Basic Two Column Paper - LaTeX

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***Abstract*—This article serves as a template for basic two column papers. It doesn't adhere to a particular conference or anything, it is just the formatting I like to read (and write). Authors and affiliations other than the first are not real.**

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Follow this work on GitHub: TheProjectsGuy/Learning-LaTeX

***Keywords*—** LaTeX, Template, Placeholder Paper

I. Introduction

There are works on helping people read [2] and write [3, 1] papers (formally documented literature). I was just looking for the ideal LaTeX configuration I would love to write (and read) in, and I could not find one; so I made one (and you're now reading it). Feel free to use this template if you like it. Obviously, I absolve myself from all liabilities. This is not targeted for any particular conference, workshop, or anything. The ideal purpose is to serve as a multi-contributor backbone, with suggestions and everything.

Ignore all the Lorem ipsum. I try my best to use it only as a placeholder to fill up space. I do put useful things in the source of LaTeX, so keep an eye out for them.

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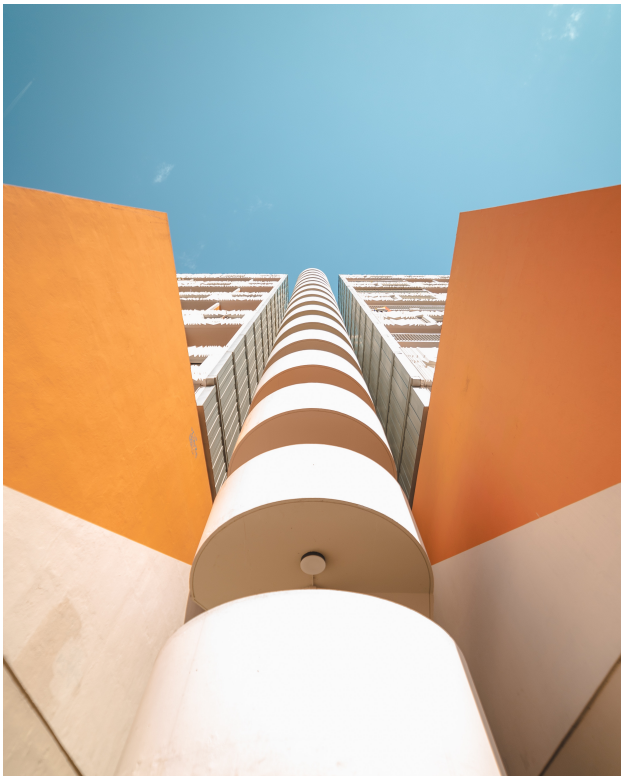

Fig. 1: A simple building figure
This figure serves as a top *teaser* figure in most papers. This particular one is Photo by Guillaume Meurice from Pexels

The *contributions* of this work are as follows

1) A useful template for myself, bringing together many concepts of LaTeX;
2) A guide to using the coop-writing package to emulate multi-author settings;
3) Emulate a workflow of an actual paper
   - A paper with most of the conventional items like images, equations, tables, etc.
   - This paper also has a teaser figure 1.
4) Just to increase the amount of work available in the world of LaTeX. Maybe to give something back to the community.

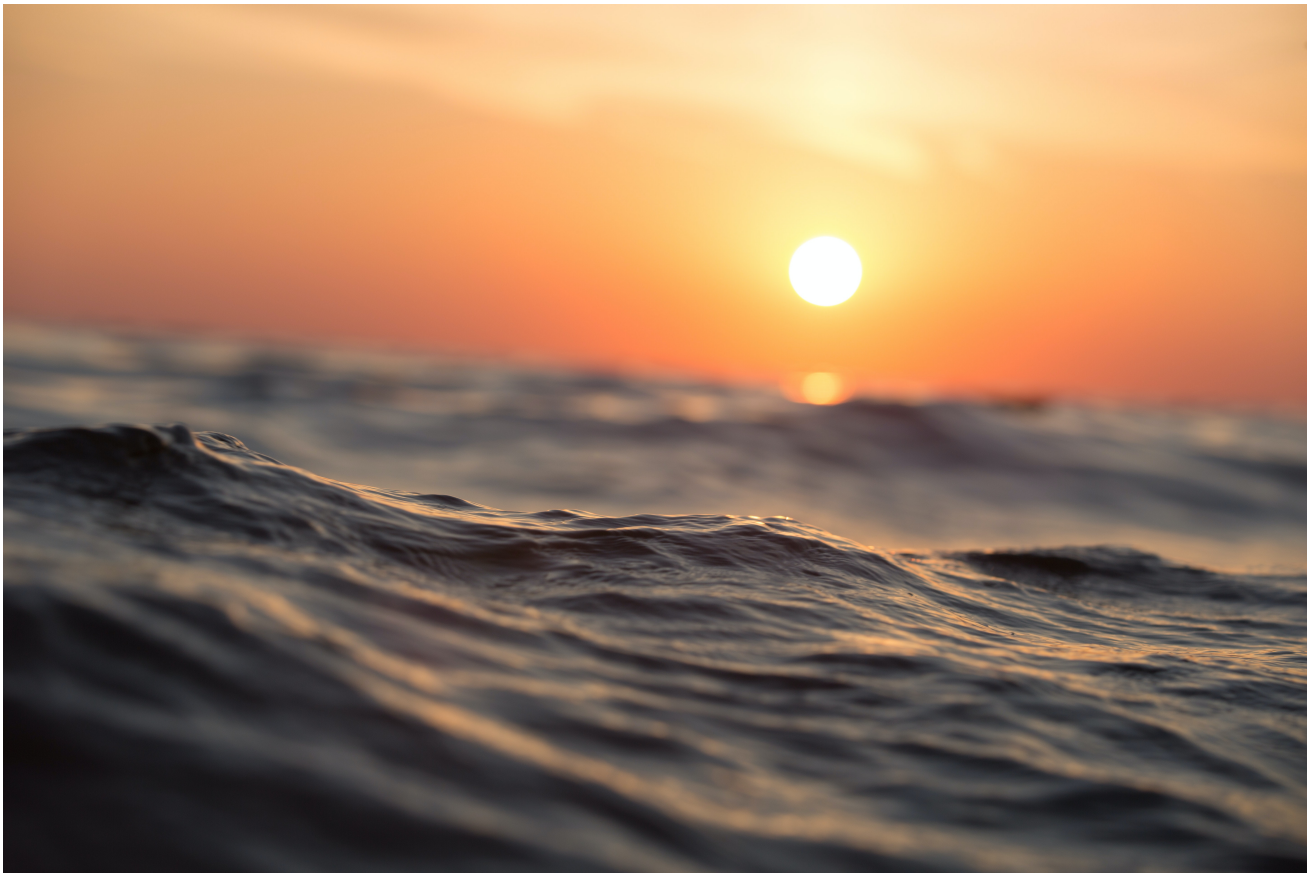

Fig. 2: A sunrise
An inspirational Photo by Sebastian Voortman from Pexels (spanning two columns, at the top of page)

A.M.:1 Regarding 'fig:sunrise'[1]

II. Related Work

This section has an overview of a technique I use to read papers (I do not want to fill this entire document with IPSUM text). It also has a subsection dedicated to what's included in this work. I am a newbie to the field of literature; please do not take anything seriously. This is just for my personal reference; great if it helps somebody else!

A. Reading Papers

I essentially have two methods. One is a *time taking deep dive* (TTDD), another is a *staged dive* (SD). If I have to read little literature but gain an in-depth understanding, I use TTDD. If I have to cover a lot of ground but in a shallow manner (like in a literature survey), I use SD.

1) TTDD — Time Taking Deep Dive: Here, I simply go through each paper (or literature item) one-by-one. Absorbing everything I read and annotating a lot in the paper. This helps me absorb the work as a whole, but I usually end up spending *one full day*. The result is usually that I (usually) understand the work from top-to-bottom and I can start results (in code). At the very least, I have a clear view of the foundations (sometimes the work requires out-of-domain knowledge which I decide on diving into).

2) SD — Staged Dive: If I have a lot of papers to read and I have to do it quick, I use this method. This is largely inspired from [2]. I give three passes to the paper.

a) Pass 1: Title, abstract, introduction, conclusion: Here, I read the title, abstract, and introduction with great care. I then quickly skim over the images, and the entire paper content (until I reach the conclusion). I then read the conclusion carefully. After this reading, I decide to continue reading the paper (to gain more information) or to discard it.

b) Pass 2: Body: If I choose to continue reading, I redo pass 1 (as in II-A2a) and then read the entire paper carefully. Bulk of the annotations come from here. If there are things that I do not understand, I simply highlight them. I also highlight important references here. After this reading, I decide to continue reading (only if I want to completely duplicate work) or to set it aside.

c) Pass 3: Full replication: After finishing II-A2a and II-A2b, if I decide to keep going further, I try and replicate the work.

B. This Document

Reading the last subsection II-A might have become too boring, so I've put a motivational figure (spanning two columns) in Figure 2. Let's explore some ~~content~~concepts[2]. A.M.:2

You know what, I'll add them as I learn more of LaTeX.

[1] A.M.:Maybe add something

[2] A.M.:New

Some things that can be added further in this document

1) Equations (single and multi-column)

III. Main Theory

IV. Experimental Results

V. Conclusion

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