

# Package ‘CAGR’

January 20, 2025

**Type** Package

**Title** Compound Annual Growth Rate

**Version** 1.1.0

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**Description** A time series usually does not have a uniform growth rate. Compound Annual Growth Rate measures the average annual growth over a given period. More details can be found in Bardhan et al. (2022) <[DOI:10.18805/ag.D-5418](https://doi.org/10.18805/ag.D-5418)>.

**License** GPL-3

**Encoding** UTF-8

**RoxygenNote** 7.3.1

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2024-03-02 10:42:40 UTC

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CAGR *Compute CAGR(Compound Annual Growth Rate)*

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### Description

Compute CAGR(Compound Annual Growth Rate)

### Usage

```
CAGR(data.1, data.n, n)
```

### Arguments

data.1	data of the first year
data.n	data of the last year
n	number of years

### Value

CAGR and between years values

### References

Bardhan, D., Singh, S.R.K., Raut, A.A.and Athare, T.R. (2022). Livestock in Madhya Pradesh and Chhattisgarh: An Analysis for Some Policy Implications. Agricultural Science Digest. DOI:10.18805/ag.D-5418.

### Examples

```
c.cagr<-CAGR(100, 189, 5)
```

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data.first *Computing First Year data*

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### Description

Computing first year data

### Usage

```
data.first(data.n, r, n)
```

### Arguments

data.n	data of the last year
r	CAGR
n	number of years

**Value**

First year data and between years values

**References**

Bardhan, D., Singh, S.R.K., Raut, A.A.and Athare, T.R. (2022). Livestock in Madhya Pradesh and Chhattisgarh: An Analysis for Some Policy Implications. Agricultural Science Digest. DOI:10.18805/ag.D-5418.

**Examples**

```
d.first<-data.first(189, 13.57751, 5)
```

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data.last	<i>Computing Last Year data</i>
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**Description**

Computing last year data

**Usage**

```
data.last(data.1, r, n)
```

**Arguments**

data.1	data of the first year
r	CAGR
n	number of years

**Value**

Last year data and between years values

**References**

Bardhan, D., Singh, S.R.K., Raut, A.A.and Athare, T.R. (2022). Livestock in Madhya Pradesh and Chhattisgarh: An Analysis for Some Policy Implications. Agricultural Science Digest. DOI:10.18805/ag.D-5418.

**Examples**

```
d.last<-data.last(100, 13.57751, 5)
```

---

n.years

*Computing Number of Years*

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**Description**

Computing number of years

**Usage**

```
n.years(data.1, data.n, r)
```

**Arguments**

data.1	data of the first year
data.n	data of the last year
r	CAGR

**Value**

Number of years and between years values

**References**

Bardhan, D., Singh, S.R.K., Raut, A.A.and Athare, T.R. (2022). Livestock in Madhya Pradesh and Chhattisgarh: An Analysis for Some Policy Implications. Agricultural Science Digest. DOI:10.18805/ag.D-5418.

**Examples**

```
n.yrs<-n.years(100, 189, 13.57751)
```

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