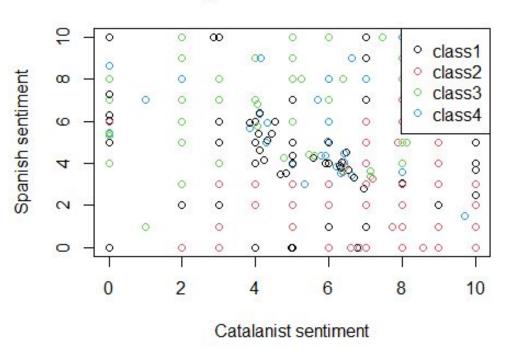




Our clusters

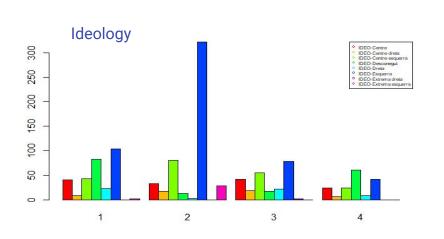
Class	1	2	3	4
N° of people	304	497	235	164

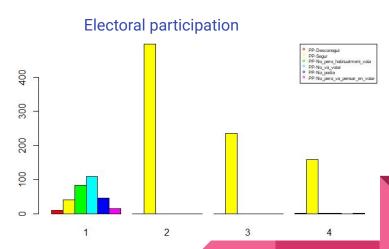
Clustering of credit data in 4 classes



Data profiling

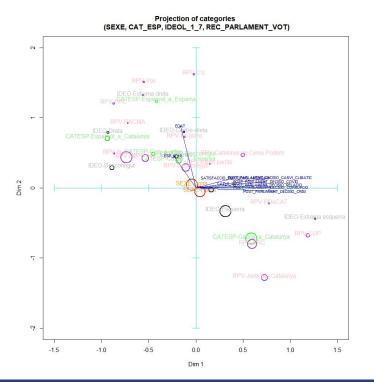
- Cluster 1: Don't go to vote. Usually young people.
- Cluster 2: Left-leaning. Favorable to the independence of Catalonia.
- Cluster 3: Centre and right-wing ideology. More monarchical.
- Cluster 4: Little political definition. Tend to vote blank.





Conclusions between PCA and clustering

Similar conclusions. Association between quadrants and clusters





Original and final scheduling

Nombre de la tarea	Fecha de inicio	Fecha de finalización	Asignado	Estado		23.09.2021	25.09.2021	26.09.2021	27.09.2021	29.09.2021	30.09.2021	01.10.2021	02.10.2021	1202.01.60	05.10.2021	06.10.2021	07.10.2021	08.10.2021	09.10.2021	11.10.2021	12.10.2021	13.10.2021	14.10.2021	15.10.2021	16.10.2021	17.10.2021	18.10.2021	20.10.2021	21.10.2021	22.10.2021	23.10.2021	24.10.2021	26.10.2021	27.10.2021
D3	23.09.2021	03.10.2021	Everyone *	Acabat	*																													
Tasca 1	23.09.2021	03.10.2021	Andreu/Àlex *	Acabat	~																													
Tasca 2	23.09.2021	30.09.2021	Àlex	Acabat	~																		- 0											
Tasca 3	23.09.2021	30.09.2021	Joan *	Acabat	~																													
Tasca 4	23.09.2021	30.09.2021	Lluc	Acabat	*																													
Subtasca 4.1	23.09.2021	30.09.2021	Lluc	Acabat	-													- 3		3														
Subtarea 4.2	23.09.2021	30.09.2021	Lluc	Acabat	~																													
Tasca 5	23.09.2021	30.09.2021	Àlex	Acabat	*													8																
Tasca 6	23.09.2021	26.09.2021	Andreu	Acabat	-			10																										
Tasca 7	29.09.2021	03.10.2021	Raúl	Acabat	*																													
Tasca 8	01.10.2021	03.10.2021	Joan/Lluc *	Acabat	*																													
Tasca 9	29.09.2021	03.10.2021	Guillermo	Acabat	*																													
Tasca 10	23.09.2021	30.09.2021	Guillermo/Raúl *	Acabat	*																													
Tasca 10.5	01.10.2021	03.10.2021	Andreu	Acabat	*			-																			-			-		-		
Entrega final	23.09.2021	28.10.2021	Everyone *	Acabat	-												- 0														0			
Tasca 11	25.10.2021	26.01.2021	Everyone *	Acabat	*																													
Tasca 12	25.10.2021	27.10.2021	Andreu	Acabat	*																													
Tasca 13	11.10.2021	14.10.2021	Guillermo/Raúl *	Acabat	*			8																										
Tasca 14	07.10.2021	09.10.2021	Andreu	Acabat	*																													
Tasca 15	07.10.2021	17.01.2020	Guillermo/Àlex *	Acabat	*																					100								
Tasca 16	14.10.2021	21.01.2020	Andreu/Joan/Lluc *	Acabat	*																													
Tasca 17	22.10.2021	24.10.2021	Andreu/Joan/Lluc *	Acabat	*																													
Tasca 18	25.09.2021	27.01.2020	Everyone	Acabat	*				Š																									
Tasca 19	07.10.2021	11.01.2020	Guillermo/Raúl *	Acabat	*																10													
Tasca 20	22.10.2021		Àlex	Acabat	-																													
Tasca 21	07.10.2021	13.10.2021	Àlex	Acabat	*																													