```
[bridge] style = {thick, double = yellow,
    double distance = 1pt}.
[nodes] style = {fill=offwhite]/blkseries, text=white,
    draw, fill = red]}

begin{document}
begin{tikzpicture}
node[vertex] (A) {A};
node[vertex, right = 4 cm of A] (B) {B};
draw (A) edge [bridge] node [number] {1} (B);
node[vertex, below = 2cm of A] (C) {C};
node[vertex, above = 2cm of A] (D) {D};
tikzset[bridge]{.append style = {bend right}}
draw (C) edge [bridge] node [number] {1} (B);
    (A) edge [bridge] node [number] {3} (D);
    (C) edge [bridge] node [number] {4} (A);
    (A) edge [bridge] node [number] {5} (C);
    (A) edge [bridge] node [number] {6} (D);
    (D) edge [bridge] node [number] {7} (A);
end{tikzpicture}
end{document}
```

When you compile the document, you will get the following comprehensive graph.

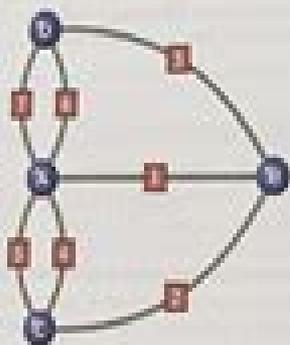
Figure 3.6 – A graph for the Seven Bridges of Königsberg problem

Using footnotes

As briefly mentioned in Chapter 2, Formatting Text and Creating Macros, LaTeX provides a command to typeset footnotes. Let's see it in action.

Let's go back to the very first example of this chapter. We shall insert one footnote in the body text and one in a section heading.

1. Modify the example inserting a footnote, as shown in the highlighted line:

```
documentclass[a4paper,12pt]{book}
usepackage[english]{babel}
usepackage{blindtext}
begin{document}
chapter{Exploring the page layout}
In this chapter we will study the layout of pages.
section{Some filler text}
blindtext
section{A lot more filler text}
More dummy text\footnote{serving as a placeholder}
will follow.
subsection{Plenty of filler text}
blindtext[10]
end{document}
```

2. Compile the code to see how the footnote looks in print.

1.2   A lot more filler text

More dummy text[1] will follow.

1.2.1   Plenty of filler text

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font.

---

[1] serving as a placeholder

Figure 3.7 – Text with a footnote

Graphics With Tikz Tex

Clemens Lode

Graphics With Tikz Tex:

    LaTeX Graphics with TikZ Stefan Kottwitz,2023-06-09 Unleash the power of LaTeX to create professional text articles diagrams and charts using TikZ and its wide range of features for stunning 2D and 3D effects Purchase of the print or Kindle book includes a free PDF eBook Key Features Achieve native construction of images and diagrams in your LaTex theses articles or books with enhanced quality Discover comprehensive explanations and real world use cases to apply in your own endavors Explore customizations and tweaks to grasp the synergy of LaTeX and TikZ graphics Book DescriptionIn this first of its kind TikZ book you ll embark on a journey to discover the fascinating realm of TikZ what it s about the philosophy behind it and what sets it apart from other graphics libraries From installation procedures to the intricacies of its syntax this comprehensive guide will help you use TikZ to create flawless graphics to captivate your audience in theses articles or books You ll learn all the details starting with drawing nodes edges and arrows and arranging them with perfect alignment As you explore advanced features you ll gain proficiency in using colors and transparency for filling and shading and clipping image parts You ll learn to define TikZ styles and work with coordinate calculations and transformations That s not all You ll work with layers overlays absolute positioning and adding special decorations and take it a step further using add on packages for drawing diagrams charts and plots By the end of this TikZ book you ll have mastered the finer details of image creation enabling you to achieve visually stunning graphics with great precision What you will learn Understand the TikZ language and how to use its libraries and packages Draw geometric shapes with text and add arrows labels and decorations Apply transformations and use transparency shading fading and filling features Define styles and program with loops to streamline your code Build trees graphs and mind maps and draw easy curves with smooth transitions Produce block diagrams and flow charts to visualize process steps Generate line charts and bar charts to showcase your data Plot data sets and mathematical functions in two and three dimensions Who this book is forThis book is for LaTeX users including students and academic authors seeking to incorporate figures such as diagrams plots and graphics to their theses articles and books If you re familiar with LaTeX basics from beginner s books or tutorials you ll be able to effortlessly explore the graphics topics in this book   **LaTeX Cookbook** Stefan Kottwitz,2024-02-29 Explore practical LaTeX examples across various fields like mathematics physics chemistry and computer science and learn to quickly create tables diagrams and plots for your thesis presentations and articles Key Features Work with ready to use document templates to write articles books a thesis and more Refine text fonts formulas and tables and optimize PDF properties Create captivating graphics directly within LaTeX in 2D and 3D Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThe second edition of LaTeX Cookbook offers improved and additional examples especially for users in science and academia with a focus on new packages for creating graphics with LaTeX This edition also features an additional chapter on ChatGPT use to improve content streamline code and automate tasks thereby saving time This book is a practical guide to utilizing the capabilities of

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gnuplot s advanced capabilities Experienced readers will appreciate the discussion of gnuplot 5 s features including new plot types improved text and color handling and support for interactive web based display formats The book concludes with chapters on graphical effects and general techniques for understanding data with graphs It includes four pages of color illustrations 3D graphics false color plots heatmaps and multivariate visualizations are covered in chapter length appendixes available in the eBook What s Inside Creating different types of graphs in detail Animations scripting batch operations Extensive discussion of terminals Updated to cover gnuplot version 5 About the Reader No prior experience with gnuplot is required This book concentrates on practical applications of gnuplot relevant to users of all levels About the Author Philipp K Janert PhD is a programmer and scientist He is the author of several books on data analysis and applied math and has been a gnuplot power user and developer for over 20 years Table of Contents PART 1 GETTING STARTED Prelude understanding data with gnuplot Tutorial essential gnuplot The heart of the matter the plot command PART 2 CREATING GRAPHS Managing data sets and files Practical matters strings loops and history A catalog of styles Decorations labels arrows and explanations All about axes PART 3 MASTERING TECHNICALITIES Color style and appearance Terminals and output formats Automation scripting and animation Beyond the defaults workflow and styles PART 4 UNDERSTANDING DATA Basic techniques of graphical analysis Topics in graphical analysis Coda understanding data with graphs **The LaTeX Graphics Companion** Michel Goossens,Frank Mittelbach,Sebastian Rahtz,Denis Roegel,2008 The LATEX typesetting system remains a popular choice for typesetting a wide variety of documents from papers journal articles and presentations to books especially those that include technical text or demand high quality composition This book is the most comprehensive guide to making illustrations in LATEX documents and it has been completely revised and expanded to include the latest developments in LATEX graphics The authors describe the most widely used packages and provide hundreds of solutions to the most commonly encountered LATEX illustration problems This book will show you how to Incorporate graphics files into a LATEX document Program technical diagrams using several languages including METAPOST PSTricks and XY pic Use color in your LATEX projects including presentations Create special purpose graphics such as high qualitymusic scores and games diagrams Produce complex graphics for a variety of scientific and engineering disciplines New to this edition Updated and expanded coverage of the PSTricks and METAPOST languages Detailed explanations of major new packages for graphing and 3 D figures Comprehensive description of the xcolor package Making presentations with the beamer class The latest versions of gaming and scientific packages There are more than 1100 fully tested examples that illustrate the text and solve graphical problems and tasks all ready to run All the packages and examples featured in this book are freely downloadable from the Comprehensive TEX Archive Network CTAN The LATEX Graphics Companion Second Edition is more than ever an indispensable reference for anyone wishing to incorporate graphics into LATEX As befits the subject the book has been typeset with LATEX in a two color design **Unlocking LaTeX Graphics** Tamara Kolda,2024-08-07 LaTeX is used the

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