

# Beginners' Workshop

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February 2023

## 1 Introduction

Here is my first sentence in L<sup>A</sup>T<sub>E</sub>X! Here is (not) a new paragraph.

To edit text look you can use *for tiny text* and **for huge text**. Just remember to go back to normal text!

You can also use **for bold** and *or for italics*. For special text characters use è or similar depending on the character.

To add website links and other hyperlinked objects, use the [hyperref package](#).

## 2 Floats

### 2.1 Figures

You can add figures with a begin command:



Figure 1: NASA's Image of the Day for February 15th, 2023

Figure 1 shows an EVA test in Arizona.

## 2.2 Tables

You can also add tables with a `begin` command, but they also have a `tabular` environment:

A	B
C	D

Table 1: Caption

Added extra vertical and horizontal lines to Table 1.

## 2.3 Equations

Equations can be added with dollar signs bracketing the text like this  $E = mc^2$ .

You can also do a numbered equation like with figures and tables:

$$f(r, \phi) = \iint dr d\phi \tag{1}$$

Equation 1 is a demo of a double integral.

## 3 Citations

There are a few different ways to setup citations in  $\text{\LaTeX}$ , but we will not be going into all those today and just give you the basics with built-in BibTeX.

Here's the reference I found in Google Scholar [1].

## 4 Tips & Tools

- Overleaf has lots of tutorials and help, be sure to check those out! Plus [VT's Overleaf page](#) has templates and other info. Also see Overleaf's [Quick Guide](#) and [Keyboard Shortcuts](#).
- [StackExchange](#) and similar sites have lots of Q&A (I use these all the time!)
- For packages and documentation, check out [ctan.org](#) (over 6k - no way to know all and some conflict)
- Last you can check [our library](#) for  $\text{\LaTeX}$  books - there have been lots published, including ones for other types of documents like presentations (Beamer).

## References

- [1] Terry D Haws, Jacob Bartkiewicz, and Michael E Fuller. Space launch system (sls): Artemis i, evolution, and capability. In *2022 IEEE Aerospace Conference (AERO)*, pages 1–9. IEEE, 2022.