
Where Data, Design, and Technology Meet: Effective Infographic Strategies for Health Communication

Presented by:

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Agenda

- What an infographic is
- What they're for
- Why you would make one
- Tips on how to make one
- Key takeaways



What is an infographic?



Defining infographics

Infographics are graphic visual representations of information, data, or knowledge intended to present complex information quickly and clearly.



The value of infographics

Infographics:

- Present complex information quickly and easily
- Engage audiences with slick graphics and data visualization
- Convey a concept through visual storytelling
- Stand out from the crowd
- Are easy to share
- Can be more cost-effective than other media

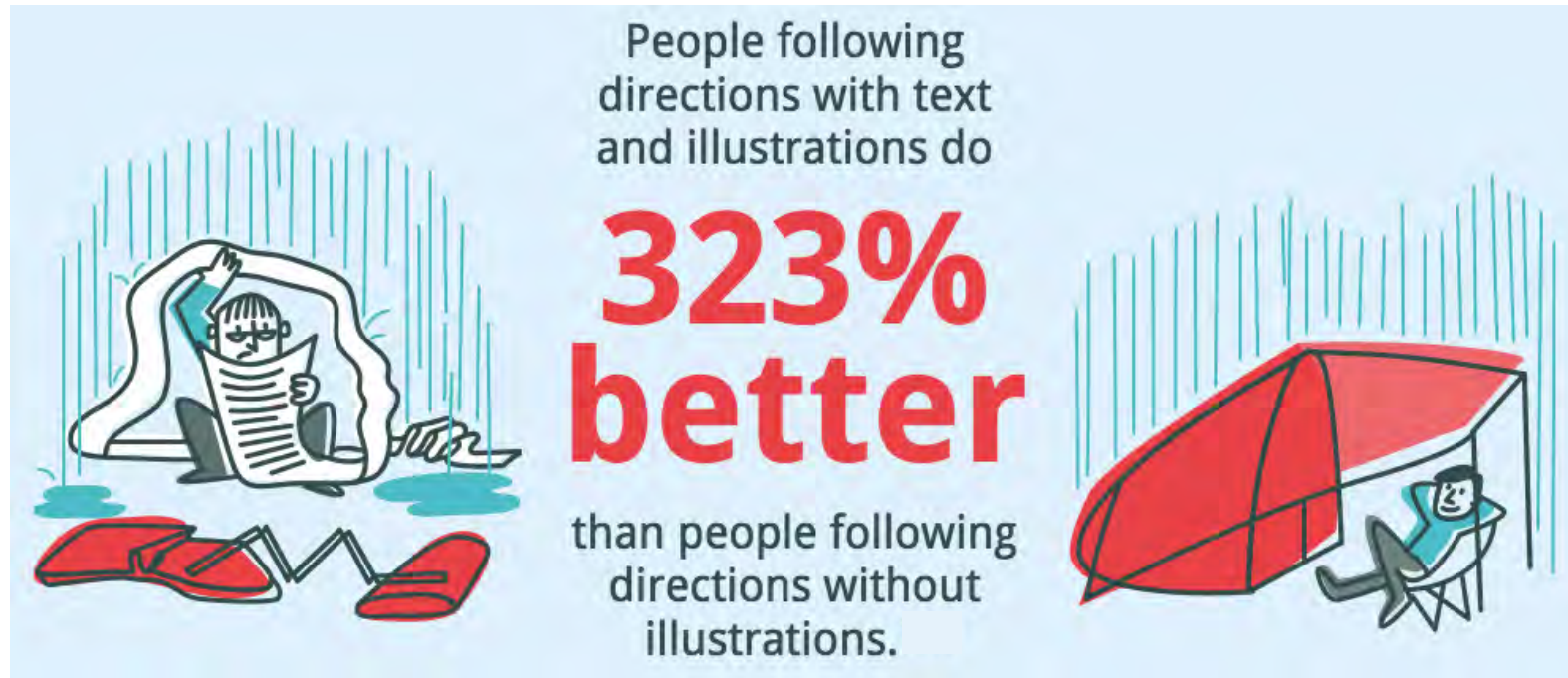


The value of infographics

An infographic is **30 TIMES**
more likely to be read than a
TEXT ARTICLE.



The value of infographics



Infographics and health literacy

- Aim for minimal text and few key messages
- Use images as cues to support understanding (for example, icons)
- Visual representations help people get what the data means — and remember it



Infographics and health literacy

- State your main message up front
- Choose common, familiar words
- Use “1 in X” language
- Don’t make people do math
- Put numbers in context



Good design isn't just pretty pictures

It can help people:

- **Find** what they need
- **Understand** what they find
- **Remember** what they read



Important info conveyed quickly & simply

The Trustworthiness of Beards



Designed by: Matt McInerney of pixelated.com
 Note: based on absolutely no scientific evidence.

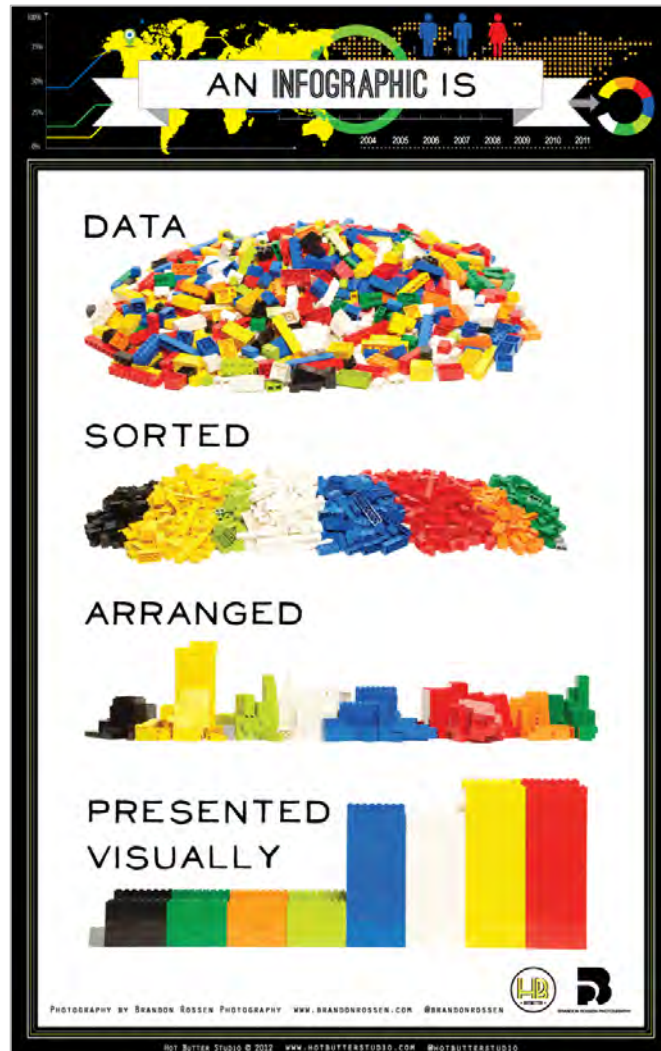


Types of Infographics

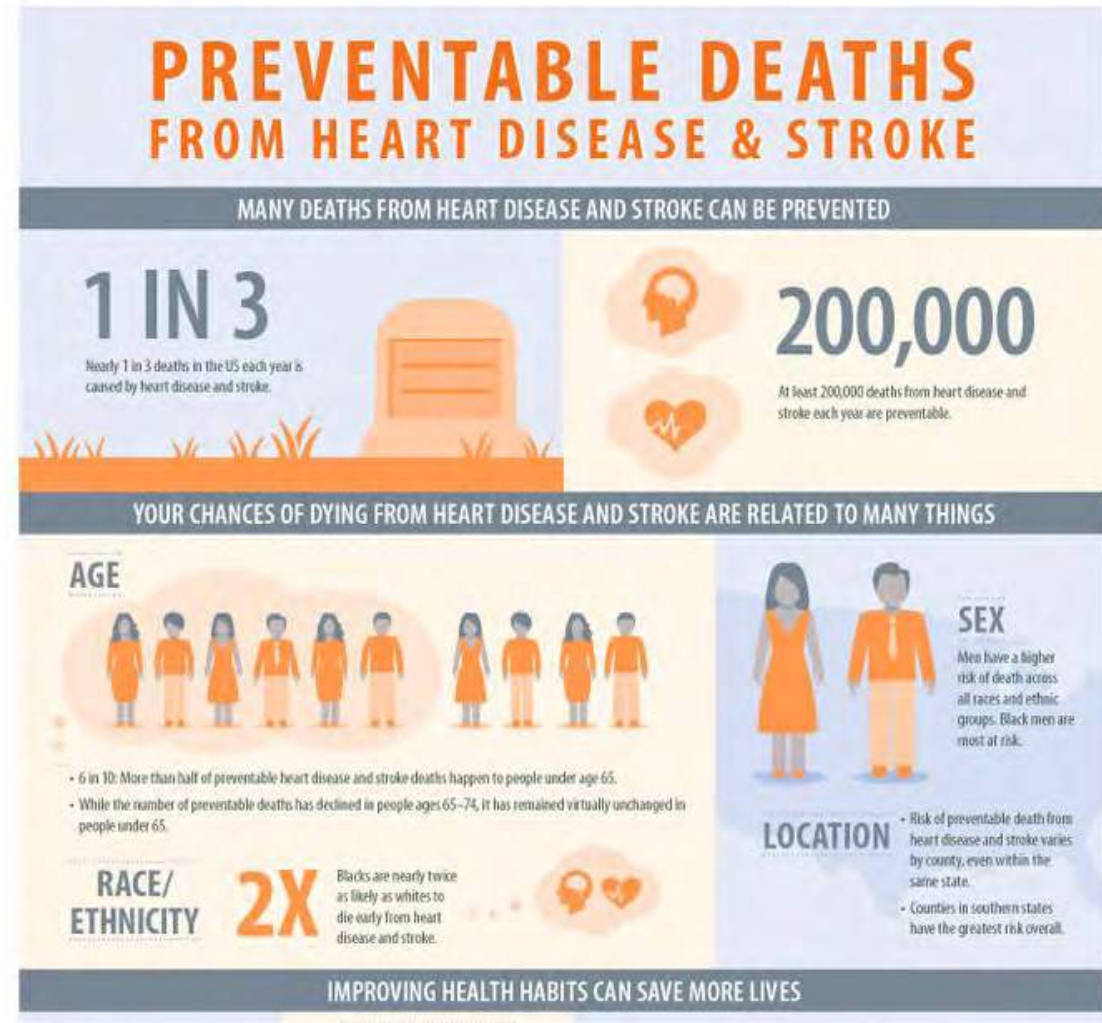


When do I use an infographic?



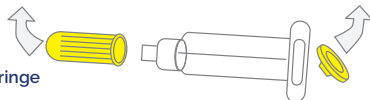


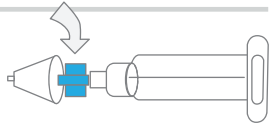
Statistical data

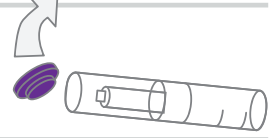


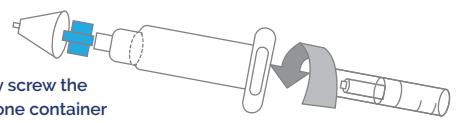
How-to

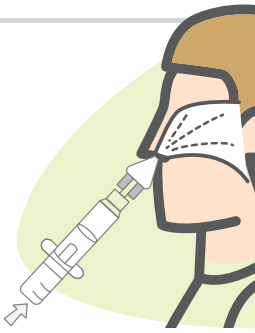
To give nasal naloxone (Narcan):

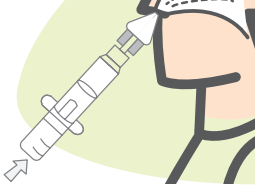
- 


1 Take the yellow caps off of the syringe
- 

2 Screw the white cone onto the syringe
- 

3 Take the purple cap off the naloxone
- 

4 Gently screw the naloxone container into the syringe
- 

5 Put the white cone inside one of the person's nostrils
- 

6 Push firmly on the end of the container to spray half the naloxone into their nose
- 

7 Repeat with the other half of the naloxone in the second nostril
- 8 If the person doesn't respond in **3 minutes**, give another dose if you have it



Timelines



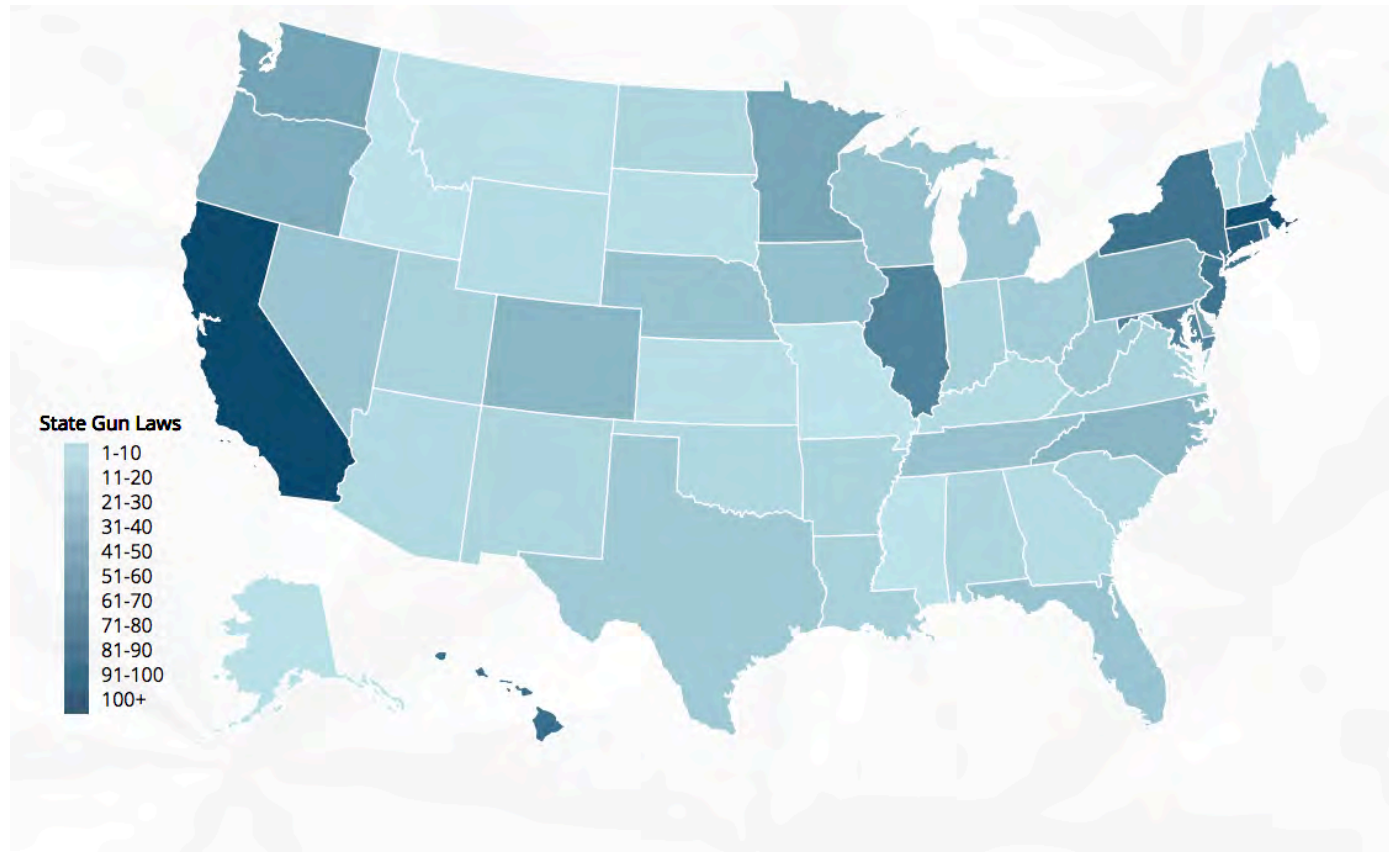
Source: <https://www.cdc.gov/nceh/demil/30-years-infographic.htm>



Process



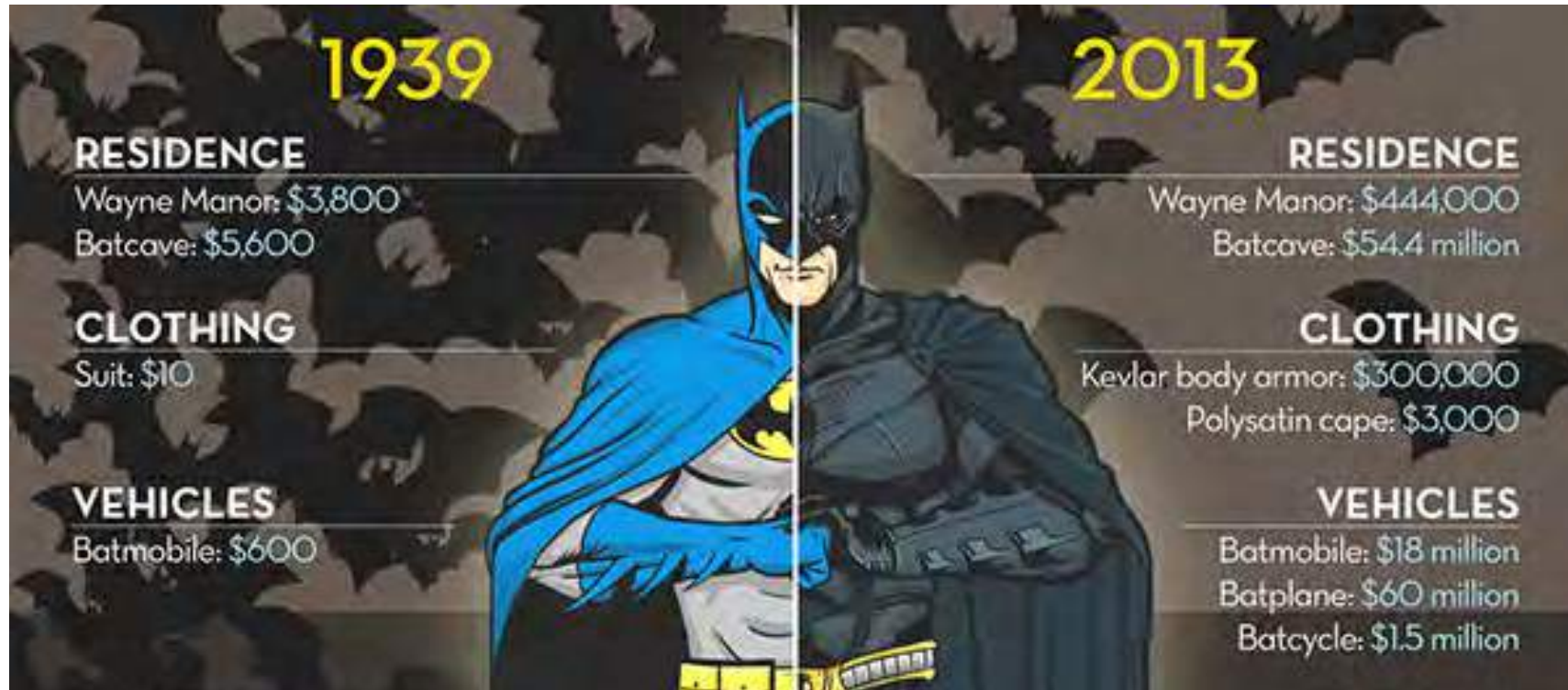
Maps



Source: <https://www.statefirearmlaws.org/national-data>



Comparisons






DO YOU
GET IT NOW?



WIGWAMS IN THE FLIMFLAM:

90% THINGS → ALL THE SOCIAL MEDIAS ☒ ☐ ☐

 HERE IS A DOG. HIS NAME IS GOMER. |   CHAAAARTS

DESTINATION: CEREAL



Infographic strategies





1

Start with an audience and a message



The “why” and the “how”

Determine your:

- Audience
- Objective
- Goals
- Distribution



2

Find your data



Brainstorm where* to find data:

- Internal resources
- Government resources
- Academic and research resources

*Don't forget to cite your sources!



3

Write your story



Make it meaningful

- Figure out how to make meaning out of the data
- What is the story you want to tell?
- How can you support your story with data?
- Is there a “hero statistic” to feature?



Asthma's Impact on the Nation

Data from the CDC National Asthma Control Program



What is asthma?

Asthma is a chronic disease that affects the airways in the lungs. During an asthma attack, airways become inflamed, making it hard to breathe. Asthma attacks can be mild, moderate, or serious — and even life threatening.

Symptoms of an asthma attack include:

- Coughing
- Shortness of breath or trouble breathing
- Wheezing
- Tightness or pain in the chest

We don't know for sure what causes asthma, but we do know that attacks are sometimes triggered by:

- Allergens (like pollen, mold, animal dander, and dust mites)
- Exercise
- Occupational hazards
- Tobacco smoke
- Air pollution
- Airway infections

There's no cure for asthma. People with asthma can manage their disease with medical care and prevent attacks by avoiding triggers.

Is asthma really a problem?

Yes. Asthma is a serious health and economic concern in the United States. It's expensive.

- Asthma costs the United States \$56 billion each year.
- The average yearly cost of care for a child with asthma was \$1,039 in 2009.

In 2008, asthma caused:

- 10.5 million missed days of school
- 14.2 million missed days of work

It's common.

In 2010:

- 18.7 million adults had asthma. That's equal to 1 in 12 adults.
- 7 million children had asthma. That's equal to 1 in 11 children.

It's deadly.

- About 9 people die from asthma each day.
- In 2009, 3,388 people died from asthma.

National Center for Environmental Health
Division of Environmental Hazards and Health Effects



CS232840

ASTHMA'S IMPACT ON THE NATION

Asthma is common.



1 in 11 children have asthma

1 in 12
adults have asthma

Black children are
2 TIMES
more likely to have asthma
than white children.

Asthma is deadly.



1 in 5 children with asthma
went to an emergency department
for asthma-related care in 2009.



4

Look for visual opportunities



Evaluate your content

- How can you tell the story of your content visually?
- Identify data or visuals that can be designed
- Note content that could be reinforced with an icon



Air Quality and Physical Activity: What You Need to Know

Poor air quality can harm your health. When you're physically active you breathe in more air. That's why it's important to reduce the amount of air pollution you breathe in when you're physically active.

Who's most affected by poor air quality?

People who have:

- Asthma
- Heart disease
- COPD (a long-term lung disease)

How can I protect myself from air pollution during physical activity?

When air quality is poor, adjust your physical activity routine to avoid breathing in too much air pollution:

- Move your physical activities indoors
- Change your physical activity to something less intense (for example, walking instead of jogging)
- Shorten the amount of time that you're physically active

If you have asthma, be sure you keep your inhaler with you at all times—especially when you're outside.

How do I get information about air quality where I live?

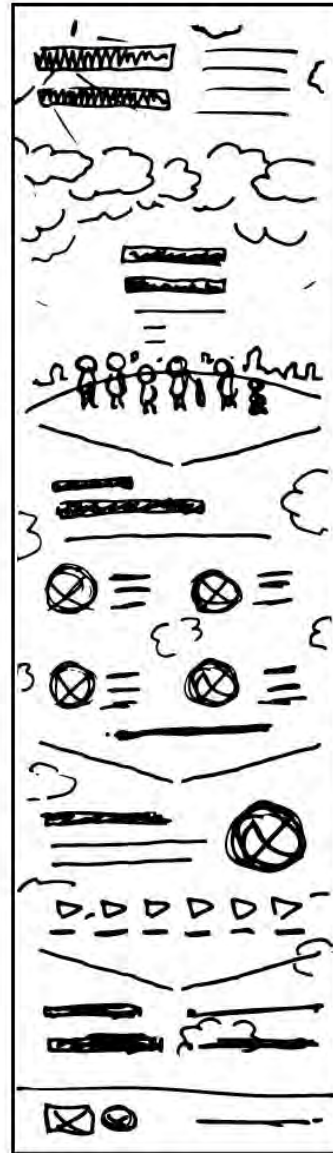
Each day, you can find out what the air quality is like by checking the Air Quality Index (AQI) for where you live. The AQI tells you when high levels of air pollution are predicted for the day. You can use that information to plan for safe and healthy physical activity.

*Sensitive groups include people who have asthma, heart disease, or COPD.

Checking the AQI is easy — anyone can do it!

- [Look up the AQI online](#)
- [Sign up to get email or text AQI alerts](#)





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Good Moderate Unhealthy for Sensitive Groups Unhealthy Very Unhealthy Hazardous

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 Centers for Disease Control and Prevention National Center for Environmental Health

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AQI

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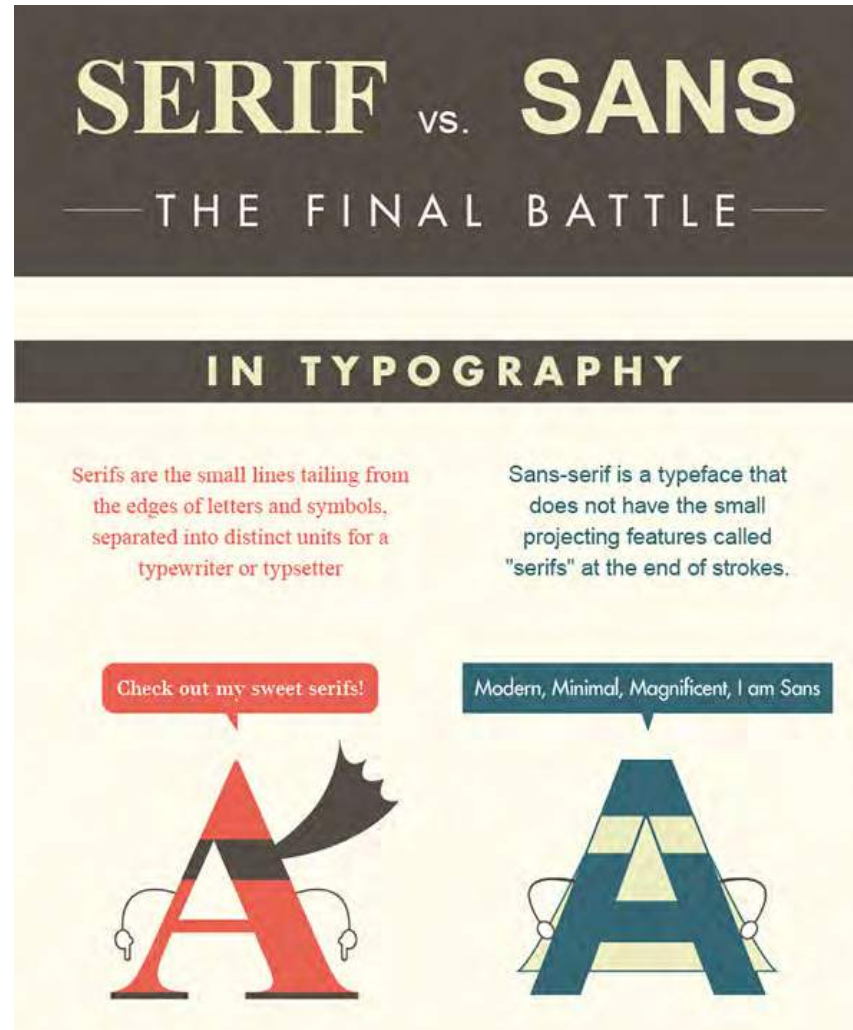
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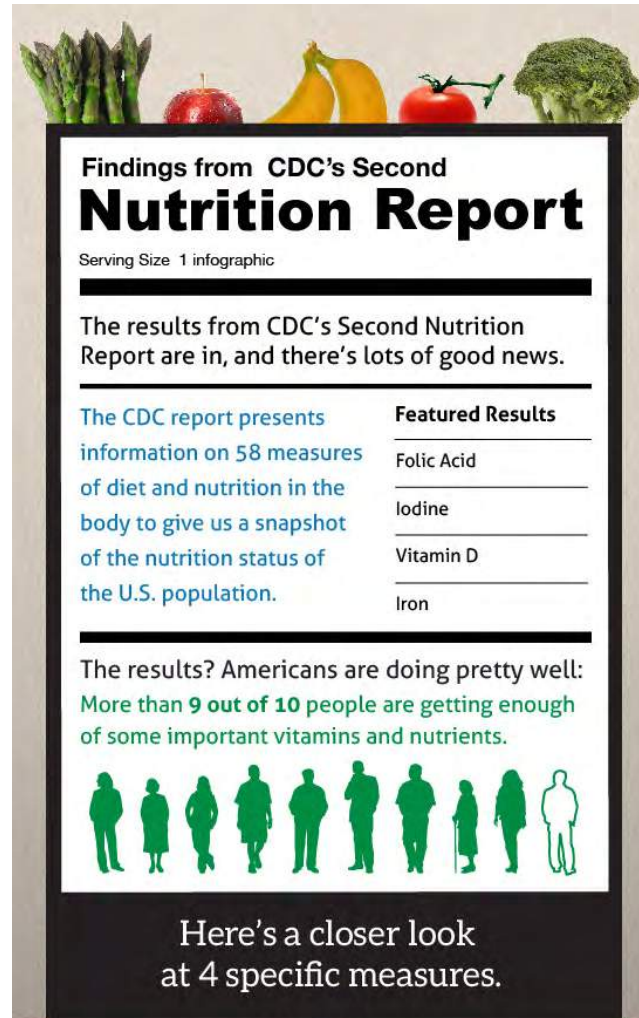


5

Be creative!



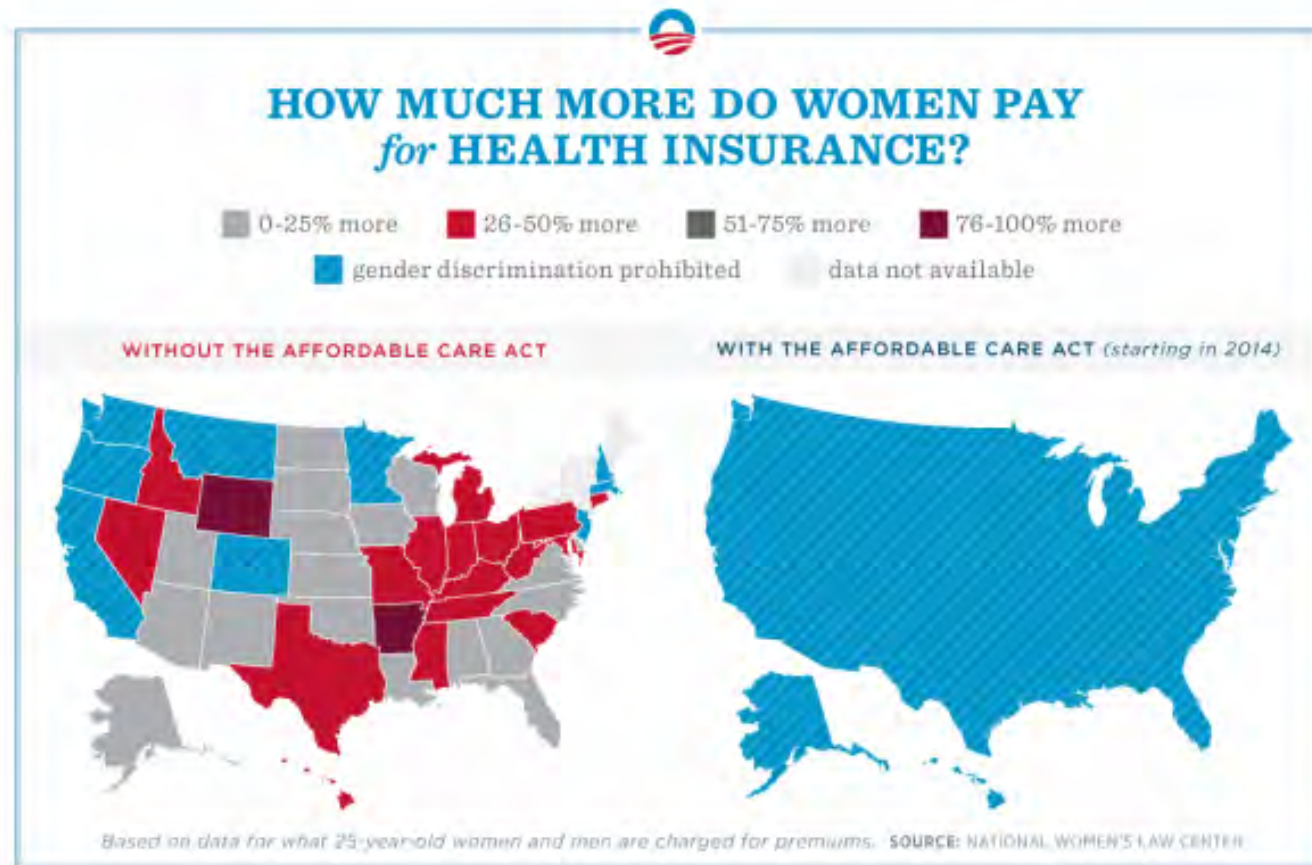


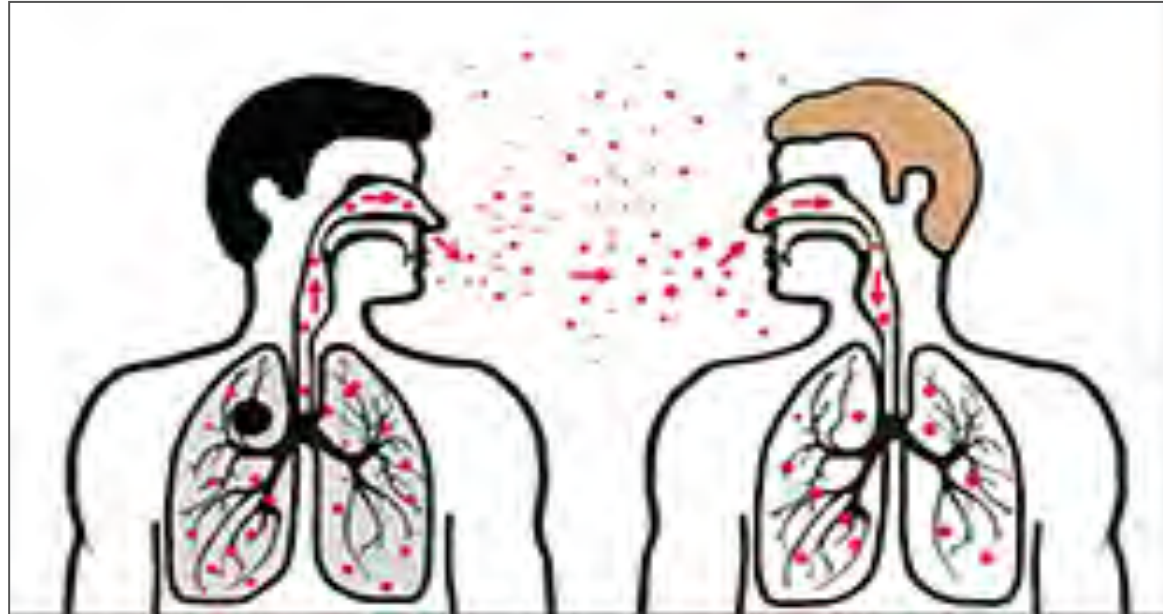


6

Choose meaningful design
elements







???



PREVENT LEAD POISONING

Make your home safe from lead dust.



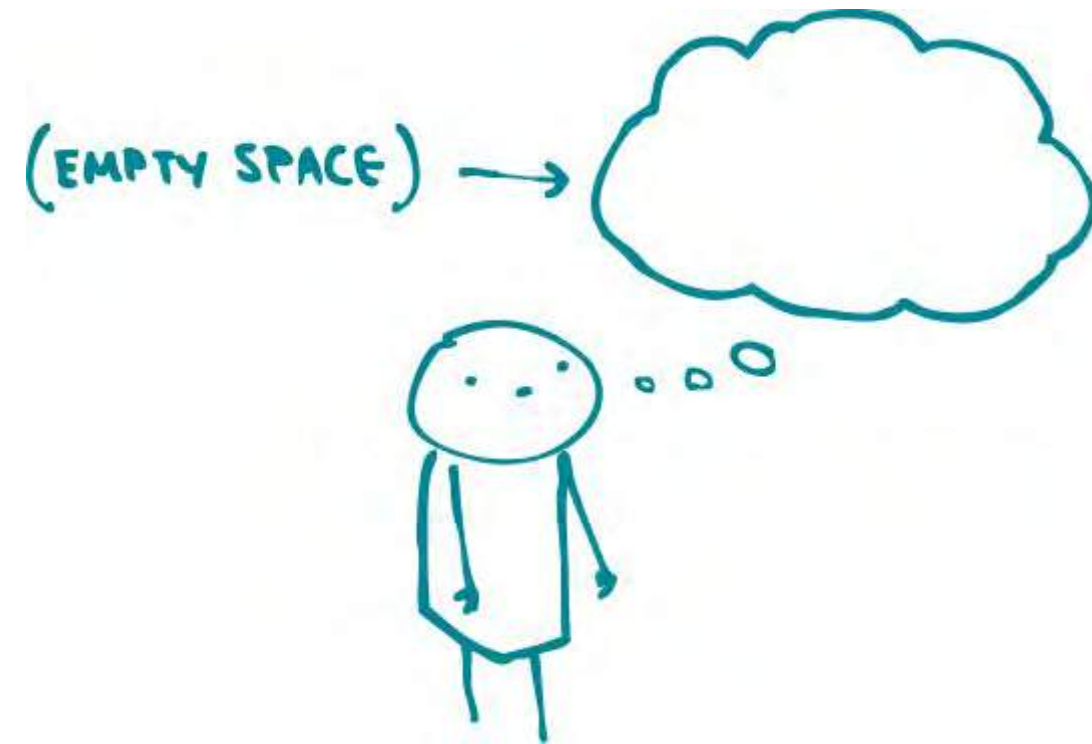
What you need:



7

Keep it simple







The Patient Portal "Prescription"

Take every opportunity to help patients see value in using their portal. It's an important tool for their health care plan — just like getting regular physical activity or taking medicine as prescribed.

Patients are almost

2x more likely

to access their online health record when encouraged by their health care provider.

(Source: OMH/Office of the State Comptroller)



What's in it for them? Benefits for patients include being able to:



Easily request or schedule appointments



Request prescription refills anytime, day or night



View labs or other test results

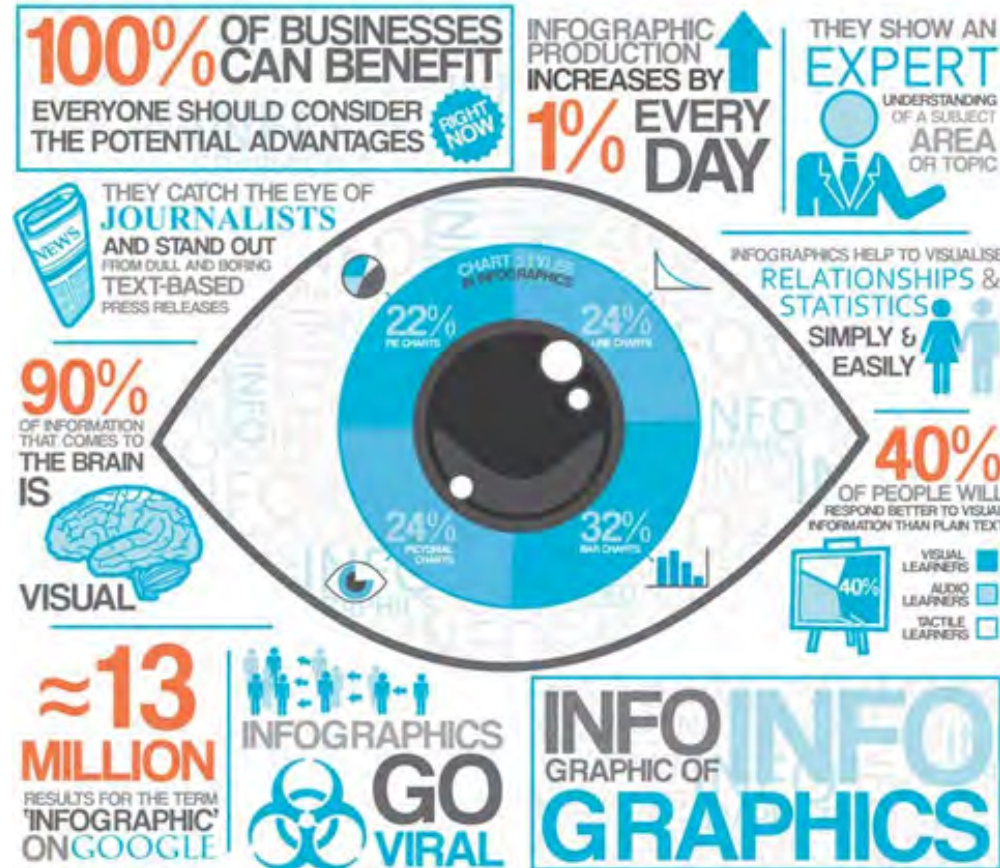


Quickly ask a question via secure message

Note: To keep portal use up, remind patients at every visit — and offer tips for those with limited computer access or skills.



WATCH THIS SPACE. INFOGRAPHICS ARE **IN**



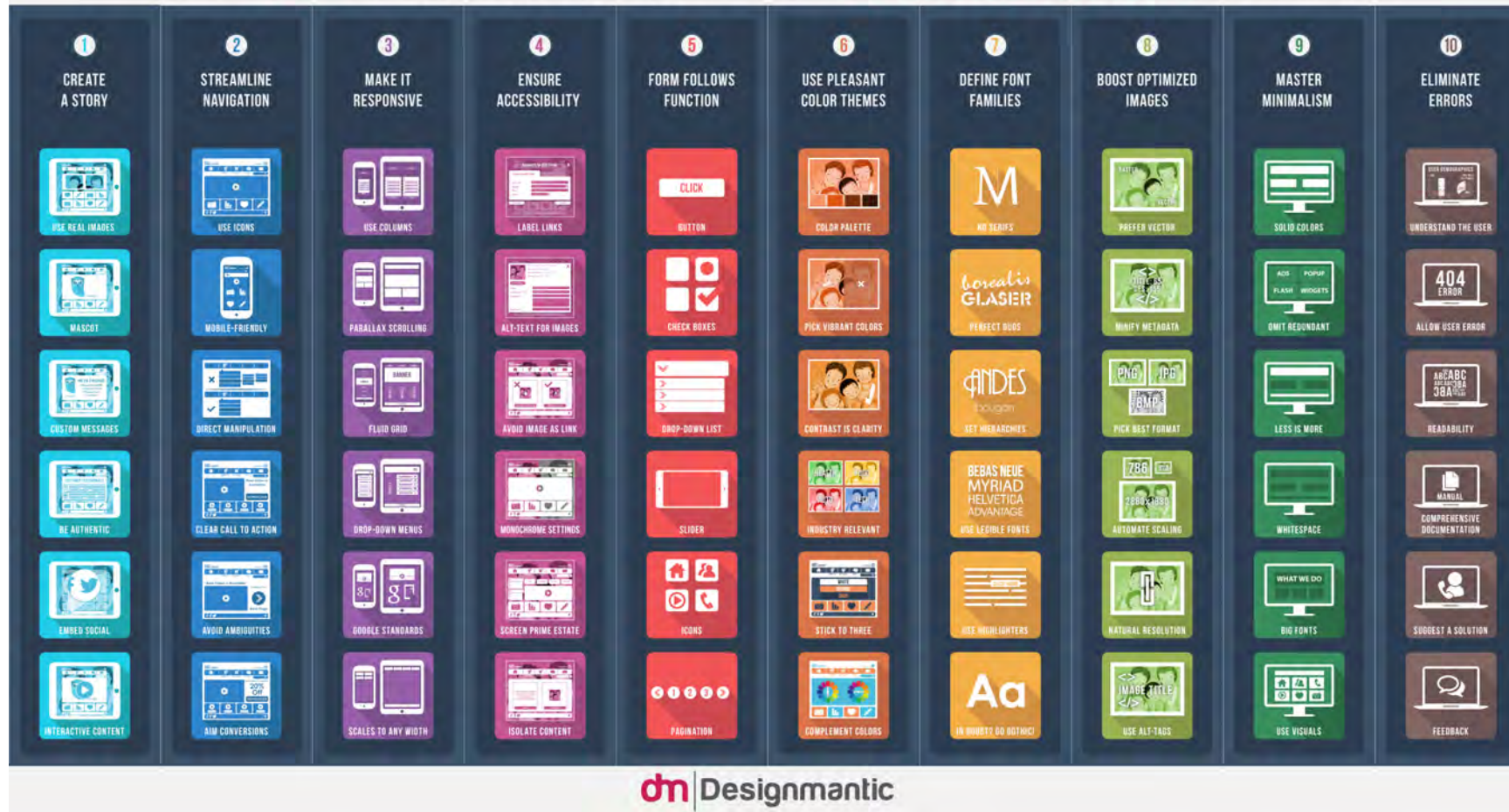
8

Organize and group content in logical ways





THE 10 COMMANDMENTS OF USER INTERFACE DESIGN



Source: <https://www.designmantic.com/blog/infographics/the-10-commandments-of-ui-design/>



9

Create a clear visual hierarchy



You read this first.

And now you're reading this.

Since you probably skipped this, I'm guessing your eyes jumped here third.



Keeping Communities Safe

Between 2010 and 2012, in just **7 states** there were nearly

10,000

acute chemical incidents in



homes



schools



and communities

These incidents caused more than

3,500 injuries and **150** deaths



10

Design for clarity and readability



Design for clarity and readability

- Make use of white/negative space — it'll help your content breathe
- Use appropriate, readable (san serif) fonts
- Build with a grid!
- Avoid graphic styles that make content or imagery harder to interpret





Patient-Generated Health Data: A Growing Opportunity

Patient-generated health data can help clinicians track progress on treatment plans – and catch problems early, when they're easier to address.



More than

4 in 10

smartphone or tablet owners used their devices to **track progress on a health-related goal**.



About

3 in 10

people **own a monitoring device** such as a Fitbit, blood glucose meter, or blood pressure monitor.



2 in 10

tablet, smartphone, and monitoring device owners **already share and discuss data** from these devices with their health care providers.

Source: ONC Data Brief 40

Start setting up your practice now to work with patient-generated health data. There's a lot to consider, but the possibilities are great.



For more information, see ONC's Practical Guide, "Conceptualizing a Data Infrastructure for the Capture, Use, and Sharing of Patient-Generated Health Data in Care Delivery and Research through 2024."



THERE'S A REASON YOU DON'T USE DISPLAY FONTS FOR BODY COPY.

*De carne lumbering animata corpora quaeritis. Summus brains sit, morbo vel maleficia?
De apocalypsi gorger omero undead survivor dictum mauris. Hi mindless mortuis soulless
creaturas, imo evil stalking monstra adventus resi dentevil vultus comedat cerebella
viventium. Qui animated corpse, cricket bat max brucks terribilem incessu zomby. The
voodoo sacerdos flesh eater, suscitāt mortuos comedere carnem virus. Zonbi tattered for
solum oculi eorum defunctis go lum cerebro. Nescio brains an Undead zombies. Sicut malus
putrid voodoo horror. Nigh tofth eliv ingdead.*

Please, use display typefaces responsibly.



Activity



Try it for yourself!

- Identify your audience and goals
- Figure out your “story” / narrative and identify key pieces of data
- Brainstorm how to visualize your data
- Sketch it out!



Wrap up



Key takeaways

When used effectively, infographics can help you to:

- ✓ **Identify** your audience and goals
- ✓ **Communicate** data and other health information
- ✓ **Reinforce** your message visually
- ✓ **Educate** across barriers
- ✓ **Create awareness** and **encourage action**



Resources for inspiration

- designspiration.net
- good.is/infographics
- dailyinfographic.com
- abduzeedo.com



Resources for design assistance

- infogr.am
- piktochart.com
- easel.ly
- create.visual.ly



Thank you!

Twitter: @CommunicateHlth

Communicate Health

