

Library: A library is a collection of functions that is prewritten and allows programmers to call in their own code. This is usually to prevent code from being repeated. An example would be a programmer creating a separate file dedicated to writing a set of functions to implement in their main file. Although this would usually be only a few functions, a library is not limited to the amount of functions it can contain. An example of this would be “numpy” with a large amount of functions.

<https://www.freecodecamp.org/news/the-difference-between-a-framework-and-a-library-bd133054023f/>

<https://stackoverflow.com/questions/148747/what-is-the-difference-between-a-framework-and-a-library/148852#:~:text=A%20library%20is%20a%20module,a%2Dlibrary%2F148789%23148789>

<https://www.quora.com/What-does-library-mean-in-the-case-of-programming-languages>

Framework: As mentioned in one of the sources, the difference between a library and a framework is the control the programmer has. In a library, the programmer has a lot of control. This isn't quite true for a framework. A framework is different in that it acts as a blueprint which defines what it will be used for. The programmer does not get to decide this. For example “flask” is a framework strictly used to write a web service. If a programmer were to not use a web framework and instead, program one from scratch, this would take a lot of wasted time. However, if they were to use a web framework, like “flask,” it would do the basics, like setting up a website, meaning the programmer can just ignore the basic features. By eliminating the need to do this, the programmer can then focus on building on the framework, like designing the actual web page.

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<https://www.quora.com/Programming-What-is-a-framework>