# Package ‘fec16’

November 15, 2020

**Title**  Data Package for the 2016 United States Federal Elections  
**Version**  0.1.3  
**Maintainer**  Marium Tapal &lt;mariumtapal@gmail.com&gt;  
**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 &lt;https://www.fec.gov/data/browse-data/?tab=bulk-data&gt;.

**License**  CC0  
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**Suggests**  testthat (&gt;= 2.1.0), scales, knitr, rmarkdown, fs, lubridate, ggplot2, stringr, usethis, utf8  
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**Author**  Marium Tapal [aut, cre] (&lt;https://orcid.org/0000-0001-5093-6462&gt;), Rana Gahwagy [aut], Irene Ryan [aut], Benjamin S. Baumer [aut] (&lt;https://orcid.org/0000-0002-3279-0516&gt;)  
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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
candidates

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)
divid_refunds  Refunds to individuals
cmte_refunds  Refunds to committees

Source

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
committees

committees

committees

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

Source

contributions

**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/](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/](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**

---

**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

## Description

Operating expenditure information for a simple random sample of 1000 entries

## Usage

expenditures

## Format

A data frame with 1000 rows and 20 columns:

<table>
<thead>
<tr>
<th>cmte_id</th>
<th>A 9-character alpha-numeric code assigned to a committee by the Federal Election Commission</th>
</tr>
</thead>
<tbody>
<tr>
<td>amndt_ind</td>
<td>Amendment indicator: Indicates if the report being filed is new (N), an amendment (A) to a previous report or a termination (T) report</td>
</tr>
<tr>
<td>rpt_yr</td>
<td>Report year</td>
</tr>
<tr>
<td>rpt_tp</td>
<td>Indicates the type of report filed, listed here: <a href="https://www.fec.gov/campaign-finance-data/report-type-code-descriptions/">https://www.fec.gov/campaign-finance-data/report-type-code-descriptions/</a></td>
</tr>
<tr>
<td>line_num</td>
<td>Indicates FEC form line number</td>
</tr>
<tr>
<td>form_tp_cd</td>
<td>Indicates FEC form type</td>
</tr>
<tr>
<td>sched_tp_cd</td>
<td>Schedule type: Schedule B - Itemized disbursements</td>
</tr>
<tr>
<td>name</td>
<td>Contributor/lender/Transfer Name</td>
</tr>
<tr>
<td>city</td>
<td>City</td>
</tr>
<tr>
<td>state</td>
<td>State</td>
</tr>
<tr>
<td>zip_code</td>
<td>ZIP Code</td>
</tr>
<tr>
<td>transaction_dt</td>
<td>Transaction date (YYYY-MM-DD)</td>
</tr>
<tr>
<td>transaction_amt</td>
<td>Transaction Amount</td>
</tr>
<tr>
<td>transaction_pgi</td>
<td>Primary general indicator</td>
</tr>
<tr>
<td>purpose</td>
<td>Purpose</td>
</tr>
<tr>
<td>category</td>
<td>Disbursement category code: 001-012 and 101-107</td>
</tr>
<tr>
<td>category_desc</td>
<td>Disbursement Category Code Description, listed here: <a href="https://www.fec.gov/campaign-finance-data/disbursement-category-code-descriptions/">https://www.fec.gov/campaign-finance-data/disbursement-category-code-descriptions/</a></td>
</tr>
<tr>
<td>entity_tp</td>
<td>Entity Type:</td>
</tr>
<tr>
<td>CAN = Candidate</td>
<td></td>
</tr>
<tr>
<td>CCM = Candidate Committee</td>
<td></td>
</tr>
<tr>
<td>COM = Committee</td>
<td></td>
</tr>
<tr>
<td>IND = Individual (a person)</td>
<td></td>
</tr>
<tr>
<td>ORG = Organization (not a committee and not a person)</td>
<td></td>
</tr>
<tr>
<td>PAC = Political Action Committee</td>
<td></td>
</tr>
<tr>
<td>PTY = Party Organization</td>
<td></td>
</tr>
</tbody>
</table>
**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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**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

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.
individuals

Authors

• Marium Tapal: https://github.com/mariumtapal
• Irene Ryan: https://github.com/ireneryan
• Rana Gahwagy: https://github.com/ranawg
• Ben Baumer: https://github.com/beanumber

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  

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-descriptions/
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  

transf_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

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**

```r
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()`.
read_all_individuals

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

**Examples**

```r
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**

```r
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**

```r
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**

```r
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
states

**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**


---

<table>
<thead>
<tr>
<th>states</th>
<th>US States lookup table</th>
</tr>
</thead>
</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`
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
**transactions**

**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**

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