

The `emlab` package*

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1 Introduction

This package provides useful macros for software engineering papers.

2 Usage

<code>\etal</code>	Use <code>\etal</code> to typeset “et al.” appropriately. We extended the method used by So-and-So <code>\etal~\cite{soandso}</code> . We extended the method used by So-and-So et al. [?].
<code>\ngram</code>	Use <code>\ngram</code> to typeset n -gram appropriately. We built an <code>\ngram\ language</code> model. We built an n -gram language model.
<code>\tfidf</code>	Use <code>\tfidf</code> to typeset tf-idf appropriately. We calculated <code>\tfidf</code> . We calculated tf-idf.
<code>\token{<i>text</i>}</code> <code>\stoken{<i>text</i>}</code>	Use <code>\token</code> , and its small-caps variant <code>\stoken</code> to typeset tokens for use in demonstrating a natural language pipeline. Accuracy was highest for <code>\token{if}</code> and <code>\stoken{Identifier}</code> tokens. Accuracy was highest for <code>if</code> and <code>IDENTIFIER</code> tokens.
<code>\researchquestion{<i>text</i>}</code> <code>\RQ{<i>number</i>}</code>	Use <code>\researchquestion</code> to declare a research question. Refer to it inline in text using <code>\RQ</code> . In both cases, you must explicitly provide the research question number. <code>\researchquestion{\RQ{1}: What do we do with 14,374 pairs of stolen underwear?}</code> <code>RQ1</code> : What do we do with 14,374 pairs of stolen underwear? The answer to <code>\RQ1</code> proved to be inconclusive. The answer to <code>RQ1</code> proved to be inconclusive.

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

3 Implementation

`\ngram` It uses a math mode n to emphasize that n is a mathematical constant, and not an abbreviation.

```
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}}}
```

Change History

v1.0
General: Initial version 1

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Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

Symbols		N		<code>\stoken{\ttfamily\char‘\{\}\meta{text}}{\ttfamily\char‘\}</code>
<code>\(</code>	1	<code>\ngram</code>	<u>1</u> , 1 1
<code>\)</code>	1			
B		R		T
<code>\begin</code>	5	<code>\researchquestion</code> . .	<u>5</u>	<code>\researchquestion{\ttfamily\char‘\{\}\meta{text}}{\ttfamily\char‘\}</code> 1
				<code>\textsc</code> 7
E		<code>\RQ</code>	<u>4</u>	<code>\tfidf</code> 1, <u>2</u>
<code>\end</code>	5	<code>\RQ\meta{number}</code> . .	1	<code>\token, \stoken</code> <u>6</u>
<code>\etal</code>	1, <u>3</u>			<code>\token{\ttfamily\char‘\{\}\meta{text}}{\ttfamily\char‘\}</code> 1
F		S		
<code>\framebox</code>	6	<code>\small</code>	6 1