The Power of Infographics
Using pictures to communicate and connect with your audiences

Foreword by Guy Kawasaki, author of Enchantment and former chief evangelist of Apple

Mark Smiciklas
the Power of Infographics

Using Pictures to Communicate and Connect with Your Audiences

Mark Smiciklas
# CONTENTS AT A GLANCE

Foreword by Guy Kawasaki ........................................................................ xiii

## SECTION I: VISUAL COMMUNICATION

1. Infographics 101 .................................................................................. 3

## SECTION II: BUSINESS INFORMATION NEEDS

2. Visualizing Numbers and Concepts .................................................. 21
3. Visualizing How Things Work and Are Connected ....................... 35
4. Visualizing Who, When, and Where .............................................. 57

## SECTION III: CREATING INFOGRAPHICS

5. Infographic Prep Work ....................................................................... 75
6. Processing Your Ideas ......................................................................... 87
7. Designing Your Infographics ............................................................. 99
8. Publishing Your Infographics ............................................................ 119

## SECTION IV: BUSINESS VALUE

9. Infographics as an Internal and External Communication Tool ........ 137
10. Infographic ROI .................................................................................. 157
11. Infographic Resources ....................................................................... 165
    Index .................................................................................................. 189
# TABLE OF CONTENTS

## SECTION I: VISUAL COMMUNICATION

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>INFOGRAPHICS 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>What Are Infographics?</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Infographics Defined</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Infographic History</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>The Science of Visualization</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Hardwiring</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Easy on the Mind</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Visual Learning</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Why Infographics Work for Business</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Easy to Digest</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Shareability</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>The “Cool” Factor</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Endnotes</td>
<td>16</td>
</tr>
</tbody>
</table>

## SECTION II: BUSINESS INFORMATION NEEDS

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>VISUALIZING NUMBERS AND CONCEPTS</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Statistics</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>Using Data to Tell a Story</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>The Benefits of Visualizing Research</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Understanding the Risks</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Ideas and Concepts</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td>Using Visual Metaphors</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Using Cartoons to Communicate Your Ideas</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Case Study: The Kronos “Time Well Spent” Cartoon Series</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Endnotes</td>
<td>34</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>VISUALIZING HOW THINGS WORK AND ARE CONNECTED</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>Process</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>The Jargon Dilemma</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Infographics Help Explain What You Do</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>Hierarchy</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>Business Hierarchies</td>
<td>42</td>
</tr>
</tbody>
</table>
## Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relationships</td>
<td>47</td>
<td></td>
</tr>
<tr>
<td>Simplified Systems Thinking</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>Business Models</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>Endnotes</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td><strong>4</strong></td>
<td>VISUALIZING WHO, WHEN, AND WHERE</td>
<td>57</td>
</tr>
<tr>
<td>Personality</td>
<td>57</td>
<td></td>
</tr>
<tr>
<td>Brand Humanization</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>Infographic Resumes</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Chronology</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Business Timelines</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Geography</td>
<td>69</td>
<td></td>
</tr>
<tr>
<td>Business Maps</td>
<td>69</td>
<td></td>
</tr>
<tr>
<td>Endnotes</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td><strong>SECTION III: CREATING INFOGRAPHICS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>5</strong></td>
<td>INFOGRAPHIC PREP WORK</td>
<td>75</td>
</tr>
<tr>
<td>Purpose</td>
<td>77</td>
<td></td>
</tr>
<tr>
<td>Understanding Your Audiences’ Information Needs</td>
<td>77</td>
<td></td>
</tr>
<tr>
<td>Audience Analysis</td>
<td>77</td>
<td></td>
</tr>
<tr>
<td>Setting Infographic Objectives</td>
<td>79</td>
<td></td>
</tr>
<tr>
<td>The Art of Observation</td>
<td>82</td>
<td></td>
</tr>
<tr>
<td>Seeing</td>
<td>82</td>
<td></td>
</tr>
<tr>
<td>Listening</td>
<td>83</td>
<td></td>
</tr>
<tr>
<td>Endnotes</td>
<td>86</td>
<td></td>
</tr>
<tr>
<td><strong>6</strong></td>
<td>PROCESSING YOUR IDEAS</td>
<td>87</td>
</tr>
<tr>
<td>Recording Your Thoughts</td>
<td>87</td>
<td></td>
</tr>
<tr>
<td>I’m Not an Artist</td>
<td>87</td>
<td></td>
</tr>
<tr>
<td>Different Ways to Document</td>
<td>88</td>
<td></td>
</tr>
<tr>
<td>Info-Synthesis</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>The Five W’s (and One H) of Infographics</td>
<td>94</td>
<td></td>
</tr>
<tr>
<td>Endnotes</td>
<td>98</td>
<td></td>
</tr>
<tr>
<td><strong>7</strong></td>
<td>DESIGNING YOUR INFOGRAPHICS</td>
<td>99</td>
</tr>
<tr>
<td>The Critics</td>
<td>99</td>
<td></td>
</tr>
<tr>
<td>Infographic DIY</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>An Infographic Rant</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>The DIY Infographic Formula</td>
<td>103</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Page</td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------------------------------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>Graph Design for the Eye and Mind</td>
<td>180</td>
<td></td>
</tr>
<tr>
<td>Information Graphics: A Comprehensive Illustrated Reference</td>
<td>180</td>
<td></td>
</tr>
<tr>
<td>Information Visualization: Perception for Design</td>
<td>180</td>
<td></td>
</tr>
<tr>
<td>Marks and Meaning, version zero</td>
<td>180</td>
<td></td>
</tr>
<tr>
<td>Now You See It: Simple Visualization Techniques for Quantitative Analysis</td>
<td>181</td>
<td></td>
</tr>
<tr>
<td>Slideology: The Art and Science of Creating Great Presentations</td>
<td>181</td>
<td></td>
</tr>
<tr>
<td>Visual Language: Global Communication for the 21st Century</td>
<td>181</td>
<td></td>
</tr>
<tr>
<td>Information Designers, Consultants, and Agencies</td>
<td>181</td>
<td></td>
</tr>
<tr>
<td>Agencies</td>
<td>182</td>
<td></td>
</tr>
<tr>
<td>Freelance Designers</td>
<td>184</td>
<td></td>
</tr>
<tr>
<td>Consultants</td>
<td>187</td>
<td></td>
</tr>
<tr>
<td>INDEX</td>
<td>189</td>
<td></td>
</tr>
</tbody>
</table>
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ABOUT THE AUTHOR

Mark Smiciklas is the president of Intersection Consulting, a Vancouver-based digital marketing and communications agency that teaches organizations how to leverage the dynamics of web 2.0 to achieve business goals. He is an established digital marketing and social media practitioner recognized for his visual thinking and strategic, no-nonsense approach. His service offering is framed by core beliefs in listening, stakeholder engagement, trust creation, and employee empowerment. An interest in the evolution of social business continues to motivate him, as does a passion for teaching. Smiciklas has developed and taught social media strategy classes for undergraduates and adult learners at a number of Canadian universities. He also has spoken about a wide variety of digital marketing topics at corporate and public events and workshops. His genuine love of technology and people continues to ignite ongoing learning and new thinking that aim to help individuals and organizations connect with their audiences. Smiciklas hangs out full time at intersectionconsulting.com/blog. He can be found on Twitter at @Intersection1. He is also a regular contributor to socialmediaexplorer.com, the popular digital and social media marketing and online communications blog. He lives in North Vancouver, BC, Canada with his lovely wife, three kids, and Max the dog.
DEDICATION

For Jean, Alexander, Madeleine, and Emily. Your love and support make anything possible.

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I hope you enjoy *The Power of Infographics* and that it helps you learn more about how information design can help you communicate and connect with your audiences. I’d love to hear from you. If you’re interested in chatting about the ideas in this book, please join the conversation at facebook.com/powerofinfographics, or feel free to connect on Twitter at @Intersection1.
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Infographic Foreword by Guy Kawasaki

In the beginning, pictures ruled as a way to communicate ideas. They still do. 35,000 years ago, people drew remarkable pictures on rocks and walls to communicate with one another.

Fast-forward 1982. USA Today departed from the text-centric, black-and-white newspaper format and used color pictures and infographics to report the news.

Critics had their say.

Infographics are dumbing down America!

Infographics will never last!

They were wrong.

People like to see the visualization of information in newspapers and books, on their e-reader, on the web, and especially in business presentations. For example, Facebook used infographics in its amendment to its S-1 SEC filing.

Fortunately, Mark Smiciklas has written a book that helps you learn how to master infographics—to make it easier for you to enable people to understand your point, to make well-informed decisions, and to take action.

We’re not cavemen and cavewomen anymore, but pictures still rule. Maybe 35,000 years from now, people will look at your infographics and consider them remarkable, too.

“Newspaper”, “Bar Graph” by Scott Lewis, from TheNounProject.com
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If you’ve read a newspaper or blog, flipped through a magazine, or used social media recently, you’ve likely come across infographics—those self-contained pictorials that tell you the gist of a story or concept at a glance.

But what is their purpose? Are infographics simply eye candy that publishers and brand journalists use to gloss up their content, or do they aim to fulfill a greater business communication objective?

WHAT ARE INFOGRAPHICS?

You’ve probably heard the phrase “A picture is worth a thousand words,” a manifesto that speaks to the value and efficiency of visual communication.

An infographic (short for information graphic) is a type of picture that blends data with design, helping individuals and organizations concisely communicate messages to their audience (see Figure 1.1).

INFOGRAPHICS DEFINED

More formally, an infographic is defined as a visualization of data or ideas that tries to convey complex information to an audience in a manner that can be quickly consumed and easily understood.

The process of developing and publishing infographics is called data visualization, information design, or information architecture.
Infographics combine data with design to enable visual learning. This communication process helps deliver complex information in a way that is more quickly and easily understood.
From a business perspective, one definition of infographics resonates above the rest. British graphic designer, author, and information design theorist Nigel Holmes simply refers to them as “explanation graphics.”

As a marketer, business owner, or manager, you can boil down your communication goals to explaining things to your audience. Infographics can help you communicate the following:

- Thought leadership and product features and benefits to your prospects
- Business process and service options to your customers
- Ideas and policies to your staff
- Corporate philosophy and strategy to your investors

Infographics can help your organization more effectively explain important information to your internal and external stakeholders.

**Business Uses**

Now that you have a basic understanding of what infographics are, what are some ways you can implement them into your business communication mix?

First, it’s important to understand that infographics are not used solely for external communication. They are a great medium for delivering marketing messages or insights to consumers and prospects, but they are equally effective when used to enhance internal communication.

Before you figure out how you can start using infographics, it helps to understand the nature of the information you are trying to communicate.

Business information can be divided into the following groups:

- **Statistics**—metrics such as sales, revenue, market research, surveys
- **Process**—manufacturing, customer service, sales funnel, lead generation, supply chain
- **Ideas**—concepts, theories, thought leadership, ideology
- **Chronology**—history, order of events, timelines, schedules
- **Geography**—locations, metrics by region
- **Anatomy**—ingredients, components, lists
- **Hierarchy**—organizational structure, needs assessment
- **Relationships**—internal, external, people, products/services
- **Personality**—brand humanization, organizational culture
Many people are familiar with statistics being represented as infographics because of the popularity of data visualization and its use in traditional media. However, business owners, marketers, and managers tend to overlook the use of infographics to communicate other types of information.

The next section delves into information categories in more detail. You will begin to see how infographics can effectively represent different types of business data and how they can become a powerful part of your organization’s communication strategy.

INFOGRAPHIC HISTORY

Today, infographics can be used by a wide variety of individuals and organizations to enhance their communication. “Solopreneurs,” small businesses, nonprofits, and large corporations can all find ways to use infographics to make their information more interesting and accessible to their target audiences.

You can find infographics published in traditional media such as newspapers and magazines and across digital channels, where social media has helped fuel an explosion in their popularity.

To the casual observer, it would appear that infographics are a recent phenomenon that has been growing in conjunction with the growth of the Internet. The reality is that we have been using icons, graphics, and pictures throughout history to tell stories, share information, and build knowledge, as shown in Figure 1.2.

As we entered the new millennium the publishing of infographics became more democratized, and their use began to extend beyond academia and traditional media channels.

Today, in an era of information overload and shortened attention spans, organizations of all sizes are using infographics to quickly deliver information and understanding to internal and external audiences. Add the fact that social media fuels “shareability,” and everything points to infographics becoming one of the most effective forms of content for communicating information in the digital age. (Shareability is explained in greater detail later in this chapter.)
THE SCIENCE OF VISUALIZATION

Brain research related to the physiology of sight and the ways in which we process information using our eyes presents compelling rationale for considering the use of infographics in your business communication mix.

HARDWIRING

Vision is a huge part of the physical brain. Approximately 50% of the brain is dedicated (directly or indirectly) to visual functions.

The network of cells, neurons, and fibers that hosts all this activity is truly expansive. Within the eye, the retina alone is made up of more than 150 million cells and is actually a physical extension of the brain. In addition, neurons that are responsible for visual activity take up a large portion of the brain's real estate, representing approximately 30% of our total gray matter. To put this in perspective, neurons for touch and hearing make up only 8% and 3%, respectively.

EASY ON THE MIND

With all this visual “hardwiring” in place, it makes sense that it would be less complicated for the brain to process infographics than pure text.

Each letter in a word is essentially a symbol. To read text, the brain needs to act as a decoder first, matching those letters with shapes stored in memory. From there the brain must figure out how all the letters fit together to form words, how words form sentences, and how sentences form paragraphs. Although all this comprehension takes place in only a split second, relatively speaking, when compared to how the brain deals with images, the process requires considerably more mental effort.

One of the reasons we can process images faster than text is because of how the brain handles information. It processes data from pictures all at once but processes text in a linear manner, as shown in Figure 1.3.

So, in a way, by using infographics to communicate, you make it physically easier for your audience to relate and connect to your information.

In a TED talk about the beauty of data visualization, writer and designer David McCandless expands on the idea that infographics provide a sense of relief in a landscape filled with a mind-numbing amount of information:

“There's something almost quite magical about visual information. It's effortless. It literally pours in. If you're navigating a dense information jungle, coming across a beautiful graphic or lovely data visualization is a relief. It's like coming across a clearing in the jungle.”
THE POWER OF INFOGRAPHICS

3,000 BC
Good examples of early infographics are Egyptian hieroglyphics which formed language through the use of graphic symbols and icons.

1510
Leonardo da Vinci blended written instruction with illustrations to create a comprehensive guide on human anatomy.

30,000 BC
The first examples of infographics date back to the Late Stone Age when our ancestors began painting animal portraits on cave walls in the south of France.

1350
Medieval French philosopher Nicole d'Orsme created one of the first graphs in order to help explain how to measure a moving object.

1786
Scottish engineer William Playfair pioneered data visualization. His book "The Commercial and Political Atlas and Statistical Breviary" was the first to explain numeric data through the use of linear graphs, pie charts and bar graphs.

Source: Wikipedia.com

FIGURE 1.2
A brief history of infographics.
1857
English nurse Florence Nightingale combined stacked bar/pie charts (Coxcomb chart) to illustrate the monthly number of casualties and causes of death explain during the Crimean War. She used these infographics to help convince Queen Victoria to improve conditions in military hospitals.

1850-1870
Charles Joseph Minard, a Civil Engineer from France, began combining maps with flow charts in order to explain geographical statistics. One of his most famous data visualizations illustrated the causes of Napoleon’s failed attempt to invade Russia. He captured a complex data set for the period (map location, direction travelled, decline in troops and temperature) in a single infographic.

1970-1990
Infographics became more popular as mainstream news publications like The Sunday Times (UK), Time Magazine and USA Today began using them to simplify information and enhance comprehension of complicated issues and news stories.

1930-1940
The modern era ushered in Isotype, a visual communication model developed by Otto Neurath to teach ideas and concepts through the use of icons and pictures.
FIGURE 1.3

Visual learning.
Novelty
The brain is designed to seek out things that are different.

Think of the mind as a computer hard drive. For the brain to remain nimble and operate efficiently, its memory can’t get filled up. To maintain an optimal processing speed, the brain filters incoming data and ends up discarding 99% of all sensory information almost immediately after perceiving it. One key component of this filtering process is assessing whether the incoming information is different from what the brain is accustomed to seeing. Information that is in some way novel or unusual attracts the brain’s attention.5

Infographics provide an opportunity for your organization to add that element of novelty or uniqueness to your information and make it more noticeable to your audience.

VISUAL LEARNING
Based on the VARK6 model, people use four primary learning styles to process information:

- **Visual**—People learn by viewing graphic formats such as charts, maps, and diagrams instead of words.
- **Auditory**—People learn by listening to spoken words.
- **Read/write**—People learn by reading or writing words.
- **Kinesthetic**—People learn through experience (by doing).

Organizations using infographics to communicate their ideas and information have an opportunity to bridge the knowledge gap with their audiences. Infographics can improve the level at which customers and prospects engage with their marketing content. In addition, visualizing information can improve learning among employees and other internal stakeholders.

Some of the learning benefits associated with infographics include the following:

- Improved comprehension of information, ideas, and concepts
- Enhanced ability to think critically and develop and organize ideas
- Improved retention and recall of information7

Because it’s estimated that visual learners represent approximately 65% of the population,8 it makes practical business sense to begin incorporating infographics into your organization’s content strategy.
WHY INFOGRAPHICS WORK FOR BUSINESS

It is evident from the preceding section that our brains are “wired” for visual communication. But how does the scientific rationale for using infographics translate to the world of business?

There is no doubt that our attention spans are becoming more compressed as technology and digital media become more prevalent in our personal and professional lives. In the age of information overload, data crashes over us like a tidal wave (see Figure 1.4). There are a number of dynamics at play that help make a business case for the use of infographics in your marketing, content strategy, or communication mix.

EASY TO DIGEST

Your audiences are consuming more and more of their information online, so it’s important to understand how the process of interacting with digital data differs from that of print.

In general, we tend to read much slower off a screen than we do from more tactile media such as books and magazines. The reality is we have become scanners and skimmers of content.

Over the last two decades, renowned web usability expert Jakob Nielsen has been researching how users interact with the web. One thing he discovered is just how little we actually like to read online, establishing that the average person will read about 20% of the words on a regular web page.9

The information age has also sparked a change in how your audience processes information and navigates the web. One behavior pattern that has developed is Continuous Partial Attention,10 in which web users are simultaneously connected to multiple digital channels in order to maximize their access to information. The end result is increased exposure to content but at a more superficial level, creating slivers of attention (see Figure 1.5).

One of the by-products of this new online reality is the “attention economy,” the idea that a consumer’s attention to information has become a form of currency. A user becomes aware of your content, invests an amount of mental energy consuming that information, and then decides whether to engage further.11

Social media strategy consultant, speaker, and author Jay Baer believes that technology is shaping the evolution of communication in this era of fractured attention spans.

“To a large degree, technology dictates how we communicate,” says Baer. “Time wasn’t an issue in the days when we used scrolls and long-form writing to share information.”
In an era of data overload, infographics offer your audience information in a format that is easy to consume and share.
As we continue to gain access to vast volumes of information, our attention spans are becoming more fractured. Because the brain seeks out and notices things that are different, it can be easier to attract more slivers of your audience’s attention by communicating your information visually.
Baer goes on to say that infographics fit very well into the “140-character” world: “As we become more pressed for time, concise, crystallized communication has become more important.”

In an era where time is at a premium and attention is becoming a precious commodity, your audience is looking for nuggets of information. Infographics serve that need by presenting knowledge in an easy-to-digest format.

**SHAREABILITY**

Another important online communication dynamic is “word of mouse”—the ability of your information to spread digitally from person to person.

You don’t need to be a programmer to embed sharing functionality on digital channels. Sharing toolbars and widgets are very accessible to content creators and are becoming commonplace on websites, blogs, and social networks.

When it comes to sharing content, the challenge is less technological than it is behavioral.

Many people are not comfortable sharing a link to an article, blog post, or web page unless they’ve had the chance to read it. A lot of content is shared across business networks, and many professionals want to make sure that information is relevant to their audience and congruent with their opinions and beliefs before they share it. Being pressed for time, many people don’t necessarily have the luxury of reading lengthy amounts of text. As a result, they are less likely to share certain types of content.

Jason Falls, CEO of Social Media Explorer LLC, thinks that infographics have an inherently low barrier when it comes to sharing. “With infographics, you’re not asking people to spend ten minutes reading eight hundred words of text,” says Falls. “If you’ve got the key point of your message summed up in an attractive infographic, your audience can glance at it and get it... that’s faster.” He goes on to say that infographics are shared because “they are easy to comprehend and don’t take up much of people’s time. If infographics communicate something useful, there is a strong likelihood that people will share them with their networks.”

Falls also feels that there is a reluctance to share long-form content. “These days, I think people are more hesitant when it comes to sharing lengthy blog posts or videos,” he says. “If you’ve got an infographic that literally takes 20 seconds or so to scroll and scan, it becomes quick and easy to study and makes it much more shareable.”

A well-placed, self-contained infographic addresses our need to be confident about the content we’re sharing. Infographics relay the gist of your information quickly, increasing the chance for it to be shared and fueling its spread across a wide variety of digital channels.
THE “COOL” FACTOR

Aesthetics are another reason that well-designed infographics are an effective communication tool. Simply put, infographics are different—and cool to look at, as in Figure 1.6!

Competition for your audience’s attention is fierce. The average person is exposed to the equivalent of 174 newspapers full of information every day. As a result, the person your brand is trying to connect with probably spends only a few seconds on your content before deciding whether to move on to the next post, site, or network. Differentiating your organization, brand, or ideas is critical.

That fact that infographics are unique allows organizations an opportunity to make the content they are publishing stand out and get noticed.

ENDNOTES

Infographics serve practical business communication goals, but also work because they are cool and aesthetically pleasing. This fun infographic, created by Column Five for MySpace, shows the quirky inner-workings of the mind of a film buff. (Source: Column Five for MySpace. You can view the full version of this infographic at http://bitly.com/yHhoN9)
Symbols

5W1H questions (information synthesis), 94-98
how?, 97
what?, 94-96
when?, 96
where?, 96-97
who?, 94
why?, 97

A

activation metrics, 163
active listening, 83-85
aesthetics of infographics, 16-17
agencies
   pricing, 117-118
   websites, 181-187
Allage, Ali, 25-26

Alltop, 105
ALT text, 148
Always with Honor, 182
anatomy (information category), 5
Anderson, Kelli, 184
Anderson, Michael, 61
Armano, David, 107, 153
artistic ability, 87-88
attention spans, effect of digital data on, 12-15
audience
   for DIY infographics, 103
   for infographics, 76-79, 94, 97
researching social media preferences of, 119
auditory learners, 11
average time on page metrics, 162
awareness (objective type), 80
   metrics, 161-162
business timelines, 65-68
business value of infographics, 5, 138

C

Calliope Learning, 58-59
cartoons, 30-33
case studies, Kronos Incorporated (cartoons), 33
Chartle, 175
charts, 168-170
Chernov, Joe, 107, 138, 143, 148, 153
chronology (information category), 5
visualization of, 65-68
Column Five, 109, 113, 182
comments metrics, 162
communication (objective type), 80
of brand, 137

business value of, 138
ccontent marketing, 139-142
Eloqua example, 143-148
Kronos example, 141
in marketing communication, 138
promoting infographics, 148-153
brand humanization, 58-60
Brogan, Chris, 120
business maps, 69-71
business information, categories of, 5
business models, visualization of, 49-54
business process, visualization of, 35
benefits of, 38-41
from customer’s viewpoint, 36-37
business rationale for infographics, 12-13
aesthetics, 16-17
ease of use, 12-15
shareability, 15
of geography, 69-71
of hierarchies, 42
conceptual hierarchies, 44-46
organizational structures, 42-43
pricing structures, 44-45
of ideas and concepts, 26
with cartoons, 30-33
conceptual hierarchies, 44-46
with visual metaphors, 27-29
of organization’s personality, 57-58
brand humanization, 58-60
visual resumes, 60-64
of relationships, 47
business models, 49-54
systems thinking, 47-49
of statistics, 21
benefits of, 24-25
risks of, 25-26
telling stories with, 22-24
science of, 7, 10-11
decision-making, infographics and, 154
Delicious, 89
Design by Soap, 118, 182
designing infographics
critics of, 99
DIY model, 100-103
consideration phase, 103-104
inspiration phase, 105-107
perspiration phase, 107-108
outsourcing model, 108
pricing, 117-118
professional design firms, 109-113
reasons for following, 108
student designers, 114-115
tips for hiring designers, 115-117
DeTorres, Carl, 185
Dewar, Tammy, 58
Diagram.ly, 175
digital data, effect on attention spans, 12-15
Diigo, 89
DIY Chart, 175
DIY model of infographic design, 100-103
consideration phase, 103-104
inspiration phase, 105-107
perspiration phase, 107-108
documenting ideas, 87
on bookmarking sites, 89-90
inherent artistic ability for, 87-88
on mobile devices, 90
on paper, 89
Duarte, Nancy, 181
Dynamic Diagrams, 182

E

ease of use of infographics, 12-15
Edison, Thomas, 103
Eloqua, 143-148
email (infographics promotion), 149
embed code (infographics promotion), 149
employees (audience type), 78
engagement metrics, 162
entertainment (objective type), 80
Envisioning Information (Tufte), 180
Evernote, 89
exchanging ideas, infographics and, 155
extended reach metrics, 161
external communication, infographics for, 5

F

Facebook, 128-129, 151
Falls, Jason, 15, 38
Fast Company’s Infographic of the Day, 105
Fathom, 183
Few, Stephen, 181, 187
FFunction, 183
filtering for novelty, 11
Fishburne, Tom, 30, 33
Flickr, 129-131
Flowing Data, 106
FrameConcepts, 187
Franchi, Francesco, 185
freelance designers, 118, 184-186
future of visual resumes, 64

G

Garrett, Jesse James, 139
geography (information category), 5
visualization of, 69-71
GIMP, 176
Gliffy, 176
Golden Section Graphics, 183
Good magazine, 106
Google+, 151
Google Bookmarks, 90
Graph Design for the Eye and Mind (Kosslyn), 180
graphs, 168-170
Gray, Dave, 180, 187
{grow} marketing blog, 60

H

Harding, Mike, 63-64
Harnden, Andrew, 52
Harris, Robert L., 180
Harvard Business School Citation Guide, 97
hierarchy (information category), 5
  visualization of, 42
    conceptual hierarchies, 44-46
    organizational structures, 42-43
    pricing structures, 44-45

hiring designers
  tips for, 115-117
  websites for finding designers, 181-187

history
  of infographics, 6-8
  visualization of, 65-68

Hohli, 176

Holmes, Nigel, 5

home bases (publishing infographics), 122
  blogs, 122-123
  intranets, 126
  outposts versus, 120
  websites, 124-125

Horn, Paul, 185

Horn, Robert E., 181

Hothouse Design, 183

how? questions (information synthesis), 97

humanization of brand, 58-60

Hyperakt, 183

icons, 166-167, 174

ideas (information category), 5
  exchanging, infographics and, 155
  info-synthesis stage, 90-94
    5W1H questions, 94-98
  recording, 87
    on bookmarking sites, 89-90
    inherent artistic ability for, 87-88
    on mobile devices, 90
    on paper, 89

visualization of, 26
  with cartoons, 30-33
  conceptual hierarchies, 44-46
  with visual metaphors, 27-29

inbound links, 162

industry information chronology, 67

Info Graphics (Flickr group), 106

Infographic of the Day, 105

infographic resumes, 60-64

Infographic Site Dot Com, 132

infographics. See also data visualization
  books for information, 179-181
  as brand communication tool, 137
    business value of, 138
    content marketing, 139-142
    Eloqua example, 143-148
    Kronos example, 141
    in marketing communication, 138
    promoting infographics, 148-153
  business rationale for, 5, 12-13
    aesthetics, 16-17
    ease of use, 12-15
    shareability, 15
  defined, 3-5
  designing
    critics of, 99
    DIY model, 100-108
    outsourcing model, 108-118
  effectiveness of, 138
  history of, 6-8
  info-synthesis stage, 90-94
    5W1H questions, 94-98
  internal communication uses, 153-155
  limitations, 52
  planning, 75
    audiences for, 76-79
    learning to observe, 82-85
    objectives for, 79-82
INDEX | infographics

processing time versus text, 7, 10

publishing
  offline channels, 133
  online channels, 120-132

ROI (return on investment), 104, 157-160
  activation and conversion metrics, 163
  awareness metrics, 161-162
  engagement metrics, 162
  intangible benefits, 163-164

SEO (search engine optimization) and, 148

tools for creating, 175-179
visual elements for, 165-174

The Infographics blog, 132
Infographics Showcase, 132
Info Monkeys, 118
InfoNewt, 183

information, 5
  exchanging, infographics and, 155
  info-synthesis stage, 90-94
    5W1H questions, 94-98
recording, 87
  on bookmarking sites, 89-90
  inherent artistic ability for, 87-88
  on mobile devices, 90
  on paper, 89
visualization of, 26
  with cartoons, 30-33
  conceptual hierarchies, 44-46
  with visual metaphors, 27-29

information architecture (visualizing data), 3.
See also infographics
  of business process, 35
    benefits of, 38-41
    from customer’s viewpoint, 37
  of chronology, 65-68
  of geography, 69-71
  of hierarchies, 42
    conceptual hierarchies, 44-46
    organizational structures, 42-43
    pricing structures, 44-45
  of ideas and concepts, 26
    with cartoons, 30-33
    with visual metaphors, 27-29
  of organization’s personality, 57-58
    brand humanization, 58-60
    visual resumes, 60-64
  of relationships, 47
    business models, 49-54
    systems thinking, 47-49
  of statistics, 21
    benefits of, 24-25
    risks of, 25-26
    telling stories with, 22-24
science of, 7, 10-11

information designer websites, 181-187
information design. See data visualization

Information Graphics: A Comprehensive Illustrated Reference (Harris), 180

Information is Beautiful, 106

Information Visualization: Perception for Design (Ware), 180

info-synthesis stage, 90-94
  5W1H questions, 94-98
    how?, 97
    what?, 94-96
    when?, 96
    where?, 96-97
    who?, 94
    why?, 97

inherent artistic ability, 87-88

in-house infographic design, 100-103
  consideration phase, 103-104
  inspiration phase, 105-107
  perspiration phase, 107-108

Inkscape, 176

inspiration for infographics, thanking, 152

inspiration phase (DIY model of infographic design), 105-107
intangible benefits of infographics, 163-164
Interactive Things, 184
internal communication with infographics, 5, 153-155
intranets, 126

J–K

cognition, 82

cognitive dissonance, 11

Many Eyes, 177
maps, 69-71
marketing communication
content marketing, 139-142
Eloqua example, 143-148
Kronos example, 141
infographics in, 138
Marks and Meaning (Gray), 180
mashups, infographics promotion, 149-151
McCandless, David, 7, 88, 106, 186
media (audience type), 78
Meerman Scott, David, 58
metaphors, visual, 27-29
metrics, ROI (return on investment), 157-160
activation and conversion metrics, 163
awareness metrics, 161-162
engagement metrics, 162
intangible benefits, 163-164
Microsoft Publisher, 177-179
mobile devices, recording ideas on, 90

N

netiquette for infographic sources, 152
Nielsen, Jakob, 12
The Noun Project, 178-179
novelty, filtering in brain for, 11
Now You See It: Simple Visualization Techniques for Quantitative Analysis (Few), 181

O

objectives for infographics, 79-82
observation, learning art of, 82
listening, 83-85
seeing, 82-83
offline publishing channels, 133
online publishing channels, 120-121
  home bases, 122
    blogs, 122-123
    intranets, 126
  outposts versus, 120
  websites, 124-125
outposts, 126
  Facebook, 128-129
  Flickr, 129-131
  home bases versus, 120
  third-party blogs, 127-128
  websites, 132
Open Clipart Library, 178
organizational structures, visualization of, 42-43
Osterwalder, Alexander, 49
outposts (publishing infographics), 126
  Facebook, 128-129
  Flickr, 129-131
  home bases versus, 120
  third-party blogs, 127-128
  websites, 132
outsourcing model of infographic design, 108
  pricing, 117-118
  professional design firms, 109-113
  reasons for following, 108
  student designers, 114-115
  tips for hiring designers, 115-117
  websites for finding designers, 181-187

personality of organization (information category), 5
  visualization of, 57-58
    brand humanization, 58-60
    visual resumes, 60-64
perspiration phase (DIY model of infographic design), 107-108
Pierre, Sebastien, 183
Pinboard, 90
Pinterest, 106
planning infographics, 75
  audiences for, 76-79
  learning to observe, 82-85
  objectives for, 79-82
Posavec, Stefanie, 186
Potenza, Gavin, 186
preparation. See planning infographics
press releases (infographics promotion), 151
  pricing
    for infographics, 117-118
    structures, visualization of, 44-45
process (information category), 5
  visualization of, 35
    benefits of, 38-41
    from customer’s viewpoint, 37
processing information, learning styles for, 11
processing time for text versus infographics, 7, 10
product chronology, 67
professional design firms, reasons for hiring, 109-113
project schedule chronology, 67-68
promoting infographics, 148-153
prospects (audience type), 78

---------

page views, 162
paper, recording ideas on, 89
partners (audience type), 78
Perceptual Edge, 187
INDEX sources of infographics

publishing infographics
  offline channels, 133
  online channels, 120-121
    home bases, 122-126
    home bases versus outposts, 120
    outposts, 126-132

Pulizzi, Joe, 153

purpose of infographics
  audience, understanding, 77-79
  objectives, setting, 79-82

Q–R

Quora, 152

read/write learners, 11

recording ideas, 87
  on bookmarking sites, 89-90
  inherent artistic ability for, 87-88
  on mobile devices, 90
  on paper, 89

relationships (information category), 5
  visualization of, 47
    business models, 49-54
    systems thinking, 47-49

researching
  audience social media preferences, 119
  infographic design techniques, 107

resource availability for DIY infographics, 104

resources for information
  books, 179-181
  information designer websites, 181-187
  tools websites, 175-179

resumes, visual, 60-64

re.vu infographic resume site, 63

Roam, Dan, 179

Robbins, Naomi B., 179

ROI (return on investment), 104, 157-160
  activation and conversion metrics, 163
  awareness metrics, 161-162
  engagement metrics, 162
  intangible benefits, 163-164

S

sampling, effect on data accuracy, 25-26
Schaefer, Mark, 60

Schield, Milo, 25

science of visualization, 7, 10-11

scope creep, 52

search engine optimization (SEO), 123
  infographics and, 148

search metrics, 162

seeing world around you, 82-83

SEO (search engine optimization), 123
  infographics and, 148

SEO ranking, 162

service chronology, 67

shareability of infographics, 15

SketchBookX, 90

slide:ology: The Art and Science of Creating Great Presentations (Duarte), 181

SmartArt, 178

SmartDraw, 177

SMART objectives, 80-82

social media
  infographics promotion, 151-152
  researching audience preferences, 119

Social Media Explorer, 127

social sharing metrics, 162

sources of infographics
  netiquette, 152
  thanking, 152
sources of information
crediting, 97
importance of, 96
Souza, Laura Shea, 141
Spencer, Neilson, 107
Stamen, 184
statistical literacy, 25
statistics (information category), 5
visualization of, 21
benefits of, 24-25
risks of, 25-26
telling stories with, 22-24
StatPlanet, 177
Stefaner, Moritz, 186
story-telling with statistical infographics, 22-24
student designers
hiring, 114-115
pricing, 118
studying infographic design techniques, 107
submissions, infographics promotion, 152
subscriber metrics, 162
synthesizing information, 90-94
5W1H questions, 94-98
how?, 97
what?, 94-96
when?, 96
where?, 96-97
who?, 94
why?, 97
systems thinking, visualization of, 47-49

text, processing time versus infographics, 7, 10
thanking sources of infographics, 152
third-party blogs, 127-128
thought leadership (objective type), 80
thoughts and ideas
exchanging, infographics and, 155
info-synthesis stage, 90-94
5W1H questions, 94-98
recording, 87
on bookmarking sites, 89-90
inherent artistic ability for, 87-88
on mobile devices, 90
on paper, 89
visualization of, 26
with cartoons, 30-33
conceptual hierarchies, 44-46
with visual metaphors, 27-29
“Time Well Spent” cartoon, 33
timelines, 65-68
time required to accurately process data, 26
tools for infographics creation, 175-179
testing, 108
traffic (objective type), 80
training, infographics and, 38, 154
Tufte, Edward R., 180
Twitter, 151

U–V
uniqueness, filtering in brain for, 11
VARK model, visual learning, 11
visual elements for infographics, 165-174
visualization of data, 3. See also infographics
of business process, 35
benefits of, 38-41
from customer’s viewpoint, 37
of chronology, 65-68

T
Tablet, 186
technology, role in communication
methods, 12
testing tools, 108
of geography, 69-71
of hierarchies, 42
   conceptual hierarchies, 44-46
   organizational structures, 42-43
   pricing structures, 44-45
of ideas and concepts, 26
   with cartoons, 30-33
   with visual metaphors, 27-29
of organization’s personality, 57-58
   brand humanization, 58-60
   visual resumes, 60-64
of relationships, 47
   business models, 49-54
   systems thinking, 47-49
of statistics, 21
   benefits of, 24-25
   risks of, 25-26
   telling stories with, 22-24
science of, 7-11
Visual Language: Global Communication for the 21st Century (Horn), 181
visual learners, 11
visual.ly, 107, 132, 177
visual metaphors, 27-29
visual resumes, 60-64
VOI (value of infographics), 159-160
   activation and conversion metrics, 163
   awareness metrics, 161-162
   engagement metrics, 162
   intangible benefits, 163-164

W–Z

Ware, Colin, 180
Weaver, Tyler, 88
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