

# Package ‘CompGR’

March 12, 2024

**Type** Package

**Title** Complete Annual Growth Rate Generator

**Version** 0.1.3

**Maintainer** Ashis Ranjan Udgata <ashisu93@gmail.com>

**Depends** R(>= 2.10)

**Suggests** testthat (>= 3.0.0)

## Description

It is designed to streamline the process of calculating complete annual growth rates with user-friendly functions and robust algorithms. It enables researchers and analysts to effortlessly generate precise growth rate estimates for their data. For method details see, Sharma, M.K.(2013) <<https://www.indianjournals.com/ijor.aspx?target=ijor:jfl&volume=26&issue=1and2&article=018>>. It offers a comprehensive suite of functions and customisable parameters. Equipped to handle varying complexities in data structures. It empowers users to uncover insightful growth dynamics and make informed decisions.

**License** GPL (>= 2.0)

**Encoding** UTF-8

**RoxygenNote** 7.3.1

**Imports** stats

**NeedsCompilation** no

**Author** Ashis Ranjan Udgata [aut, cre],  
Devraj [aut],  
Rekha Rani [aut],  
Uma Sah [aut]

**Repository** CRAN

**Date/Publication** 2024-03-12 20:20:02 UTC

## R topics documented:

cAgr . . . . .	2
<b>Index</b>	<b>3</b>

---

`cAgr`*CompGR: Complete Annual Growth Rate Generator*

---

**Description**

CompGR: Complete Annual Growth Rate Generator

**Usage**

```
cAgr(time, obs, model = NULL)
```

**Arguments**

<code>time</code>	A numeric vector containing sequence of time points
<code>obs</code>	A numeric vector containing sequence of observations
<code>model</code>	Three models. User can may select one of the three methods including Linear, Logarithmic and Compound growth

**Value**

CAGR

**References**

1. Sharma, M. K., Sisodia, B. V. S., & Lal, K. (2013). Growth and trends of pulse production in India. *Journal of Food Legumes*, 26(1and2), 86-92.

**Examples**

```
time<-c(1,2,3,4,5,6,7)
obs<-c(14,18,19,15,14,17,16)
CAGR_out<-cAgr(time=time,obs=obs,model="lin")
```

# Index

cAgr, 2