

# Read me for Replicability

## Judicial Decisions, Backlash and Secessionism: The Spanish Constitutional Court and Catalonia

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This document provides replication instructions for the analysis in “Judicial Decisions, Backlash and Secessionism: The Spanish Constitutional Court and Catalonia” by Agustin Casas, Federico Curci, and Antoni-Italo de Moragas in *the Economic Journal*. Section 1 provides instructions to replicators including software requirements, estimated runtime of the replication programs, and the main programs to run. Section 2 describes each folder present in the replication material. Section 3 describes each final data used, the programs to transform the raw data into the final data, the raw data used for creating the final data, the source of this data, and their availability. Finally, Section 4 describes each table and figure of the paper and the appendix, in which section is contained, its file name, the programs and data needed to produce them.

## 1 Instructions to replicators

1. Software requirements: The software used are Stata 18, R 4.0.3, and RStudio 1.3.1093 and the operating system is Microsoft Windows 10 64-bit.
2. We cannot provide all the raw data needed to produce the final data. If the replicator wants to create all the final data, he/she needs to first comply with the following step:
  - (a) If the replicator has a Down Jones’ Factiva subscription, he/she can obtain the data reported in Section 3.7. When obtaining the data the replicator should save those files in the folder *data/raw/factiva* and be sure to save the files in a *.rtf* format.
3. Be sure to change the working directory at the beginning of each program.
4. The replicator needs to install the following additional Stata modules (this can be done by running *ssc install NAMEMODULE* in Stata):
  - *boottest*
  - *coefplot*
  - *ebalance*
  - *estout*
  - *filelist*
  - *psacalc*
  - *ritest*
  - *outreg2*
5. The replicator needs to install the following additional R libraries (this can be done by running *install.packages("NAMELIBRARY")* in RStudio):
  - *striprtf*
  - *whoami*

6. To produce all the final data from the raw data, these are the required steps:
  - (a) If the replicator wants to produce the processed Down Jones' Factiva data (see Section 3.7), he/she needs to first run *1a\_R\_main\_cleaning.R* in R and then *1b\_stata\_main\_cleaning.do* in Stata. The estimated program runtime of the code *1a\_R\_main\_cleaning.R* can be expected to last around 167 minutes. The estimated program runtime of the code *1b\_stata\_main\_cleaning.do* can be expected to last around 5 seconds.
  - (b) For the cleaning of all the other data, the replicator needs to run *2\_stata\_main\_cleaning.do*. The estimated program runtime can be expected to last around 40 seconds.
7. To produce all the tables and figures of the paper and appendix using the final data, the replicator needs to run *3\_stata\_main\_analysis.do*. The estimated program runtime can be expected to last around 125 minutes.

## 2 Folders description

- *code*: this folder includes all the programs needed to produce the data used, and the tables, and figures of the paper and appendix.
  - *analysis*: this folder includes all the programs for separately producing the tables and figures of the paper and appendix.
    - \* *paper*: this folder includes all the programs for separately producing the tables and figures of the paper.
      - *tab*: this folder includes all the programs for separately producing the tables of the paper.
      - *fig*: this folder includes all the programs for separately producing the figures of the paper.
    - \* *appendix*: this folder includes all the programs for separately producing the tables and figures of the appendix.
      - *tab*: this folder includes all the programs for separately producing the tables of the appendix.
      - *fig*: this folder includes all the programs for separately producing the figures of the appendix.
  - *cleaning*: this folder includes all the programs for separately producing the data used in the paper and appendix.
- *data*: this folder includes both raw and processed data.
  - *final*: this folder includes all the files needed to produce the tables and figures of the paper and appendix.
  - *intermediate*: this folder includes all the intermediate data.
  - *raw*: this folder includes all the raw data.
    - \* *factiva*: this folder is where the replicator needs to save all the Factiva news raw data.
- *output*: all the illustrations produced after running the replication programs will be stored in this folder.
  - *fig\_rep*: all the figures produced after running the replication programs will be stored in this folder.
  - *tab\_rep*: all the tables produced after running the replication programs will be stored in this folder.

### 3 Data description

We here describe separately each final data, the programs to transform the raw data into the final data, the raw data used for creating the final data, the source of this data, and their availability.

#### 3.1 Main data: CEO survey data waves 2, 3, 4 of 2010 with restrictions

- Name of the final file: *data\_ceo\_restr.dta*
- Description: Centre d'Estudis d'Opinió (CEO) Barometer survey data for the second (April), third (June and July), and fourth wave (October) of 2010. This is the main database of the paper and includes variables with restricted use.
- Cleaning file:
  1. *cleaning\_ceo\_restr.do*. The output of this program is saved in *data/final*. This program also generates the raw data in a nonproprietary format, which is saved in *data/intermediate*.
- Raw data:
  1. *Microdades anonimitzades 581.sav*
  2. *Microdades anonimitzades 600.sav*
  3. *Microdades anonimitzades 612.sav*
- Source:
  1. *Microdades anonimitzades 581.sav*: CEO (2010a)
  2. *Microdades anonimitzades 600.sav*: CEO (2010b)
  3. *Microdades anonimitzades 612.sav*: CEO (2010c)
- Availability: Individual application to CEO asking for data that includes the hour of the interview, code of the interviewer, and continuous age of the respondent. To apply for the data the replicator needs to fill the form at this link and then insert the message detailed in Appendices A, B, or C according to the language of use. No monetary cost. We published the raw data in our replication package.
- Additional notes: The data dictionary for this database is reported in *data\_dictionary.xlsx*, in which we report a description of each variable used for generating an illustration of the paper. We also detail the original raw variable used to generate each variable, the use of the processed variable, and the illustrations of the paper that use every variable. The complete description of the dependent and control variables is reported in Appendices A.1 and A.2, respectively.

#### 3.2 CEO survey data 2006-2013 without restrictions

- Name of the final data: *data\_ceo\_2006\_2013.dta*
- Description: Centre d'Estudis d'Opinió (CEO) Barometer survey data from the second (June) wave of 2006 to the third (November) wave of 2011. This database does not include variables with restricted use.
- Cleaning file: *cleaning\_ceo\_2006\_2013.do*. The output of this program is saved in *data/final*. This program also generates the raw data in a nonproprietary format, which is saved in *data/intermediate*.
- Raw data: *Microdades anonimitzades fusio cine telf.sav*
- Source: CEO (2013)
- Availability: Data can be obtained freely without any application at this link by clicking on "Matriz de datos fusionada hasta el 2013 (telefónica)". We published the raw data in our replication package.

### 3.3 CIS survey data 2008

- Name of the final data: *data\_cis.dta*
- Description: Centro de Investigaciones Sociológicas (CIS) postelectoral survey on the national and Andalusian elections March 2008 survey data.
- Cleaning file: *cleaning\_cis.do*. The output of this program is saved in *data/final*. This program also generates the raw data in a nonproprietary format, which is saved in *data/intermediate*.
- Raw data: *2757.sav*.
- Source: CIS (2008)
- Availability: Data can be obtained at this link by clicking on "Fichero datos" and then filling a form. No monetary costs. We published the raw data in our replication package.

### 3.4 Catalan surnames

- Name of the final data: *dataGRMT.dta*
- Description: Data from Güell, Rodríguez Mora and Telmer (2015) about Catalan degree of surnames by comarcas.
- Cleaning file: None.
- Raw data: *dataGRMT.dta*
- Source: Güell, Rodríguez Mora and Telmer (2015)
- Availability: Data can be obtained freely without any application at this link. We published the raw data in our replication package.

### 3.5 Census and municipal register data

- Name of the final data: *data\_padroncenso.dta*
- Description: Data from the municipal register of 2010 provided by the Instituto de Estadística de Cataluña (Idescat) and the Spanish census of 2011 constructed by the Instituto Nacional de Estadística (INE) about Catalan identity at local level.
- Cleaning file: *cleaning\_padroncenso.do*. The output of this program is saved in *data/final*.
- Raw data:
  1. *pmh677mun.csv*
  2. *pmh8284mun.csv*
  3. *mpiscatalunya.csv*
  4. *municipis.csv*
- Source:
  1. *pmh677mun.csv*: Idescat (2022a)
  2. *pmh8284mun.csv*: Idescat (2022b)
  3. *mpiscatalunya.csv*: Idescat (2023)
  4. *municipis.csv*: INE (2011)
- Availability: Data can be obtained freely without any application at the links included in the references. We published the raw data in our replication package.

### 3.6 Google trends data

- Name of the final data: *multiTimeline\_estatut.csv*
- Description: Google trends data about searches in Catalonia about the word "Estatut" from January 2004 to July 2019
- Cleaning file: None.
- Raw data: *multiTimeline\_estatut.csv*
- Source: Google (2020)
- Availability: Data can be obtained freely without any application at this link. We published the raw data in our replication package.

### 3.7 Factiva news data

- Name of the final data: *data\_news.dta*
- Description: News data from Factiva containing the words “Estatut” and “Tribunal Constitucional” between June 28, 2009, and July 22, 2010, in Catalan or in Spanish in Catalonia.
- Cleaning files:
  1. *cleaning\_news\_intermediate.R*: this program transforms the raw .rtf data into intermediate .txt data. The output of this program is saved in *data/intermediate*.
  2. *cleaning\_news\_final.do*: this programs transform the intermediate data into final data. The intermediate outputs of this program are saved in *data/intermediate* and the final output in *data/final*.
- Raw data:
  1. *Factiva-20200703-1255.rtf* - *Factiva-20200703-1542.rtf*: searches for words "estatut" and "tribunal constitucional" from June 28, 2009, and August 1, 2010 using Catalan as language.
  2. *Factiva-20200703-1657.rtf* - *Factiva-20200703-1719.rtf*, *Factiva-20200706-1125.rtf* - *Factiva-20200706-1227.rtf*: searches for words "estatut" and "tribunal constitucional" from June 28, 2009, and July 22, 2010 using Spanish as language in Catalonia.
- Source: Factiva (2020)
- Availability: Data can be obtained using a subscription to Factiva and then saving each export page. We cannot publish the raw data in our replication package.

### 3.8 Catalan parliament voting data

- Name of the final data: *data\_autonomiques.dta*
- Description: Election data of the Catalan Parliament in 1999, 2003, 2006, 2010, 2012, and 2015 at the municipality level from the Generalitat de Catalunya (Gencat).
- Cleaning file: *cleaning\_autonomiques.do*. The output of this program is saved in *data/final*.
- Raw data:
  1. *FilesParticipacio\_A\*1\_MU\_ca\_ES*: data on turnout
  2. *FilesVots\_A\*1\_MU\_ca\_ES*: data on voting
- Source: Gencat (2020)

- Availability: Data can be obtained freely without any application at this link by selecting "Eleccions al Parlament de Catalunya", the corresponding elections years, and municipal level data ("Escolliu els nivells territorials" "Municipi") and then downloading the data ("Descarrega les dades"). We published the raw data in our replication package.
- Additional note: the database *data\_voting.dta* is generated from *data\_autonomiques.dta* using *table\_a34\_aux\_cleaning\_voting.do*.

## 4 Programs to produce the tables and figure in the paper and appendix

There exist two kinds of do files to produce the tables and figures in the paper and appendix:

1. *table\_\*.do* and *figure\_\*.do*: These are the main files to produce separately the tables and figures of the paper and appendix.
2. *table\_\*\_aux\_\*.do* and *figure\_\*\_aux\_\*.do*: These are auxiliary programs required by *table\_\*.do* and *figure\_\*.do*

### 4.1 Tables in the paper

We here describe each table of the paper, in which section is contained, its file name, the programs, and the data needed to produce it. The output of each program is saved in *output/tab\_rep*.

Illustration	Section	File name	Program	Data used
Table 1	4.1	table_balancing.txt	table_1.do	data_ceo_restr.dta
Table 2	5	table_probl.tex	table_2.do	data_ceo_restr.dta
Table 3	5	table_main.tex	table_3.do	data_ceo_restr.dta
Table 4	5	table_trust.tex	table_4.do	data_ceo_restr.dta
Table 5	6.1	table_identity_polariz_wc.tex	table_5.do	data_ceo_restr.dta
Table 6	6.2	table_vote.tex	table_6.do	data_ceo_restr.dta

### 4.2 Figures in the paper

We here describe each figure of the paper, in which section is contained, its file name, the programs, and the data needed to produce it. The output of each program is saved in *output/fig\_rep*.

Illustration	Section	File name	Program	Data used
Figure 1	4.1	figure_pretrends_06_11.png	figure_1.do	data_ceo_restr.dta data_ceo_2006_2013.dta
Figure 2	5	figure_cplot_main.png	figure_2.do	data_ceo_restr.dta
Figure 3	5.1	rob_combined_multyptest.png	figure_3.do figure_3_aux_cleaning_wait.do figure_3_aux_fdr_sharpened_qvalues.do	data_ceo_restr.dta
Figure 4	6.1	figure_cplot_identity.png	figure_4.do	data_ceo_restr.dta
Figure 5	6.2	figure_cplot_polariz_pp.png	figure_5.do	data_ceo_restr.dta
Figure 6	6.2	figure_het_time.png	figure_6.do	data_ceo_restr.dta

### 4.3 Tables in the appendix

We here describe each table of the appendix, in which section is contained, its file name, the programs, and the data needed to produce it. The output of each program is saved in *output/tab\_rep*.

Illustration	Section	File name	Program	Data used
Table A.1	A.3	table_balancing_sumdep.txt	table_a1.do	data_ceo_restr.dta
Table A.2	A.3	table_balancing_sumout.txt	table_a2.do	data_ceo_restr.dta
Table A.3	A.3	table_sum_party.txt	table_a3.do	data_ceo_2006_2013.dta
Table A.4	B.3	table_events.tex	-	-
Table A.5	C.1	table_probl_app.tex	table_a5.do	data_ceo_restr.dta
Table A.6	C.2.1	table_main_controls.tex	table_a6.do	data_ceo_restr.dta
Table A.7	C.2.2	table_het.tex	table_a7.do	data_ceo_restr.dta
Table A.8	C.3.1	table_identity.tex	table_a8.do	data_ceo_restr.dta
Table A.9	C.3.2	table_bal_cat.tex	table_a9.do	data_ceo_restr.dta
Table A.10	C.4.1	table_polariz_parties.tex	table_a10.do	data_ceo_restr.dta
Table A.11	C.4.3	table_bias.tex	table_a11.do	data_ceo_restr.dta
Table A.12	C.4.4	table_tv3.tex	table_a12.do	data_ceo_restr.dta
Table A.13	E.1	table_oster.txt	table_a13.do	data_ceo_restr.dta
Table A.14	E.1	table_pl_order.tex	table_a14.do	data_ceo_restr.dta
Table A.15	E.2	table_rob_fe.tex	table_a15.do	data_ceo_restr.dta
Table A.16	E.3	table_balancing_restrictions.txt	table_a16.do	data_ceo_restr.dta
Table A.17	E.3	table_rob_timehour.tex	table_a17.do	data_ceo_restr.dta
Table A.18	E.4	table_rob_unbalancedness.tex	table_a18.do	data_ceo_restr.dta
Table A.19	E.4	table_balancing_wave2.txt	table_a19.do	data_ceo_restr.dta
Table A.20	E.5	table_rob_trust.tex	table_a20.do	data_ceo_restr.dta
Table A.21	E.5	table_nonresp_partic.tex	table_a21.do table_a21_aux_cleaning_wait.do	data_ceo_restr.dta
Table A.22	E.6.1	table_rob_se.tex	table_a22.do	data_ceo_restr.dta
Table A.23	E.6.2	table_multyptest.txt	table_a23.do table_a23_aux_fdr_sharpened_qvalues.do	data_ceo_restr.dta
Table A.24	E.7	table_rob_spec_probit.tex	table_a24.do	data_ceo_restr.dta
Table A.25	E.7	table_rob_spec_trust.tex	table_a25.do	data_ceo_restr.dta
Table A.26	E.8	table_inst_cat_rob_collin.tex	table_a26.do	data_ceo_restr.dta
Table A.27	E.9	table_rob_worldcup.tex	table_a27.do	data_ceo_restr.dta
Table A.28	E.9	table_rob_worldcup_victories.tex	table_a28.do	data_ceo_restr.dta data_ceo_2006_2013.dta
Table A.29	E.10	table_rob_vote.tex	table_a29.do	data_ceo_restr.dta
Table A.30	F.1	table_het_indeptrib.tex	table_a30.do	dataset_ceo_restr.dta data_ceo_2006_2013.dta
Table A.31	F.2.2	table_polariz_inst_cat.tex	table_a31.do	data_ceo_restr.dta data_ceo_2006_2013.dta
Table A.32	F.3	table_pers_voting.tex	table_a32.do table_a32_a33_a34_aux_prediction_w3.do	data_ceo_restr.dta data_autonomiques.dta
Table A.33	F.3.2	table_pers_voting_app.tex	table_a33.do table_a32_a33_a34_aux_prediction_w3.do	data_ceo_restr.dta data_autonomiques.dta
Table A.34	F.3.2	table_pers_voting_rob.tex	table_a34.do table_a32_a33_a34_aux_prediction_w3.do table_a34_aux_prediction_w2_w3.do table_a34_aux_bootstrap.do table_a34_aux_clean_voting.do	data_ceo_restr.dta data_autonomiques.dta data_voting.dta



## 4.4 Figures in the appendix

We here describe each figure of the appendix, in which section is contained, its file name, the programs, and the data needed to produce it. The output of each program is saved in *output/fig\_rep*.

Illustration	Section	File name	Program	Data used
Figure A.1	A.3	figure_allbyhour.png	figure_a1.do	data_ceo_restr.dta
Figure A.2	A.4	figure_ceovscis.png	figure_a2.do	data_ceo_2006_2013.dta data_cis.dta
Figure A.3	B.3	ts_pref_ceo.png	figure_a3.do	data_ceo_2006_2013.dta
Figure A.4	C.1	ts_probl_fin.png	figure_a4.do	data_ceo_2006_2013.dta
Figure A.5	C.2.1	figure_cplot_control.png	figure_a5.do	data_ceo_restr.dta
Figure A.6	C.2.2	figure_cplot_het_ident.png figure_cplot_het_sociodem.png figure_cplot_hetv_socioeco.png	figure_a6.do	data_ceo_restr.dta
Figure A.7	C.2.2	figure_cplot_het_ident_all.png	figure_a7.do	data_ceo_restr.dta
Figure A.8	C.3.3	figure_cplot_feel_polariz.png	figure_a8.do	data_ceo_restr.dta
Figure A.9	C.4.1	figure_cplot_polariz_parties.png	figure_a9.do	data_ceo_restr.dta
Figure A.10	C.4.2	figure_cplot_vote.png	figure_a10.do	data_ceo_restr.dta
Figure A.11	C.4.3	composition_tc.png	-	-
Figure A.12	D.1.1	figure_predindep.png figure_predfeel.png	figure_a12.do	data_ceo_restr.dta
Figure A.13	D.1.2	figure_cplot_balancing_catalanism_noage.png figure_cplot_balancing_catalanism_age.png	figure_a13.do	data_ceo_restr.dta dataGRMT.dta data_padroncenso.dta
Figure A.14	D.2	figure_pretrends_wave2.png	figure_a14.do	data_ceo_restr.dta
Figure A.15	D.3	google.png figure_news.png	figure_a15.do	multiTimeline_estatut.csv data_news.dta
Figure A.16	E.2	leavecomarcasout.png	figure_a16.do	data_ceo_restr.dta
Figure A.17	E.3	figure_rob_time.png figure_rob_hour.png	figure_a17.do	data_ceo_restr.dta
Figure A.18	E.5	figure_cplot_noansw.png	figure_a18.do	data_ceo_restr.dta
Figure A.19	E.7	figure_rob_spec_trust.png	figure_a19.do	data_ceo_restr.dta
Figure A.20	E.9	-	-	-
Figure A.21	E.10	figure_cplot_pastvote.png	figure_a21.do	data_ceo_restr.dta
Figure A.22	F.1	figure_pers_survey_indep.png figure_pers_survey_trib.png	figure_a22.do	data_ceo_restr.dta data_ceo_2006_2013.dta
Figure A.23	F.3.1	figure_het_geo.png	figure_a23.do	data_ceo_restr.dta
Figure A.24	F.3.2	figure_margin_voting.png	figure_a24.do figure_a24_aux_prediction_w3.do	data_ceo_restr.dta data_autonomiques.dta

## A Application process to CEO data in English

With the objective of replicating the results of the article 'Judicial Decisions, Backlash and Secessionism: The Spanish Constitutional Court and Catalonia' published in Economic Journal, I request the variables that I specify below:

- C100
- C110
- C120
- C340
- C400
- C500
- C600
- C701
- C702
- C703
- p1\_200\_R
- p1\_600\_R
- P1\_601\_E
- p1\_700\_R
- p1\_1200\_R
- p1\_1600\_R
- p1\_9600\_R
- p1\_9500\_R
- p1\_9800\_R
- p1\_9900\_R
- P2
- P2\_R
- P16A
- P16\_INTERNET\_U
- P16\_AMICS\_U
- P18
- P20A
- P20B
- P20D
- P20F
- P20G

- P20H
- P22A
- P22B
- P22C
- P22D
- P22E
- P22F
- P25
- P28
- P30
- P32
- ANY
- DIA
- MES
- HOR\_INI
- HOR\_FIN
- MIN\_INI
- MIN\_FIN
- SEG\_INI
- SEG\_FIN
- codi\_enq
- edat
- gr\_edat
- LLENGUA
- sexe
- COMARCA
- HABITAT
- PROVI
- CODMUN
- POND\_GEO
- Ordre\_petició

From the following barometers:

- Baròmetre d'Opinió Política. 2a onada 2010
- Baròmetre d'Opinió Política. 3a onada 2010
- Baròmetre d'Opinió Política. 4a onada 2010

Sincerely,

## B Application process to CEO data in Catalan

Amb l'objectiu de replicar els resultats de l'article "Judicial Decisions, Backlash and Secessionism: The Spanish Constitutional Court and Catalonia" publicat a the Economic Journal, sol·licito les variables que especifico a continuació:

- C100
- C110
- C120
- C340
- C400
- C500
- C600
- C701
- C702
- C703
- p1\_200\_R
- p1\_600\_R
- P1\_601\_E
- p1\_700\_R
- p1\_1200\_R
- p1\_1600\_R
- p1\_9600\_R
- p1\_9500\_R
- p1\_9800\_R
- p1\_9900\_R
- P2
- P2\_R
- P16A
- P16\_INTERNET\_U
- P16\_AMICS\_U
- P18
- P20A
- P20B
- P20D
- P20F
- P20G

- P20H
- P22A
- P22B
- P22C
- P22D
- P22E
- P22F
- P25
- P28
- P30
- P32
- ANY
- DIA
- MES
- HOR\_INI
- HOR\_FIN
- MIN\_INI
- MIN\_FIN
- SEG\_INI
- SEG\_FIN
- codi\_enq
- edat
- gr\_edat
- LLENGUA
- sexe
- COMARCA
- HABITAT
- PROVI
- CODMUN
- POND\_GEO
- Ordre\_petició

Dels següents baròmetres:

- Baròmetre d'Opinió Política. 2a onada 2010
- Baròmetre d'Opinió Política. 3a onada 2010
- Baròmetre d'Opinió Política. 4a onada 2010

Atentament,

## C Application process to CEO data in Spanish

Con el objetivo de replicar los resultados del artículo 'Judicial Decisions, Backlash and Secessionism: The Spanish Constitutional Court and Catalonia' publicado en the Economic Journal, solicito las variables que especifico a continuación:

- C100
- C110
- C120
- C340
- C400
- C500
- C600
- C701
- C702
- C703
- p1\_200\_R
- p1\_600\_R
- P1\_601\_E
- p1\_700\_R
- p1\_1200\_R
- p1\_1600\_R
- p1\_9600\_R
- p1\_9500\_R
- p1\_9800\_R
- p1\_9900\_R
- P2
- P2\_R
- P16A
- P16\_INTERNET\_U
- P16\_AMICS\_U
- P18
- P20A
- P20B
- P20D
- P20F
- P20G

- P20H
- P22A
- P22B
- P22C
- P22D
- P22E
- P22F
- P25
- P28
- P30
- P32
- ANY
- DIA
- MES
- HOR\_INI
- HOR\_FIN
- MIN\_INI
- MIN\_FIN
- SEG\_INI
- SEG\_FIN
- codi\_enq
- edat
- gr\_edat
- LLENGUA
- sexe
- COMARCA
- HABITAT
- PROVI
- CODMUN
- POND\_GEO
- Ordre\_petició

De los siguientes barómetros:

- Baròmetre d'Opinió Política. 2a onada 2010
- Baròmetre d'Opinió Política. 3a onada 2010
- Baròmetre d'Opinió Política. 4a onada 2010

Atentamente,

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