

## Plugins Usage Examples

### Refnotes Plugin Usage Examples

These are examples of citations to books [Rita Thapa, et al., 2019] and [Kazuko Obayashi, Shigeru Masuyama, 2020], a chapter on a smart companion [Alexandre Soares dos Reis, et al., 2020], articles on IoT [Abdelbaset S. Hamza, et al., 2023], blimps [Manuel Mahn, Markus Kemper, 2006], cloud computing [B. Sotomayor, et al., 2009], gas emissions [Ranjith, V. Velmurugan, S. Thanikaikarasan, 2020], pedestrian crossing behaviour [Anae Sobhani, Bilal Farooq, 2018], smart bicycles [YeongKyun Lee, Jongpil Jeong, 2018] and diaper moisture [Tareq Khan, 2018], and to Web resources [Android Open Source Project, 2014], [Cloud Expo, 2008] and [Gartner, 2021].

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

Fruit	Weight (kg)
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  $a+b=c$ .

$$\cos\alpha = \frac{\hat{A} \cdot \hat{B}}{\|\hat{A}\| \|\hat{B}\|} \equiv \frac{\sum_{j=1}^n \hat{A}_j \hat{B}_j}{\sqrt{\sum_{j=1}^n \hat{A}^2_j} \sqrt{\sum_{j=1}^n \hat{B}^2_j}}$$

`\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 distance}` displays the Euclidean distance formula.

$$d(x,y) = \sqrt{\sum_{k=1}^n (x_k - y_k)^2}$$

`\label{eq:euclidean distance} \end{equation}`

## Todo Plugin Usage Example

For project management

[Team]Task allocation


[Team]Gantt chart

**Plugins Usage Examples** [Team]Task allocation [Team]Gantt chart**Task Plugin Usage Example**

Define, allocate and track the status of the project tasks:

<a href="#">Supervision Meeting Agenda (2nd week)</a>	2015/03/03 00:00	Mary	rejected
<a href="#">Weekly Minute (1st week)</a>	2015/03/03 00:00	John	done
<a href="#">Requirements</a>	2015/03/10 00:00	Rasmus, Arick	started

**AV Task Box Plugin Usage Example**

<b>Market research</b> (Adam, Sophie and Xavier)
Perform a market research concerning your product.
(10% of 4 h)  Priority: High

**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();
        }
    }
}
```

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