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## Plugins Usage Examples

### Refnotes Plugin Usage Examples

These are examples of citations to books [1] and [2], a chapter on a smart companion [3], articles on IoT [4], blimps [5], cloud computing [6], gas emissions [7], pedestrian crossing behaviour [8], smart bicycles [9] and diaper moisture [10], and to Web resources [11], [12] and [13].

Please use superscript and subscript annotations to write powers and indexes, e.g.,  $m^2$  and  $CO_2$ .

### Caption Plugin Usage Examples

Table 1 illustrates a boxed table with default column widths and Table 2 with specific column widths.

Table 1: Boxed table

Abbreviation	Description
EPS	European Project Semester
ISEP	Instituto Superior de Engenharia do Porto
USB	Universal Serial Bus

Table 2: Boxed table with specific column widths

Abbreviation	Description
EPS	European Project Semester
ISEP	Instituto Superior de Engenharia do Porto
USB	Universal Serial Bus

Table 3 shows the execution time results for each API. Table 4 lists the fruit bought at the grocery.

Table 3: Time response

API	Time (s)
EJML	26
JAMA	295
JBLAS	29
MTJ	18
WEKA	123

Table 4: Fruit Weight

Fruit	Weight (kg)
Pears	2.60
Apples	2.95
Oranges	1.90

Figure 1 displays a magnificent owl from Lapland.



Figure 1: Owl

Figure 2 illustrates the placement of two images side by side.



Figure 2: Images side by side

Figure 3 presents the European Project Semester (EPS) logo.



Figure 3: EPS logo

## MathJax Plugin Usage Example

Equation `\ref{eq:cosinesimilarity}` represents the cosine similarity between two vectors of features. This similarity measurement takes values in the range of  $[0,1]$  [\[14\]](#). This is an in line expression  $a+b=c$ .

```

\begin{equation}
\cos\alpha=\frac{\hat{A}\cdot\hat{B}}{\|\hat{A}\|\|\hat{B}\|}\equiv\frac{\sum_{j=1}^n\hat{A}_j\hat{B}_j}{\sqrt{\sum_{j=1}^n\hat{A}^2_j}\sqrt{\sum_{j=1}^n\hat{B}^2_j}}
\label{eq:cosinesimilarity} \end{equation}

```

As [\[15\]](#) states, the most popular similarity metrics are the distance and the cosine similarity. The distance-based metrics include the Euclidean distance, the Hamming distance or the Chebyshev distance, among others.

Equation `\ref{eq:euclidean}` displays the Euclidean distance formula.

```

\begin{equation} d(x,y)=\sqrt{\sum_{k=1}^n(x_{k}-y_{k})^2} \label{eq:euclidean}
\end{equation}

```

## Code Listing Example

The server code is presented in Listing 1.

Listing 1: Server-side code

```

public class CheckersServer {
    private static final int PORT = 12345;
    private static char[][] board;
    private static List<ClientHandler> clients = new ArrayList<>();
    public static void main(String[] args) {

```

```
board = new char[8][8];
initializeBoard();
try (ServerSocket serverSocket = new ServerSocket(PORT)) {
    System.out.println("Checkers Server is running...");
    while (true) {
        Socket clientSocket = serverSocket.accept();
        ClientHandler clientHandler = new
ClientHandler(clientSocket);
        clients.add(clientHandler);
        new Thread(clientHandler).start();
    }
} catch (IOException e) {
    e.printStackTrace();
}
}
```

## Bibliography

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