

Package ‘fec16’

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Title Data Package for the 2016 United States Federal Elections

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Description Easily analyze relational data from the United States 2016 federal election cycle as reported by the Federal Election Commission. This package contains data about candidates, committees, and a variety of different financial expenditures. Data is from <<https://www.fec.gov/data/browse-data/?tab=bulk-data>>.

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Depends R (>= 3.5.0)

Imports dplyr, readr, vroom, usethis

Suggests testthat (>= 2.1.0), scales, knitr, rmarkdown, fs, lubridate, ggplot2, stringr, utf8

Encoding UTF-8

LazyData true

URL <https://github.com/baumer-lab/fec16>

BugReports <https://github.com/baumer-lab/fec16/issues>

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campaigns	<i>House/Senate Current Campaigns</i>
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Description

Summary financial information for each campaign.

Usage

campaigns

Format

A data frame with 1898 rows and 25 columns, providing financial information for each House/Senate campaign:

cand_id A code assigned to a candidate by the FEC

cand_name Candidate name

cand_ici Incumbent challenger status with designation: C = Challenger, I = Incumbent, O = Open Seat

pty_cd Party code

cand_pty_affiliation The political party affiliation reported by the candidate

tll_receipts Total receipts

trans_from_auth Transfers from authorized committees

ttl_disb Total disbursements
trans_to_auth Transfers to authorized committees
coh_bop Beginning cash
coh_cop Ending cash
cand_contrib Contributions from candidate
cand_loans Loans from candidate
other_loans Other loans
cand_loan_repay Candidate loan repayments
other_loan_repay Other loan repayments
debts_owed_by Debts owed by
ttl_indiv_contrib Total individual contribution
cand_office_st Candidate's state
cand_office_district Candidate's district
other_pol_cmte_contrib Contributions from other political committees
pol_pty_contrib Contributions from party committees
cvg_end_dt Coverage end date (YYYY-MM-DD)
indiv_refunds Refunds to individuals
cmte_refunds Refunds to committees

Source

<https://transition.fec.gov/general/FederalElections2016.shtml>, updated 2020-03-02

candidates	<i>Candidates Master metadata</i>
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Description

Basic information for each candidate.

Usage

candidates

Format

A data frame with 4648 rows and 15 columns, providing information for each candidate:

cand_id A 9-character alpha-numeric code assigned to a candidate by the FEC, which remains the same across election cycles if running for the same office
cand_name Candidate name
cand_pty_affiliation The political party affiliation reported by the candidate

cand_election_yr Candidate's Election Year
cand_office_st Candidate's state
cand_office Candidate office with designation: H = House, P = President, S = Senate
cand_office_district Congressional district number: Congressional at-large 00, Senate 00, Presidential 00
cand_ici Incumbent challenger status with designation: C = Challenger, I = Incumbent, O = Open Seat
cand_status Candidate status with designation: C = Statutory candidate, F = Statutory candidate for future election, N = Not yet a statutory candidate, P = Statutory candidate in prior cycle
cand_pcc ID of the candidate's principal campaign committee assigned by FEC
cand_st1 Candidate's Mailing address - street 1
cand_st2 Candidate's Mailing address - street 2
cand_city Candidate's Mailing address - city
cand_st Candidate's Mailing address - state
cand_zip Candidate's Mailing address - ZIP code

Source

<https://www.fec.gov/campaign-finance-data/candidate-master-file-description/>, updated 2020-03-02

committees

Committees metadata

Description

Provides data pertaining to each committee registered with the Federal Election Commission.

Usage

committees

Format

A data frame with 17654 rows and 15 columns with information about FEC committees.

cmte_id A 9-character alpha-numeric code assigned to a committee by the Federal Election Commission
cmte_nm Name of the committee
tres_nm The officially registered treasurer for the committee
cmte_st1 Street 1
cmte_st2 Street 2
cmte_city City

cmte_st State

cmte_zip ZIP Code

cmte_dsgn A = Authorized by a candidate

B = Lobbyist/Registrant PAC

D = Leadership PAC

J = Joint fundraiser

P = Principal campaign committee of a candidate

U = Unauthorized

cmte_tp Committee Type, listed here: <https://www.fec.gov/campaign-finance-data/committee-type-code-descriptions/>

cmte_pty_affiliation Committee Party, listed here: <https://www.fec.gov/campaign-finance-data/party-code-descriptions/>

cmte_filing_freq Filing frequency: A = Administratively terminated,

D = Debt

M = Monthly filer

Q = Quarterly filer

T = Terminated

W = Waived

org_tp Interest group category:

C = Corporation

L = Labor organization

M = Membership organization

T = Trade association

V = Cooperative

W = Corporation without capital stock

connected_org_nm Connected organization's name

cand_id Candidate identification: When a committee has a committee type designation of H, S, or P, the candidate's identification number will be entered in this field.

Source

<https://www.fec.gov/campaign-finance-data/committee-master-file-description/>, updated 2020-03-02

contributions

Committee contributions metadata

Description

Provides data pertaining to each candidate and their contributions from committees during the 2016 general election.

Usage

contributions

Format

A data frame with 1000 rows and 15 columns with information about candidate committee contributions.

cmte_id A 9-character alpha-numeric code assigned to a committee by the Federal Election Commission

amndt_ind Amendment indicator: Indicates if the report being filed is new (N), an amendment (A) to a previous report or a termination (T) report

rpt_tp Indicates the type of report filed, listed here: <https://www.fec.gov/campaign-finance-data/report-type-code-descriptions/>

transaction_pgi This code indicates the election for which the contribution was made. EYYYY (election Primary, General, Other plus election year)

transaction_tp Transaction types, listed here: <https://www.fec.gov/campaign-finance-data/transaction-type-code-descriptions/>

entity_tp Entity Type:

CAN = Candidate

CCM = Candidate Committee

COM = Committee

IND = Individual (a person)

ORG = Organization (not a committee and not a person)

PAC = Political Action Committee

PTY = Party Organization

name Contributor/lender/transfer Name

city City

state State

zip_code ZIP Code

transaction_dt Transaction date (YYYY-MM-DD)

transaction_amt Transaction Amount

other_id For contributions from individuals this column is null. For contributions from candidates or other committees this column will contain that contributor's FEC ID

cand_id A 9-character alpha-numeric code assigned to a candidate by the FEC, which remains the same across election cycles if running for the same office

tran_id Only for Electronic Filings. A unique identifier associated with each itemization or transaction appearing in an FEC electronic file. A transaction ID is unique for a specific committee for a specific report.

Source

<https://www.fec.gov/campaign-finance-data/contributions-committees-candidates-file-description/>, Updated 2020-03-02

expenditures	<i>Operating Expenditures</i>
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Description

Operating expenditure information for a simple random sample of 1000 entries out of 1744187

Usage

expenditures

Format

A data frame with 1000 rows and 20 columns:

cmte_id A 9-character alpha-numeric code assigned to a committee by the Federal Election Commission

amndt_ind Amendment indicator: Indicates if the report being filed is new (N), an amendment (A) to a previous report or a termination (T) report

rpt_yr Report year

rpt_tp Indicates the type of report filed, listed here: <https://www.fec.gov/campaign-finance-data/report-type-code-descriptions/>

line_num Indicates FEC form line number

form_tp_cd Indicates FEC form type

sched_tp_cd Schedule type: Schedule B - Itemized disbursements

name Contributor/lender/Transfer Name

city City

state State

zip_code ZIP Code

transaction_dt Transaction date (YYYY-MM-DD)

transaction_amt Transaction Amount

transaction_pgi Primary general indicator

purpose Purpose

category Disbursement category code: 001-012 and 101-107

category_desc Disbursement Category Code Description, listed here: <https://www.fec.gov/campaign-finance-data/disbursement-category-code-descriptions/>

entity_tp Entity Type:

CAN = Candidate

CCM = Candidate Committee

COM = Committee

IND = Individual (a person)

ORG = Organization (not a committee and not a person)

PAC = Political Action Committee

PTY = Party Organization

tran_id Only for Electronic Filings. A unique identifier associated with each itemization or transaction appearing in an FEC electronic file. A transaction ID is unique for a specific committee for a specific report.

back_ref_tran_id Back reference transaction ID: Used to associate one transaction with another transaction in the same report (using file number, transaction ID and back reference transaction ID). For example, a credit card payment and the sub-itemization of specific purchases. The back reference transaction ID of the specific purchases will equal the transaction ID of the payment to the credit card company.

Source

<https://www.fec.gov/campaign-finance-data/operating-expenditures-file-description/>, updated 2020-03-02

fec16

fec16: A Data Package for the 2016 Elections

Description

The fec16 package provides the following 9 datasets from the Federal Election Commission's 2015-2016 election cycle:

Datasets

- Candidates: [candidates](#)
- Committees: [committees](#)
- House Results: [results_house](#)
- Senate Results: [results_senate](#)
- Presidential Results: [results_president](#)
- Individual Contributions: [individuals](#)
- Committee Contributions: [contributions](#)
- House/Senate Current Campaigns: [campaigns](#)
- Operating Expenditures: [expenditures](#)
- Transactions From One Committee To Another: [transactions](#)
- Political Action Committee (PAC) and Party Summary Financial Information: [pac](#)

The entire [candidates](#), [committees](#), [campaigns](#), [results_house](#), [results_senate](#), [results_president](#), and [pac](#) datasets and samples containing 1000 entries of the other datasets are available directly in the package. For the datasets containing samples, full versions can be retrieved via the following functions:

- Individual Contributions: [read_all_individuals](#)
- Committee Contributions: [read_all_contributions](#)
- Operating Expenditures: [read_all_expenditures](#)
- Transactions From One Committee To Another: [read_all_transactions](#)

In addition, fec16 provides the [states](#) dataset giving geographical information about the 50 states.

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See Also

Useful links:

- <https://github.com/baumer-lab/fec16>
- Report bugs at <https://github.com/baumer-lab/fec16/issues>

individuals

Individual Contributions Master metadata

Description

Information for a simple random sample of transactions from individuals to candidates/committees.

Usage

individuals

Format

A data frame with 1000 rows and 16 columns providing information for each transaction:

cmte_id A 9-character alpha-numeric code assigned to a committee by the Federal Election Commission

amndt_ind Amendment indicator: Indicates if the report being filed is new (N), an amendment (A) to a previous report or a termination (T) report

rpt_tp Indicates the type of report filed, listed here: <https://www.fec.gov/campaign-finance-data/report-type-code-descriptions/>

transaction_pgi This code indicates the election for which the contribution was made. EYYYY (election Primary, General, Other plus election year)

transaction_tp Transaction types, listed here: <https://www.fec.gov/campaign-finance-data/transaction-type-code-descriptions/>

entity_tp Entity Type:

CAN = Candidate

CCM = Candidate Committee

COM = Committee

IND = Individual (a person)

ORG = Organization (not a committee and not a person)

PAC = Political Action Committee

PTY = Party Organization

name Contributor/lender/Transfer Name

city City

state State

zip_code ZIP Code

employer Employer

occupation Occupation

transaction_dt Transaction date (YYYY-MM-DD)

transaction_amt Transaction Amount

other_id For contributions from individuals this column is null. For contributions from candidates or other committees this column will contain that contributor's FEC ID.

tran_id Only for Electronic Filings. A unique identifier associated with each itemization or transaction appearing in an FEC electronic file. A transaction ID is unique for a specific committee for a specific report.

Source

<https://www.fec.gov/campaign-finance-data/contributions-individuals-file-description/>, updated 2020-03-02

pac

Political Action Committee (PAC) and Party Summary Financial Information

Description

PAC and party summary financial information

Usage

pac

Format

A data frame with 12049 rows and 27 columns:

cmte_id A 9-character alpha-numeric code assigned to a committee by the Federal Election Commission

cmte_nm Name of the committee

cmte_tp Committee Type, listed here: <https://www.fec.gov/campaign-finance-data/committee-type-code-description>

cmte_dsgn A = Authorized by a candidate

B = Lobbyist/Registrant PAC

D = Leadership PAC

J = Joint fundraiser

P = Principal campaign committee of a candidate

U = Unauthorized

cmte_filing_freq Filing frequency: A = Administratively terminated,

D = Debt

M = Monthly filer

Q = Quarterly filer

T = Terminated

W = Waived

ttl_receipts Total receipts

trans_from_aff Transfers from affiliates

indv_contrib Contributions from individuals

other_pol_cmte_contrib Contributions from other political committees

cand_contrib Contributions from candidate

cand_loans Candidate loans

ttl_loans_received Total loans received

ttl_disb Total disbursements

tranf_to_aff Transfers to affiliates

indv_refunds Refunds to individuals

other_pol_cmte_refunds Refunds to other political committees

cand_loan_repay Candidate loan repayments

loan_repay Loan repayments

coh_bop Cash beginning of period

coh_cop Cash close of period

debts_owed_by Debts owed by

nonfed_trans_received Non-federal transfers received

contrib_to_other_cmte Contributions to other committees

ind_exp Independent expenditures

pty_coord_exp Party coordinated expenditures

nonfed_share_exp Non-federal share expenditures

cvg_end_dt Coverage end date (YYYY-MM-DD)

Source

<https://www.fec.gov/campaign-finance-data/pac-and-party-summary-file-description/>, updated 2020-03-02

read_all_contributions

Committee contributions metadata

Description

read_all_contributions returns a dataframe about contribution data

Usage

```
read_all_contributions(n_max = Inf, verbose = interactive())
```

Arguments

n_max	Integer specifying the max amount of entries in the dataset. Defaults to the possible maximum.
verbose	A progress bar is shown if R is running interactively. Defaults to interactive().

Value

The entire dataframe. More information about variables is at ?contributions.

Examples

```
read_all_contributions()
read_all_contributions(n_max = 250)
```

read_all_expenditures *Operating Expenditures*

Description

read_all_expenditures returns a dataframe about operating expenditure data

Usage

```
read_all_expenditures(n_max = Inf, verbose = interactive())
```

Arguments

n_max	Integer specifying the max amount of entries in the dataset. Defaults to the possible maximum.
verbose	A progress bar is shown if R is running interactively. Defaults to interactive().

Value

The entire dataframe. More information about variables is at `?expenditures`.

Examples

```
read_all_expenditures()
read_all_expenditures(n_max = 250)
```

read_all_individuals *Individual Contributions Master metadata*

Description

`read_all_individuals` returns a dataframe about transactions from individuals to candidates/committees

Usage

```
read_all_individuals(n_max = Inf, verbose = interactive())
```

Arguments

n_max	Integer specifying the max amount of entries in the dataset. Defaults to the possible maximum.
verbose	A progress bar is shown if R is running interactively. Defaults to <code>interactive()</code> .

Value

The entire dataframe. More information about variables is at `?individuals`.

Examples

```
read_all_individuals()
read_all_individuals(n_max = 250)
```

read_all_transactions *Any Transaction From One Committee To Another*

Description

`read_all_transactions` returns a dataframe about transaction data

Usage

```
read_all_transactions(n_max = Inf, verbose = interactive())
```

Arguments

n_max	Integer specifying the max amount of entries in the dataset. Defaults to the possible maximum.
verbose	A progress bar is shown if R is running interactively. Defaults to interactive().

Value

The entire dataframe. More information about variables is at ?transactions.

Examples

```
read_all_transactions()
read_all_transactions(n_max = 250)
```

results_house	<i>House Election Results</i>
---------------	-------------------------------

Description

2016 House General Election Results

Usage

```
results_house
```

Format

A data frame with 2110 rows and 13 columns providing information the House election results:

state The state of the votes

district_id District ID

cand_id A code assigned to a candidate by the FEC

incumbent A logical variable: TRUE if incumbent, FALSE if not

party Party of the candidate

primary_votes Number of votes in the primary election

primary_percent Percentage of votes in the primary election

runoff_votes Number of runoff votes

runoff_percent Percentage of runoff votes

general_votes Number of votes in the general election

general_percent Percentage of votes in the general election

won A logical variable: TRUE if candidate won, FALSE if not

footnotes Footnotes

Source

<https://transition.fec.gov/general/FederalElections2016.shtml>, updated 2020-03-02

See Also

[results_senate](#), [results_president](#)

results_president	<i>Presidential Election Results</i>
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Description

2016 House General Election Results

Usage

results_president

Format

A data frame with 619 rows and 6 columns providing information the House election results:

cand_id A code assigned to a candidate by the FEC

state The state of the votes

party Party of the candidate

general_votes Number of votes in the general election

general_percent Percentage of votes in the general election

won A logical variable: TRUE if candidate won, FALSE if not

Source

<https://transition.fec.gov/general/FederalElections2016.shtml>, updated 2020-03-02

See Also

[results_house](#), [results_senate](#)

results_senate	<i>Senate Election Results</i>
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Description

2016 House General Election Results

Usage

results_senate

Format

A data frame with 377 rows and 10 columns providing information the House election results:

state The state of the votes

cand_id A code assigned to a candidate by the FEC

incumbent A logical variable: TRUE if incumbent, FALSE if not

party Party of the candidate

primary_votes Number of votes in the primary election

primary_percent Percentage of votes in the primary election

general_votes Number of votes in the general election

general_percent Percentage of votes in the general election

won A logical variable: TRUE if candidate won, FALSE if not

footnotes Footnotes

Source

<https://transition.fec.gov/general/FederalElections2016.shtml>, updated 2020-03-02

See Also

[results_house](#), [results_president](#)

states	<i>US States lookup table</i>
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Description

US States lookup table

Usage

states

Format

A data frame with 50 rows and 4 columns:

state two-character postal abbreviation

state_name the name of the state

state_region coarse region of the country that the state belongs to

state_division finer region of the country that the state belongs to

Source

[state](#)

transactions	<i>Any Transaction From One Committee To Another</i>
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Description

Transaction information between committees

Usage

transactions

Format

A data frame with 1000 rows and 16 columns:

cmte_id A 9-character alpha-numeric code assigned to a committee by the Federal Election Commission

amndt_ind Amendment indicator: Indicates if the report being filed is new (N), an amendment (A) to a previous report or a termination (T) report

rpt_tp Indicates the type of report filed, listed here: <https://www.fec.gov/campaign-finance-data/report-type-code-descriptions/>

transaction_pgi Primary general indicator: This code indicates the election for which the contribution was made. EYYYY (election Primary, General, Other plus election year)

transaction_tp Transaction type, listed here: <https://www.fec.gov/campaign-finance-data/transaction-type-code-descriptions>

entity_tp Entity Type:

CAN = Candidate

CCM = Candidate Committee

COM = Committee

IND = Individual (a person)

ORG = Organization (not a committee and not a person)

PAC = Political Action Committee

PTY = Party Organization

name Contributor/lender/Transfer Name

city City

state State

zip_code ZIP Code

employer Employer

occupation Occupation

transaction_dt Transaction date (YYYY-MM-DD)

transaction_amt Transaction Amount

other_id For contributions from individuals this column is null. For contributions from candidates or other committees this column will contain that contributor's FEC ID

tran_id Only for Electronic Filings. A unique identifier associated with each itemization or transaction appearing in an FEC electronic file. A transaction ID is unique for a specific committee for a specific report.

Source

<https://www.fec.gov/campaign-finance-data/any-transaction-one-committee-another-file-description/>, updated 2020-03-02

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