Introduction to graph theory pdf download



This guide is free to download today! What is the psychological effect of red? What colours will make a call-to-action stand out most against blue? Why did traffic drop after switching from orange to yellow? To find out, download the free ebook Colour Theory in Web UI Design: A Practical Approach to the Principles (opens in new tab). Colours play a vital role in every visual medium, and web design is no exception. However, not all designers might understand the subtle (and sometimes not-so-subtle) effects of colours for interface design. That's why the makers of UXPin (opens in new tab), the popular wireframing and prototyping tool, wrote this free pocket guide. It's the guick and easy overview of everything a designer needs to know about colour. Citing expert advice and illustrating its points through live examples, this book offers a crash course in colour theory. In this pocket guide, you"ll discover: A brief history of colour theory over the last millennium, and how it applies to web design. The psychological impact of each of the primary colours. Which colours can set which mood for your sight, whether you"re going for relaxing, trustworthy, stimulating, or more colours. Examples from the most successful sites to show colour use at its best. How styles guides help keep your colours organized, and some free speedOptional upgrade availableDo you have a passion for music and want to learn more about how it works? Are you a musician who learned by ear and has no formal training? Would you like to study music but are unsure of where to begin? Then this music theory course is for you. This course includes six lessons that will give you the knowledge and skills you need to understand basic music theory. You'll learn from Berklee College of Music professor George W. Russell, Jr. and from Berklee students who share their musical journey and offer advice for those wanting it with others. Institution: BerkleeXSubject: HumanitiesLevel: IntroductoryPrerequisites: The ability to play an instrument is helpful but not required. You should have a passion for music and a strong interest in developing your understanding of music and ability to create it.Language: EnglishVideo Transcript: English How to construct major and minor scales How to identify, analyze, and sing intervals How to identify the tonal center of a song How to build basic major, minor, and dominant seventh chords How to recognize blues and AABA song forms Lesson 1: Major Scale Defining Harmony, Ear Training, and Intervals Constructing and Singing the Major Scale Major 2nd and Major 3rd Intervals Finding the Tonal Center Lesson 2: Major and Minor Triads Review from Lesson 2 Major and Minor Triads The I IV V Chord Progression Lesson 3: Pentatonic Scale Review from Lesson 3: Pentatonic Scale Review from Lesson 4: Lesson 4: Major and Dominant Seventh Chords Review from Lesson 5: Song Form Review from Lesson 5: Song Form Review of All Material Composing a Blues Riff Tune Using the Minor Pentatonic Scale Your data is only as good as your ability to understand and communicate it. Effective marketers aren't only able to understand and analyze the numbers, but also to effectively communicate the story behind those numbers. The best way to tell a story with your data is by visualizing it using a chart or graph. Visualizing your data helps you uncover patterns, correlations, and outliers, communicate insights to your boss, your team, or your company, and make smart, data-backed decisions. Designing charts and graphs may seem intimidating -- especially to folks who aren't designers by trade. But the good news is, you don't need a PhD in statistics to crack the data visualization code. We've created a new guide to help you: An Introduction to Data Visualization: How to Design Compelling Charts & Graphs That Are Easy to Understand. This guide will walk through: What data visualization is and why it's important; When to use the different data types, data relationships, and chart types; How to visualize your data effectively; The best data visualization tools. Ready to learn how to analyze, visualize, and communicate your data better? Download our free introductory ebook on data visualization and use what you learned to run better experiments, create better presentations, and make better business decisions. Originally published Apr 17, 2017 6:00:00 AM, updated October 03 2020 One goal of statistics is to present data in a meaningful way. Often, data sets involve millions (if not billions) of values. This is far too many to print out in a journal article or sidebar of a magazine story. That's where graphs can be invaluable, allowing statisticians to provide a visual interpretation of complex numerical stories. Seven types of graphs are commonly used in statistics. Good graphs convey information quickly and easily to the user. Graphs highlight the salient features of the data. They can also provide a convenient way to compare different sets of data. Different situations call for different types of graphs, and it helps to have a good knowledge of what types are available. The types of data often determines what graph is appropriate to use. Qualitative data, and paired data each use different types of graphs. Erik Dreyer / Getty Images A Pareto diagram or bar graph is a way to visually represent qualitative data. Data is displayed either horizontally or vertically and allows viewers to compare items, such as amounts, characteristics, times, and frequency. The bars are arranged in order of frequency, so more important categories are emphasized. By looking at all the bars, it is easy to tell at a glance which categories in a set of data dominate the others. Bar graphs can be either single, stacked, or grouped. Vilfredo Pareto (1848-1923) developed the bar graph when he sought to give economic decision-making a more "human" face by plotting data on graph paper, with income on one axis and the number of people at different income levels on the other. The results were striking: They showed dramatically the disparity between rich and poor in each era over the course of centuries. Walker and Walker / Getty Images Another common way to represent data graphically is a pie chart. It gets its name from the way it looks, just like a circular pie that has been cut into several slices. This kind of graph is helpful when graphing gualitative data, where the information describes a trait or attribute and is not numerical. Each slice of pie represents a different category, and each trait corresponds to a different slice of the pie; some slices usually noticeably larger than others. By looking at all of the pie pieces, you can compare how much of the data fits in each category, or slice. Qwfp / Wikimedia Commons / CC BY 3.0 A histogram in another kind of graph that uses bars in its display. This type of graph is used with quantitative data. Ranges of values, called classes, are listed at the bottom, and the classes with greater frequencies have taller bars. A histogram often looks similar to a bar graph, but they are different because of the level of measurement of the data. Bar graphs measure the frequency of categorical data. A categorical variable is one that has two or more categories, such as gender or hair color. Histograms, by contrast, are used for data that involve ordinal variables, or things that are not easily guantified, like feelings or opinions. A stem and leaf plot breaks each value of a quantitative data set into two pieces: a stem, typically for the highest place value, and a leaf for the other place values. It provides a way to list all data values in a compact form. For example, if you are using this graph to review student test scores of 84, 65, 78, 75, 89, 90, 88, 83, 72, 91, and 90, the stems would be 6, 7, 8, and 9, corresponding to the tens place of the data. The leaves—the numbers to the right of a solid line—would be 0, 0, 1 next to the 9; 3, 4, 8, 9 next to the 8; 2, 5, 8 next to the 9; 3, 4, 8, 9 next to the 6. This would show you that four students scored in the 90th percentile, three students in the 80th percentile, two in the 70th, and only one in the 60th. You'd even be able to see how well students in each percentile performed, making this a good graph to understand how well students comprehend the material. Produnis/Wikimedia Commons/Public Domain A dot plot is a hybrid between a histogram and a stem and leaf plot. Each quantitative data value becomes a dot or point that is placed above the appropriate class values. Where histograms use rectangles—or bars—these graphs use dots, which are then joined together with a simple line, says statisticshowto.com. Dot plots provide a good way to compare how long it takes a group of six or seven individuals to make breakfast, for example, or to show the percentage of people in various countries who have access to electricity, according to MathIsFun. Illia Connell / Wikimedia Commons / CC BY 3.0 A scatterplot displays data that is paired by using a horizontal axis (the x-axis), and a vertical axis (the y-axis). The statistical tools of correlation and regression are then used to show trends on the scatterplot. A scatterplot usually looks like a line or curve moving up or down from left to right along the graph with points "scattered" along the line. The scatterplot helps you uncover more information about any data set, including: The overall trend among variables (You can guickly see if the trend is upward or downward.) Any outliers from the overall trend. The shape of any trend. The strength of any trend. The strength of any trend. Eaton / Wikimedia Commons / CC BY 4.0 A time-series graph displays data at different points in time, so it is another kind of graph to be used for certain kinds of paired data. As the name implies, this type of graph to be used for certain kinds of paired data. use this type of graph to plot the population of the United States over the course of a century. The y-axis would list the growing population, while the x-axis would list the years, such as 1900, 1950, 2000.

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