

The `emlab` package*

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1 Introduction

This package provides useful macros for software engineering papers.

2 Usage

`\etal` Use `\etal` to typeset “et al.” appropriately.

We extended the method in So-and-So `\etal~\cite{soandso}`.

We extended the method in So-and-So et al. [1].

`\ngram` Use `\ngram` to typeset n -gram appropriately.

We built an `\ngram\` language model.

We built an n -gram language model.

`\tfidf` Use `\tfidf` to typeset tf-idf appropriately.

We calculated `\tfidf`.

We calculated tf-idf.

`\token{<text>}` Use `\token`, and its small-caps variant `\stoken` to typeset tokens for use in demonstrating a natural language pipeline.

Accuracy was highest for `\token{if}`, `\token{\{}`,
`\stoken{Identifier}`, and `\stoken{String}` tokens.

Accuracy was highest for `\if`, `\{`, `\IDENTIFIER`, and `\STRING` tokens.

`\researchquestion{<text>}` Use `\researchquestion` to declare a research question. Refer to it inline in text using `\RQ{<number>}`

*This document corresponds to `emlab` v1.0, dated 2017/04/11.

```
\researchquestion{\RQ{1}:
  What do we do with 14,374 pairs of stolen underwear?
}
```

RQ1: What do we do with 14,374 pairs of stolen underwear?

The answer to \RQ1 proved to be inconclusive.

The answer to **RQ1** proved to be inconclusive.

`\hassanbox` Wraps text in a box to emphasize a point, such as a research question or a result.

```
\hassanbox{Shigesato Itoi seemed to really like The Beatles.}
```

Shigesato Itoi seemed to really like The Beatles.

3 Implementation

`\ngram` It uses a math mode n to emphasize that n is a mathematical constant, and not an abbreviation. We use `$$` instead of `\(` and `\)` because the latter are *fragile* commands.

```
1 \newcommand{\ngram}{$n$-gram}
```

`\tfidf`

```
2 \newcommand{\tfidf}{tf-idf}
```

`\etal` We could probably go really crazy with the implementation, but this is sufficient for now.

```
3 \newcommand{\etal}{et al.}
```

`\RQ`

```
4 \newcommand{\RQ}[1]{\textbf{RQ\#1}}
```

`\researchquestion`

```
5 \newcommand\researchquestion[1]{\begin{quote}\#1\end{quote}}
```

`\token, \stoken`

```
6 \newcommand{\token}[1]{\small\framebox{\#1}}
```

```
7 \newcommand{\stoken}[1]{\token{\textsc{\#1}}}
```

`\hassanbox`

```
8 \newcommand{\hassanbox}[1]{%
9   \smallskip%
10  \noindent\framebox{%
11    \begin{minipage}[c]{0.97\linewidth}%
12      \begin{center}%
13        \#1\par%
14      \end{center}%
15    }%
16 }
```

```
15     \end{minipage}%  
16   }%  
17   \smallskip%  
18 }
```

References

- [1] Foobar So-and-So, *An example bibliography entry*, Fake publisher, Persephone, 2nd edition, 2017.

Change History

v1.0
General: Initial version 1