Package 'fec16'

November 15, 2020

Title Data Package for the 2016 United States Federal Elections

Version 0.1.3

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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

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

Encoding UTF-8

LazyData true

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

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

RoxygenNote 7.1.1

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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R topics documented:

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campaigns	*House/Senate Current Campaigns*

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

ttl_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

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candidates	*Candidates Master metadata*

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

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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-descri

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

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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

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expenditures *Operating Expenditures*

Description

Operating expenditure information for a simple random sample of 1000 entries

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

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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.

Authors

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- Ben Baumer: https://github.com/beanumber

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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

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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-descr>

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

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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 interactive().

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`	*General Federal Election Results*

Description

2016 House General Election Results

2016 Senate General Election Results

2016 Presidential General Election Results

Usage

```
results_house

results_senate

results_president
```

Format

3 data frames with information about the House, Senate, and Presidential 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

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 377 rows and 10 columns.

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 619 rows and 6 columns.

Source

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

---

states   *US States lookup table*

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   *Any Transaction From One Committee To Another*

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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