



What is a Composed Function?

A **composed function** is when the **output of one function becomes the input of another** — like $f(g(x))$



Super Simple Example

Task:

You want to take a number → double it → then square it.

Step 1: Define simple functions

```
def double(x):  
    return x * 2
```

```
def square(x):  
    return x ** 2
```

Step 2: Compose them manually

```
def composed(x):  
    return square(double(x)) # f(g(x)) → square of (x * 2)
```

Usage

```
print(composed(3)) # 36  
# double(3) = 6 → square(6) = 36
```



Summary:

Function	Output
double(3)	6
square(6)	36
composed(3)	square(double(3)) = 36

TL;DR:

Composed function = $f(g(x))$

Apply $g()$ first → pass result to $f()$

About the Author

Gowtham SB is a **Data Engineering expert, educator, and content creator** with a passion for **big data technologies, as well as cloud and Gen AI**. With years of experience in the field, he has worked extensively with **cloud platforms, distributed systems, and data pipelines**, helping professionals and aspiring engineers master the art of data engineering.

Beyond his technical expertise, Gowtham is a **renowned mentor and speaker**, sharing his insights through engaging content on **YouTube and LinkedIn**. He has built one of the **largest Tamil Data Engineering communities**, guiding thousands of learners to excel in their careers.

Through his deep industry knowledge and hands-on approach, Gowtham continues to **bridge the gap between learning and real-world implementation**, empowering individuals to build **scalable, high-performance data solutions**.

Socials

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