

# The **tikzDevice** Package

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July 16, 2009

## 1 Introduction

The **tikzDevice** package allows for graphics output in native L<sup>A</sup>T<sub>E</sub>X format. That is, the output of the `tikz()` function can be directly included in L<sup>A</sup>T<sub>E</sub>X documents by way of and `\input{}` statement. For example, in R

```
require(tikzDevice)
tikz('simpleEx.tex',width=3.5,height=3.5)
plot(1)
dev.off()
```

And then in a L<sup>A</sup>T<sub>E</sub>X document

```
\documentclass{article}
\usepackage{tikz}
\begin{document}
    \begin{figure}[!h]
        \centering
        \input{simpleEx.tex}
        \caption{Simple Example}
    \end{figure}
\end{document}
```

And you get

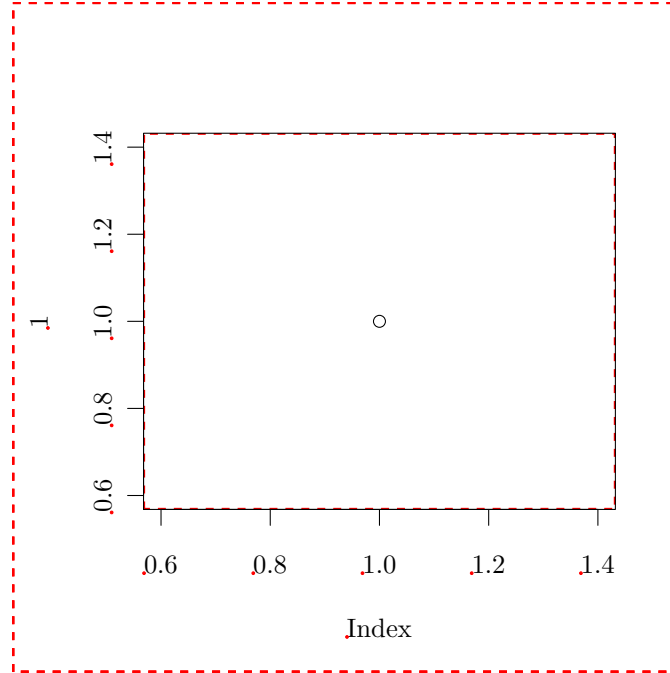


Figure 1: Simple Example

## 2 Background

About TikZ, the PicTeX device and the story of two fortran programmers with a dream.

## 3 System Requirements

## 4 Character Metrics and String Width

### 4.1 Dictionaries

### 4.2 What the Heck are Acent, Decent and Width

## 5 On the Importance of Font and Style Consistency in Reports

## 6 The pgfSweave Package and Automatic Report Generation