# This is the title

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#### **Abstract**

Keywords: keyword1, keyword2, keyword3

In this paper there are examples of all the useful things you can do with ETEX. This document includes settings and examples for using the following packages: amsmath, amsthm, comment, enumitem, fancyhdr, geometry, graphicx, hyperref, makeidx, natbib, palatino, titlesec, totcbibind, & verbatim plus the font packages: amsfonts, amssymb, cmmib57, eucal, (eufrak, euscript), & latexsym.

### 1 Introduction

This paper is a template for writing **MEX** papers for Brookline High School and other audiences.

In this paper there are examples of all the useful things you can do with MTEX. This document includes settings and examples for using the following packages: amsmath, amsthm, comment, enumitem, fancyhdr, geometry, graphicx, hyperref, makeidx, natbib, palatino, titlesec, totcbibind, & verbatim plus the font packages: amsfonts, amssymb, cmmib57, eucal, (eufrak,

euscript), & latexsym

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## 1.1 The quick brown fox

The quick brown fox jumps over the lazy dog. Nam dui ligula, fringilla a, euismod sodales, sollicitudin

<sup>\*†</sup> The authors wish to thank their families.

vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

#### 2 This Section

In section 2 there are examples of the various types of lists<sup>1</sup>:

Item 1 header This is item one...The quick brown fox jumps over the lazy

dog.

Item 2 header This is item one...The quick

brown fox jumps over the lazy

dog.

Item 3 header This is item one...The quick

brown fox jumps over the lazy

dog.

1) **Item 1 header** — This is item one...The quick brown fox jumps over the lazy dog.

- 2) **Item 2 header** This is item two...The quick brown fox jumps over the lazy dog.
- 3) **Item 3 header** This is item three... The quick brown fox jumps over the lazy dog.
- ► Item 1 header This is item one...The quick

brown fox jumps over the lazy dog.

- ► **Item 2 header** This is item two...The quick brown fox jumps over the lazy dog.
- ► Item 3 header This is item three... The quick brown fox jumps over the lazy dog.

### 3 The Other Section

In section 3 there are examples of mathematics:

$$y = mx + b Linear (3.1)$$

$$f(x) = \int_{-\infty}^{+\infty} e^{i\theta} d\theta \qquad \text{Integral} \quad (3.2)$$

$$z = 2^k - {k \choose 1} 2^{k-1} + {k \choose 2} 2^{k-2}$$
 Binomial (3.3)

#### 4 The Code Section

```
# 34567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901
```

Listing 1: m4tacolor.py module

<sup>&</sup>lt;sup>1</sup>These correspond to the <dl>, , & HTML tags.

### 5 Conclusion

This last section provides a citation so that a bibliography is automatically included for (Bretscher, 2009) & (Eliot, 1871).

### References

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