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Bachelor Thesis

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Preface

TODO
in section
Preface

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1 Abstract

TODO in
section 1
Abstract

2 Summary

2.1 This is a subsection

2.1.1 This is a subsubsection

This is a paragraph

This is a subparagraph

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in the table of contents

3 Introduction

Citing a book.[2]

Citing an article.[1]

Citing an internet link.[3]

4 Background

Figure 1: This caption is above the image

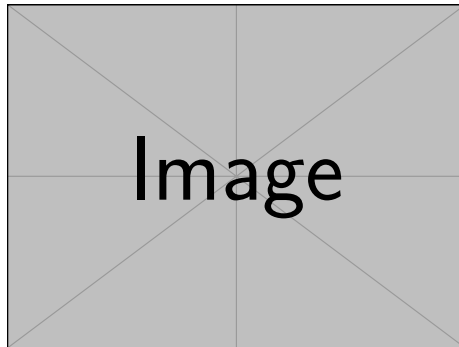
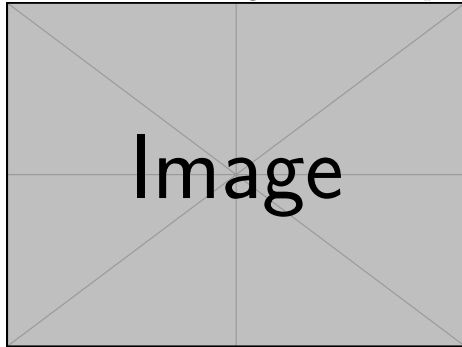


Figure 2: This caption is below the centered image

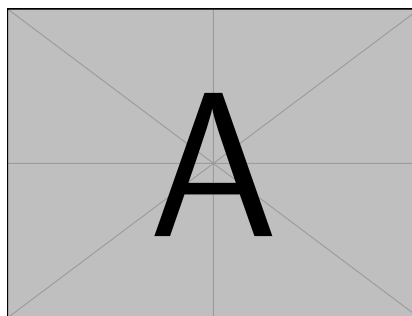
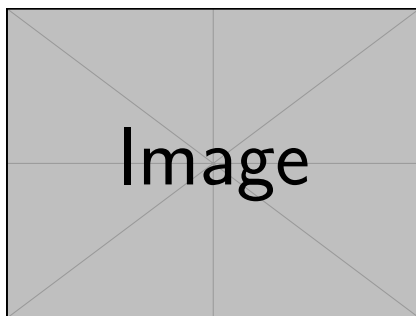


Figure 3: This shows two images next to each other

5 Methods

See figure 1 on page 6 for a figure.

See table 1 on page 9 for a table.

6 Results

bullet points

- this list has
- bullet points

custom bullet symbols

- this list has
- * custom symbols

numbered

1. this list is
2. numbered

alternatively numbered

- I this list is
- II alternatively numbered

7 Discussion

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x	x	x

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	xxxxxxx	xxxxxxx

Table 1: This is a table

8 Conclusion

```
class WeightedQuickUnion:
    def __init__(self, n):
        self.count = n
        self.id = [x for x in range(n)]
        self.size = [1 for x in range(n)]

    def find(self, p):
        while p != self.id[p]:
            p = self.id[p]
        return p

    def union(self, p, q):
        p_root = self.find(p)
        q_root = self.find(q)
        if p_root != q_root:
            if self.size[p_root] < self.size[q_root]:
                self.id[p_root] = q_root
                self.size[q_root] += self.size[p_root]
            else:
                self.id[q_root] = p_root
                self.size[p_root] += self.size[q_root]
        self.count -= 1
```

9 Perspectives

TODO in
section 9
Perspec-
tives

References

- [1] Peter Adams. The title of the work. *The name of the journal*, 4(2):201–213, 7 1993. An optional note.
- [2] Peter Babington. *The title of the work*, volume 4 of 10. The name of the publisher, The address, 3 edition, 7 1993. An optional note.
- [3] Mark Senn. Using L^AT_EX for your thesis. <http://engineering.purdue.edu/~mark/puthesis>, 2009 (accessed February 3, 2014).

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A Appendix