

# Sample LaTeX Document with Images and References

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## Abstract

This is a sample LaTeX document demonstrating how to include images, create figures with captions, and use references. It shows various ways to insert and position images in your document.

## 1 Introduction

This document demonstrates the basics of working with images in LaTeX. You can include images in various formats such as PNG, JPG, and PDF [2].

## 2 Including a Single Image

To include an image, use the `figure` environment. Figure 1 shows a simple example.

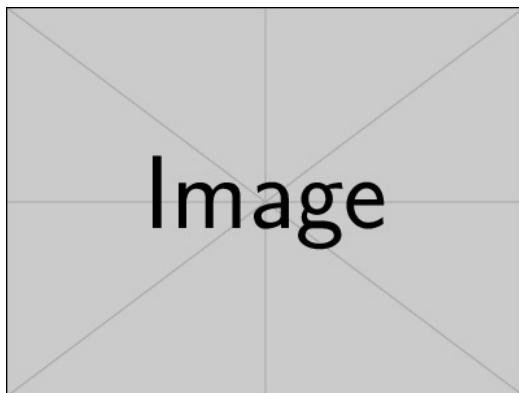


Figure 1: This is an example image with caption

As seen in Figure 1, images can be referenced throughout the text using labels.

### 3 Controlling Image Size

You can control image size in several ways:

- By width: `width=0.5\textwidth`
- By height: `height=5cm`
- By scale: `scale=0.8`

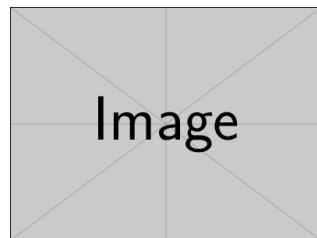
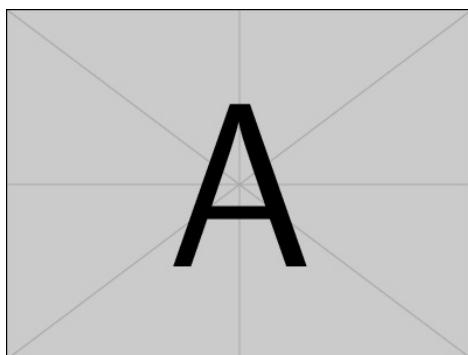


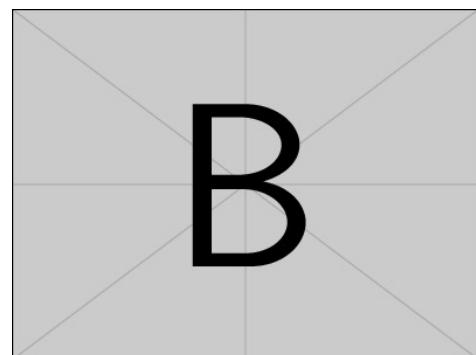
Figure 2: Smaller image (30% of text width)

### 4 Multiple Images Side by Side

You can place multiple images side by side using the `subcaption` package (see Figure 3).



(a) First image



(b) Second image

Figure 3: Two images side by side

You can reference individual subfigures: Figure 3a and Figure 3b.

## 5 Image Positioning

The [H] option forces the figure to appear exactly where you place it. Other options include:

- [h] - approximately here
- [t] - top of page
- [b] - bottom of page
- [p] - separate page
- [H] - exactly here (requires float package)

## 6 References and Citations

LaTeX makes it easy to manage citations using BibTeX [1]. You can cite multiple sources at once [1, 2].

## 7 Conclusion

This document demonstrated the basics of including images and using references in LaTeX. For more information, consult the documentation [2].

## References

- [1] Donald Ervin Knuth. *The TeXbook*, volume 3. Addison-Wesley Reading, 1984.
- [2] Leslie Lamport. *LaTeX: A Document Preparation System*, 2nd edition, 1994.