The **emplab** 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⟩}`
`\stoken{⟨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⟩}`
`\RQ⟨number⟩`   Use `\researchquestion` to declare a research question. Refer to it inline in text using `\RQ`. In both cases, you must explicitly provide the research question number.

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[*]This document corresponds to emplab 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.

```
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     \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