

# Package ‘anominate’

May 7, 2026

**Type** Package

**Title** Alpha-NOMINATE Ideal Point Estimator

**Version** 0.7

**Date** 2024-11-21

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**Description** Provides functions to estimate and interpret the alpha-NOMINATE ideal point model developed in Carroll et al. (2013, <doi:10.1111/ajps.12029>). alpha-NOMINATE extends traditional spatial voting frameworks by allowing for a mixture of Gaussian and quadratic utility functions, providing flexibility in modeling political actors' preferences. The package uses Markov Chain Monte Carlo (MCMC) methods for parameter estimation, supporting robust inference about individuals' ideological positions and the shape of their utility functions. It also contains functions to simulate data from the model and to calculate the probability of a vote passing given the ideal points of the legislators/voters and the estimated location of the choice alternatives.

**License** GPL-2

**Depends** stats, coda, wnominate, pscl, MCMCpack

**URL** <https://CRAN.R-project.org/package=anominate>

**NeedsCompilation** yes

**Repository** CRAN

**Date/Publication** 2024-11-22 09:20:02 UTC

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anominate	<i>alpha-NOMINATE: Ideal Point Estimator</i>
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## Description

anominate is the function that takes a rollcall object and fits the Bayesian (MCMC-based) alpha-NOMINATE model described in Carroll et al. (2013). The method estimates the structure of political actors' utility functions from roll call data with the inclusion of a separate parameter denoted as alpha. alpha values of 1 indicate normal (Gaussian) utility, while alpha values of 0 indicate quadratic utility.

## Usage

```
anominate(rcObject, dims=1, nsamp=1000, thin=1, burnin=500, minvotes=20,
lop=0.025, polarity=1, random.starts=TRUE, verbose=FALSE, constrain=FALSE)
```

## Arguments

rcObject	An object of class rollcall, from Simon Jackman's pscl package.
dims	integer, number of dimensions to estimate. Must be nonnegative and cannot exceed 10 dimensions.
nsamp	integer, total number of iterations for the sampler. nsamp divided by thin must be larger than burnin.
thin	integer, thinning interval for the MCMC samples.
burnin	integer, number of iterations to be discarded.
minvotes	integer, minimum number of votes required for a legislator to be included in the analysis.
lop	A proportion between 0 and 1, the cut-off used for excluding lopsided votes, expressed as the proportion of non-missing votes on the minority side. The default, lop=0.025, eliminates votes where the minority is smaller than 2.5 overwrites the lopsided attribute in the rollcall object inputted.

polarity	a vector specifying the legislator in the data set who is conservative on each dimension. For example, <code>c(3,5)</code> indicates legislator 3 is conservative on dimension 1, and legislator 5 is conservative on dimension 2. Alternatively, polarity can be specified as a string for legislator names found in <code>legis.names</code> (i.e., <code>c("Bush", "Gore")</code> ) if every legislative name in the data set is unique. Finally, polarity can be specified as a list (i.e., <code>list("cd", c(4,5))</code> ) where the first list item is a variable from the roll call object's <code>legis.data</code> , and the second list item is a conservative legislator on each dimension as specified by the first list item. <code>list("cd", c(4,5))</code> thus specifies the legislators with congressional district numbers of 4 and 5.
random.starts	logical, indicating whether initial values for the legislator and bill parameters should be randomly drawn from a uniform distribution. If <code>FALSE</code> , the W-NOMINATE estimates are used as the initial values.
verbose	logical, indicates whether the progress of W-NOMINATE and alpha-NOMINATE (at each 100th iteration of the MCMC sampler) should be printed to the screen.
constrain	logical, indicates whether alpha should be constrained to equal 1 rather than estimated. This option should be used if more than one dimension is being estimated, which makes the method equivalent to a Bayesian implementation of Poole and Rosenthal's (1997) NOMINATE model.

### Value

An object of class `anominate`, which in this documentation is also referred to as an alpha-NOMINATE object.

alpha	An object of class <code>mcmc</code> with the sampled values of the alpha parameter.
beta	An object of class <code>mcmc</code> with the sampled values of the beta parameter.
legislators	A object of class <code>mcmc</code> with the sampled values of the legislator ideal points, with each dimension stored in a separate list (e.g., the first dimension coordinates are stored in <code>legislators[[1]]</code> , the second dimension coordinates in <code>legislators[[2]]</code> , etc.).
yea.locations	A object of class <code>mcmc</code> with the sampled values of the Yea locations (midpoint - spread in W-NOMINATE) for each vote, with each dimension stored in a separate list (e.g., the first dimension coordinates are stored in <code>yea.locations[[1]]</code> , the second dimension coordinates in <code>yea.locations[[2]]</code> , etc.).
nay.locations	A object of class <code>mcmc</code> with the sampled values of the Nay locations (midpoint + spread in W-NOMINATE) for each vote, with each dimension stored in a separate list (e.g., the first dimension coordinates are stored in <code>nay.locations[[1]]</code> , the second dimension coordinates in <code>nay.locations[[2]]</code> , etc.).
wnom.result	An object of class <code>nomObject</code> with the W-NOMINATE ( <code>wnominate</code> ) results.

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## References

Royce Carroll, Jeffrey B. Lewis, James Lo, Keith T. Poole and Howard Rosenthal. 2013. “The Structure of Utility in Spatial Models of Voting.” *American Journal of Political Science* 57(4): 1008-1028.

Jeffrey B. Lewis. <https://voteview.com/>

Keith Poole and Howard Rosenthal. 1997. *Congress: A Political-Economic History of Roll Call Voting*. New York: Oxford University Press.

## See Also

'summary.anominate', 'plot.anominate', 'densplot.anominate', 'traceplot.anominate', 'simulateData', 'sen111', 'sen111\_anom', 'rollcall'.

## Examples

```
data(sen111)

sen111_anom <- anominate(sen111, dims=1, polarity=2,
  nsamp=200, thin=1, burnin=100, random.starts=FALSE,
  verbose=FALSE, constrain=FALSE)

# 'sen111_anom' can be retrieved quickly with:
data(sen111_anom)

# Summary statistics:
summary(sen111_anom)
# Graphical summaries:
plot(sen111_anom)
densplot.anominate(sen111_anom)
traceplot.anominate(sen111_anom)
```

---

densplot.anominate      *alpha-NOMINATE Density Plot*

---

## Description

densplot.anominate reads an anominate object and plots the density of sampled values of the alpha parameter using the densplot function in coda.

## Usage

```
## S3 method for class 'anominate'
densplot(x, ...)
```

**Arguments**

x                    An anominate output object.  
 ...                 Other arguments to densplot.

**Value**

A density plot of sampled values of alpha.

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**See Also**

'anominate', 'summary.anominate', 'plot.anominate', 'traceplot.anominate', 'sen111', 'sen111\_anom'.

**Examples**

```
data(sen111)

sen111_anom <- anominate(sen111, dims=1, polarity=2,
  nsamp=200, thin=1, burnin=100, random.starts=FALSE,
  verbose=FALSE, constrain=FALSE)

# 'sen111_anom' can be retrieved quickly with:
data(sen111_anom)

summary(sen111_anom)
densplot.anominate(sen111_anom)
```

---

norm\_anom

*alpha-NOMINATE Result for Simulated Roll Call Matrix using Normal Utility*

---

**Description**

An object of class `anominate` that contains the estimated `alpha-NOMINATE` result for data simulated using normal (Gaussian) utility. Although it can easily be obtained from calling the example in `simulateData`, it is included here to facilitate illustration of the examples for the plot and summary functions.

**Usage**

```
data(norm_anom)
```

**Value**

An object of class `anominate`, which in this documentation is also referred to as an alpha-NOMINATE object.

<code>alpha</code>	An object of class <code>mcmc</code> with the sampled values of the alpha parameter.
<code>beta</code>	An object of class <code>mcmc</code> with the sampled values of the beta parameter.
<code>legislators</code>	A object of class <code>mcmc</code> with the sampled values of the legislator ideal points, with each dimension stored in a separate list (e.g., the first dimension coordinates are stored in <code>legislators[[1]]</code> , the second dimension coordinates in <code>legislators[[2]]</code> , etc.).
<code>yea.locations</code>	A object of class <code>mcmc</code> with the sampled values of the Yea locations (midpoint - spread in W-NOMINATE) for each vote, with each dimension stored in a separate list (e.g., the first dimension coordinates are stored in <code>yea.locations[[1]]</code> , the second dimension coordinates in <code>yea.locations[[2]]</code> , etc.).
<code>nay.locations</code>	A object of class <code>mcmc</code> with the sampled values of the Nay locations (midpoint + spread in W-NOMINATE) for each vote, with each dimension stored in a separate list (e.g., the first dimension coordinates are stored in <code>nay.locations[[1]]</code> , the second dimension coordinates in <code>nay.locations[[2]]</code> , etc.).
<code>wnom.result</code>	An object of class <code>nomObject</code> with the W-NOMINATE ( <code>wnominate</code> ) results.

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**See Also**

['anominate'](#), ['simulateData'](#), ['quad\\_anom'](#).

**Examples**

```
normal.data <- simulateData(utility="normal")
norm_anom <- anominate(normal.data, dims=1, polarity=1,
  nsamp=200, thin=1, burnin=100, random.starts=FALSE,
  verbose=FALSE, constrain=FALSE)

# 'norm_anom' can be retrieved quickly with:
data(norm_anom)
```

```
summary(norm_anom)
plot(norm_anom)
```

---

plot.anominate	<i>alpha-NOMINATE Coordinate Plot</i>
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---

### Description

plot.anominate reads an anominate object and plots the estimated ideal points.

### Usage

```
## S3 method for class 'anominate'
plot(x, ...)
```

### Arguments

x	An anominate output object.
...	Other arguments do nothing and are not passed to any functions.

### Value

A coordinate plot of estimated ideal points (with 95% credible interval bars) of an anominate object.

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### See Also

['anominate'](#), ['summary.anominate'](#), ['densplot.anominate'](#), ['traceplot.anominate'](#), ['sen111'](#), ['sen111\\_anom'](#).

**Examples**

```

data(sen111)

sen111_anom <- anominate(sen111, dims=1, polarity=2,
  nsamp=200, thin=1, burnin=100, random.starts=FALSE,
  verbose=FALSE, constrain=FALSE)

# 'sen111_anom' can be retrieved quickly with:
data(sen111_anom)

plot(sen111_anom)

```

---

quad_anom	<i>alpha-NOMINATE Result for Simulated Roll Call Matrix using Quadratic Utility</i>
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---

**Description**

An object of class `anominate` that contains the estimated alpha-NOMINATE result for data simulated using quadratic utility. Although it can easily be obtained from calling the example in `simulateData`, it is included here to facilitate illustration of the examples for the plot and summary functions.

**Usage**

```
data(quad_anom)
```

**Value**

An object of class `anominate`, which in this documentation is also referred to as an alpha-NOMINATE object.

alpha	An object of class <code>mcmc</code> with the sampled values of the alpha parameter.
beta	An object of class <code>mcmc</code> with the sampled values of the beta parameter.
legislators	A object of class <code>mcmc</code> with the sampled values of the legislator ideal points, with each dimension stored in a separate list (e.g., the first dimension coordinates are stored in <code>legislators[[1]]</code> , the second dimension coordinates in <code>legislators[[2]]</code> , etc.).
yea.locations	A object of class <code>mcmc</code> with the sampled values of the Yea locations (midpoint - spread in W-NOMINATE) for each vote, with each dimension stored in a separate list (e.g., the first dimension coordinates are stored in <code>yea.locations[[1]]</code> , the second dimension coordinates in <code>yea.locations[[2]]</code> , etc.).
nay.locations	A object of class <code>mcmc</code> with the sampled values of the Nay locations (midpoint + spread in W-NOMINATE) for each vote, with each dimension stored in a separate list (e.g., the first dimension coordinates are stored in <code>nay.locations[[1]]</code> , the second dimension coordinates in <code>nay.locations[[2]]</code> , etc.).
wnom.result	An object of class <code>nomObject</code> with the W-NOMINATE ( <code>wnominate</code> ) results.

**Author(s)**

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**See Also**

'[anominate](#)', '[simulateData](#)', '[norm\\_anom](#)'.

**Examples**

```
quadrartic.data <- simulateData(utility="quadratic")
quad_anom <- anominate(quadrartic.data, dims=1, polarity=1,
  nsamp=200, thin=1, burnin=100, random.starts=FALSE,
  verbose=FALSE, constrain=FALSE)

# 'quad_anom' can be retrieved quickly with:
data(quad_anom)

summary(quad_anom)
plot(quad_anom)
```

---

 sen111

---

*111th U.S. Senate Roll Call Vote Matrix*


---

**Description**

This dataframe contains a matrix of votes cast by U.S. Senators in the 111th Congress. The data are formatted consistent with the `rollcall` object format in Simon Jackman's `pscl` package.

**Usage**

```
data(sen111)
```

**Value**

The dataframe contains roll call data for all Senators in the 111th Senate. The data is formatted as a `rollcall` object with the following elements.

votes	data frame, containing all data from the old <code>nom31.dat</code> file about legislators. For a typical W-NOMINATE object run with an ORD file read using <code>readKH</code> , it will contain the following: state State name of legislator.
-------	---

	icpsrState	ICPSR state code of legislator.
	cd	Congressional District number.
	icpsrLegis	ICPSR code of legislator.
	party	Party of legislator.
	partyCode	ICPSR party code of legislator.
codes		list of four vectors. yea shows the codes in votes that are yea votes, 'nay' shows nay codes, notInLegis shows absences, and missing shows the missing codes.
n		numeric, number of legislators
m		numeric, number of roll calls
legis.data		data frame, containing the following information on legislators: state State name of legislator. icpsrState ICPSR state code of legislator. cd Congressional District number. icpsrLegis ICPSR code of legislator. party Party of legislator. partyCode ICPSR party code of legislator.
vote.data		null, would otherwise be a data frame containing data on the votes.
desc		null, would otherwise be a string describing the data set.
source		string, describing where data set was read from.

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**Source**

Keith Poole. 2014. *111th Senate Roll Call Vote Data*. <https://www.voteview.com/>.

**See Also**

'[anominate](#)'.

**Examples**

```
data(sen111)
summary(sen111)
```

```
sen111_anom <- anominate(sen111, dims=1, polarity=2,
```

```

nsamp=200, thin=1, burnin=100, random.starts=FALSE,
verbose=FALSE, constrain=FALSE)

# 'sen111_anom' can be retrieved quickly with:
data(sen111_anom)

summary(sen111_anom)
plot(sen111_anom)

```

---

sen111\_anom

*alpha-NOMINATE Result for 111th U.S. Senate Roll Call Vote Matrix*


---

## Description

An object of class `anominate` that contains the estimated alpha-NOMINATE result for the 111th U.S Senate (in one dimensions). Although it can easily be obtained from calling the example in `anominate`, it is included here to facilitate illustration of the examples for the `plot` and `summary` functions.

## Usage

```
data(sen111_anom)
```

## Value

An object of class `anominate`, which in this documentation is also referred to as an alpha-NOMINATE object.

<code>alpha</code>	An object of class <code>mcmc</code> with the sampled values of the alpha parameter.
<code>beta</code>	An object of class <code>mcmc</code> with the sampled values of the beta parameter.
<code>legislators</code>	A object of class <code>mcmc</code> with the sampled values of the legislator ideal points, with each dimension stored in a separate list (e.g., the first dimension coordinates are stored in <code>legislators[[1]]</code> , the second dimension coordinates in <code>legislators[[2]]</code> , etc.).
<code>yea.locations</code>	A object of class <code>mcmc</code> with the sampled values of the Yea locations (midpoint - spread in W-NOMINATE) for each vote, with each dimension stored in a separate list (e.g., the first dimension coordinates are stored in <code>yea.locations[[1]]</code> , the second dimension coordinates in <code>yea.locations[[2]]</code> , etc.).
<code>nay.locations</code>	A object of class <code>mcmc</code> with the sampled values of the Nay locations (midpoint + spread in W-NOMINATE) for each vote, with each dimension stored in a separate list (e.g., the first dimension coordinates are stored in <code>nay.locations[[1]]</code> , the second dimension coordinates in <code>nay.locations[[2]]</code> , etc.).
<code>wnom.result</code>	An object of class <code>nomObject</code> with the W-NOMINATE ( <code>wnominate</code> ) results.

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**See Also**

['anominate'](#).

**Examples**

```
data(sen111)

sen111_anom <- anominate(sen111, dims=1, polarity=2,
  nsamp=200, thin=1, burnin=100, random.starts=FALSE,
  verbose=FALSE, constrain=FALSE)

# 'sen111_anom' can be retrieved quickly with:
data(sen111_anom)

summary(sen111_anom)
plot(sen111_anom)
```

---

simulateData

*Simulated Roll Call Vote Matrices Generated with Normal (Gaussian)  
or Quadratic Utility for alpha-NOMINATE*

---

**Description**

simulateData generates a matrix of roll call votes based on the assumption that legislators possess either normal (Gaussian) or quadratic utility functions. The roll call votes can then be analyzed using the alpha-NOMINATE ideal point model. The estimated value of the alpha parameter can then be compared to the known true value (1 for normal (Gaussian) utility, 0 for quadratic utility).

**Usage**

```
simulateData(nvotes=500, nlegis=101, seed=123345, utility="normal")
```

**Arguments**

nvotes	integer, number of roll call votes ('m').
nlegis	integer, number of legislators ('n').
seed	a single value, interpreted as an integer, used to set the seed. If seed is NULL, current seed is used.
utility	String set to either "normal" or "quadratic", specifying the utility function used to generate the roll call data.

**Value**

An object of class rollcall

votes	n x m roll call vote matrix in 0/1/NA format.
codes	a list with named components yea, nay, notInLegis and missing, each component a numeric vector (possibly of length 1 and possibly NA), indicating how entries in the votes component of the rollcall object should be considered. This list simply gathers up the values in the yea, nay, notInLegis and missing arguments passed to the function.
n	integer, number of legislators.
m	integer, number of roll call votes.
legis.data	matrix, user-supplied data on legislators, containing data from an ORD file. Legislator names are rownames to this matrix.
vote.data	user-supplied data on roll call votes, set to NULL.
desc	user-supplied description, set to NULL.
source	user-supplied source information, set to NULL.

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**See Also**

'anominate', 'summary.anominate', 'plot.anominate', 'densplot.anominate', 'traceplot.anominate', 'norm\_anom', 'quad\_anom', 'rollcall'.

## Examples

```
quadratic.data <- simulateData(utility="quadratic")
quad_anom <- anominate(quadratic.data, dims=1, polarity=1,
  nsamp=200, thin=1, burnin=100, random.starts=FALSE,
  verbose=FALSE, constrain=FALSE)

# 'quad_anom' can be retrieved quickly with:
data(quad_anom)

summary(quad_anom)
plot(quad_anom)

normal.data <- simulateData(utility="normal")
norm_anom <- anominate(normal.data, dims=1, polarity=1,
  nsamp=200, thin=1, burnin=100, random.starts=FALSE,
  verbose=FALSE, constrain=FALSE)

# 'norm_anom' can be retrieved quickly with:
data(norm_anom)

summary(norm_anom)
plot(norm_anom)
```

---

summary.anominate      *alpha-NOMINATE Summary*

---

## Description

summary.anominate reads an anominate object and prints a summary.

## Usage

```
## S3 method for class 'anominate'
summary(object, ...)
```

## Arguments

object            An anominate output object.  
...                Other arguments do nothing and are not passed to any functions.

## Value

A summary of an anominate object. Reports the number of legislators, votes, dimensions, and descriptive statistics for alpha.

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**See Also**

['anominate'](#), ['plot.anominate'](#), ['densplot.anominate'](#), ['traceplot.anominate'](#).

**Examples**

```
data(sen111)

sen111_anom <- anominate(sen111, dims=1, polarity=2,
  nsamp=200, thin=1, burnin=100, random.starts=FALSE,
  verbose=FALSE, constrain=FALSE)

# 'sen111_anom' can be retrieved quickly with:
data(sen111_anom)

summary(sen111_anom)
```

---

traceplot.anominate    *alpha-NOMINATE Trace Plot*

---

**Description**

traceplot.anominate reads an object and plots the density of sampled values of the alpha parameter using the traceplot function in coda.

**Usage**

```
## S3 method for class 'anominate'
traceplot(x, ...)
```

**Arguments**

x                    An anominate output object.  
...                   Other arguments to traceplot.

**Value**

A trace plot of sampled values of alpha.

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**See Also**

['anominate'](#), ['summary.anominate'](#), ['plot.anominate'](#), ['densplot.anominate'](#), ['sen111'](#), ['sen111\\_anom'](#).

**Examples**

```
data(sen111)

sen111_anom <- anominate(sen111, dims=1, polarity=2,
  nsamp=200, thin=1, burnin=100, random.starts=FALSE,
  verbose=FALSE, constrain=FALSE)

# 'sen111_anom' can be retrieved quickly with:
data(sen111_anom)

summary(sen111_anom)
traceplot.anominate(sen111_anom)
```

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