

# Package ‘fec16’

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**Title** Data Package for the 2016 United States Federal Elections

**Version** 0.1.4

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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>>.

**License** CC0

**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>

**RoxygenNote** 7.2.3

**VignetteBuilder** knitr

**NeedsCompilation** no

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## Contents

campaigns . . . . .	2
candidates . . . . .	3
committees . . . . .	4
contributions . . . . .	5
expenditures . . . . .	7
fec16 . . . . .	8
individuals . . . . .	9
pac . . . . .	10
read_all_contributions . . . . .	12
read_all_expenditures . . . . .	12
read_all_individuals . . . . .	13
read_all_transactions . . . . .	13
results_house . . . . .	14
results_president . . . . .	15
results_senate . . . . .	16
states . . . . .	17
transactions . . . . .	17
<b>Index</b>	<b>19</b>

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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

**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	<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

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committees

*Committees metadata*

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### 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-description/>

**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*

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## 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	<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

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fec16

*fec16: A Data Package for the 2016 Elections*

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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](#)
- 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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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	<i>Political Action Committee (PAC) and Party Summary Financial Information</i>
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---

### 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**

<code>n_max</code>	Integer specifying the max amount of entries in the dataset. Defaults to the possible maximum.
<code>verbose</code>	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**

<code>n_max</code>	Integer specifying the max amount of entries in the dataset. Defaults to the possible maximum.
<code>verbose</code>	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 `?transactions`.

**Examples**

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

---

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

**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](#)

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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](#)

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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](#)



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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

# Index

## \* datasets

- campaigns, [2](#)
- candidates, [3](#)
- committees, [4](#)
- contributions, [5](#)
- expenditures, [7](#)
- individuals, [9](#)
- pac, [10](#)
- results\_house, [14](#)
- results\_president, [15](#)
- results\_senate, [16](#)
- states, [17](#)
- transactions, [17](#)

campaigns, [2](#), [8](#)  
candidates, [3](#), [8](#)  
committees, [4](#), [8](#)  
contributions, [5](#), [8](#)

expenditures, [7](#), [8](#)

fec16, [8](#)

individuals, [8](#), [9](#)

pac, [8](#), [10](#)

read\_all\_contributions, [8](#), [12](#)  
read\_all\_expenditures, [8](#), [12](#)  
read\_all\_individuals, [8](#), [13](#)  
read\_all\_transactions, [8](#), [13](#)  
results\_house, [8](#), [14](#), [15](#), [16](#)  
results\_president, [8](#), [15](#), [15](#), [16](#)  
results\_senate, [8](#), [15](#), [16](#)

state, [17](#)  
states, [8](#), [17](#)

transactions, [8](#), [17](#)