demo-manuscript

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## Section

This is a simple placeholder for the manuscript’s main document (Knuth 1984).

## Function

Let’s create a Python function to add two floating point numbers. The code will be visible in the Source: Article Notebook

Source: [Article Notebook](https://awellis.github.io/demo-manuscript/index.qmd.html)

We can use the function to compute and return the output:

Source: [Article Notebook](https://awellis.github.io/demo-manuscript/index.qmd.html)

The result is: 9

Source: [Article Notebook](https://awellis.github.io/demo-manuscript/index.qmd.html)

## Figure

Here is a figure:

Source: [Article Notebook](https://awellis.github.io/demo-manuscript/index.qmd.html)

|  |
| --- |
| Figure 1: A line plot on a polar axis |

Source: [Article Notebook](https://awellis.github.io/demo-manuscript/index.qmd.html)

## Equation

Let denote the number of eruptions in a year. Then, can be modeled by a Poisson distribution

where is the rate of eruptions per year. Using [Equation 1](#eq-poisson), the probability of an eruption in the next years can be calculated.

Source: [Article Notebook](https://awellis.github.io/demo-manuscript/index.qmd.html)

Knuth, Donald E. 1984. “Literate Programming.” *Comput. J.* 27 (2): 97–111. <https://doi.org/10.1093/comjnl/27.2.97>.