# SPEAK VISUALLY:

HOW TO USE VISUAL COMMUNICATION TO TELL YOUR RESEARCH STORY

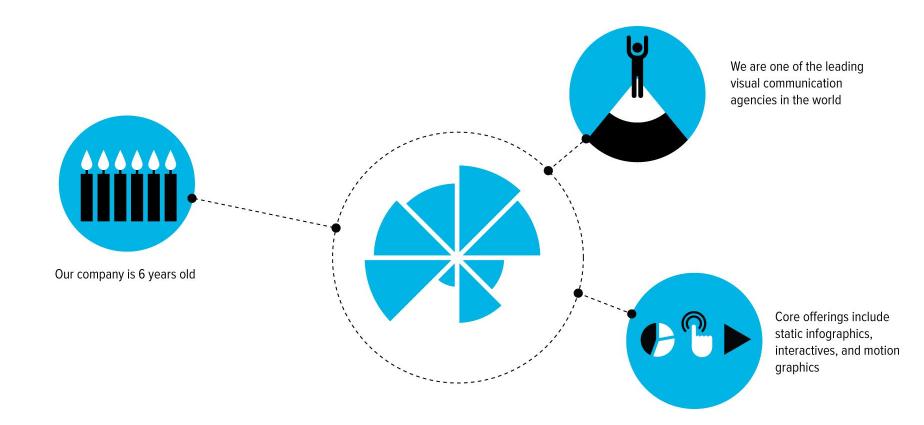


## **AMY BALLIETT**

Killer Infographics

CEO & Chief Swiss Army Knife
amy@killerinfographics.com



































BILL&MELINDA















GATES foundation

\*\*\* BlackBerry.













'Club Med 1.

Credit O Karma













**Udemandware** 























































































































































































# PART 1:

WHAT IS VISUAL COMMUNICATION & WHY DOES IT MATTER?



## VISUAL COMMUNICATION

graphically represents information to efficiently and effectively create meaning.

When necessary, limited text is included to explicate the meaning.











On average, press releases with visuals receive

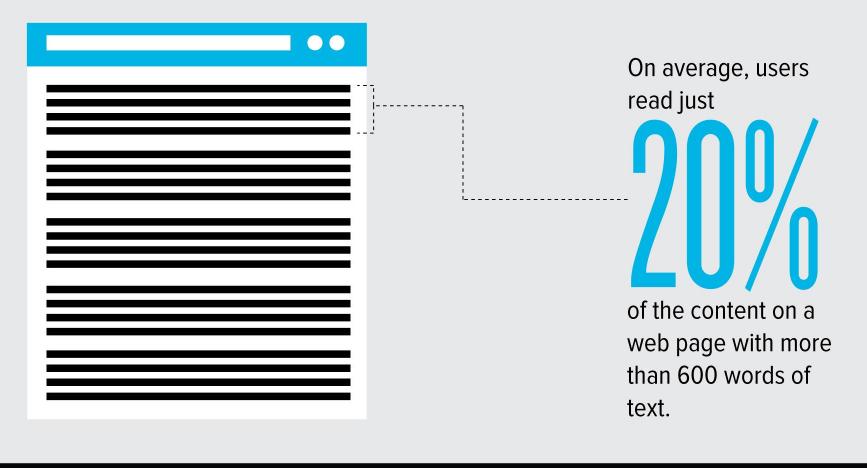
#### **77% MORE VISITORS**

than those without











Visual information gets to the brain

## **60,000 TIMES FASTER**

than text



of information transmitted to the brain is visual

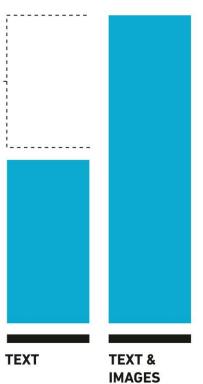


# VISUALS COMMUNICATE INFORMATION FASTER THAN WORDS





Text paired with images improves comprehension by







# 

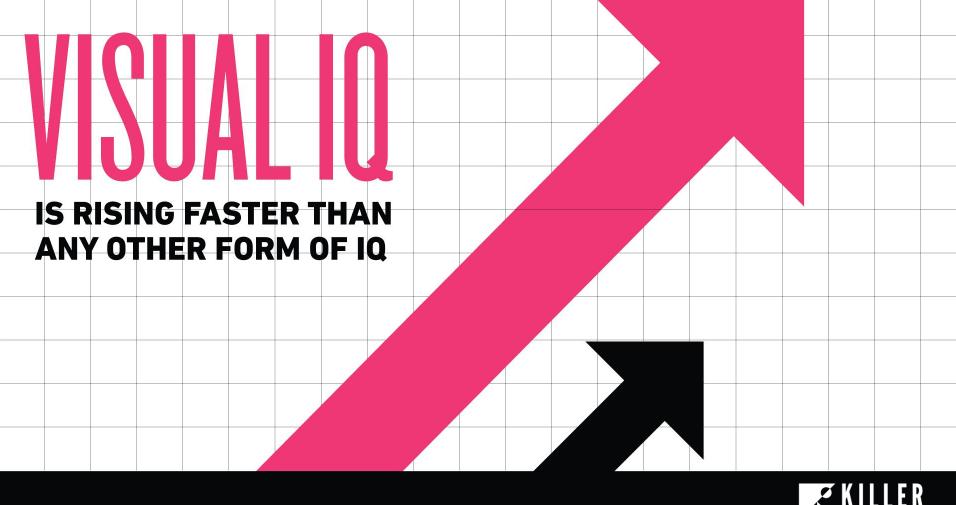




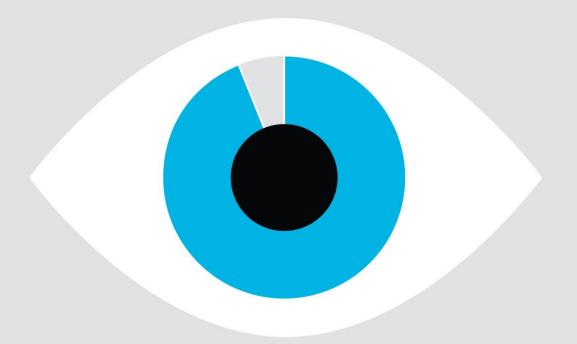


# PART 2: QUALITY EXECUTION IS KEY









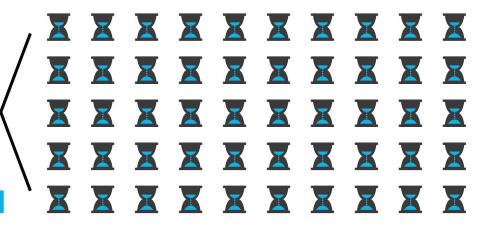
First impressions are 94% based on design



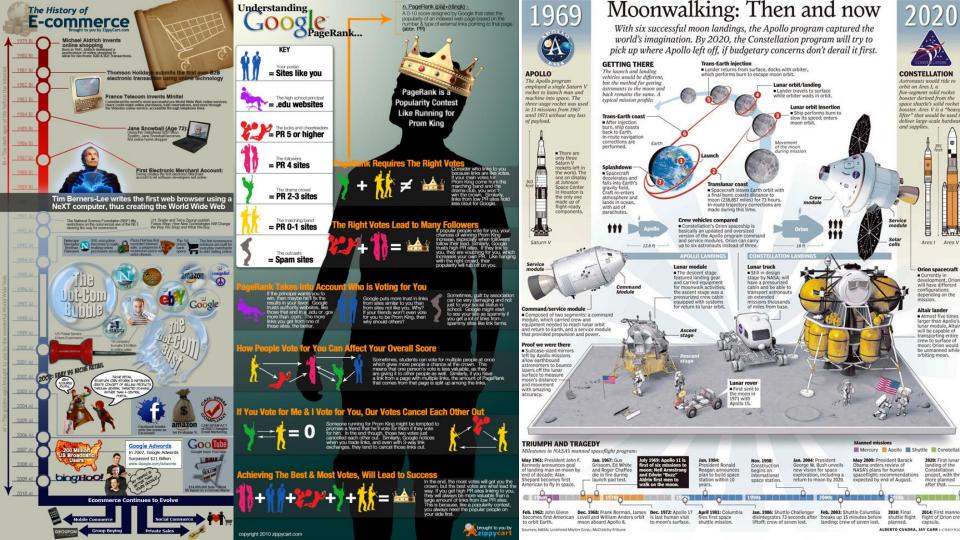
IT TAKES LESS THAN

# 50 MILLISECONDS

**TO FORM A FIRST IMPRESSION** 

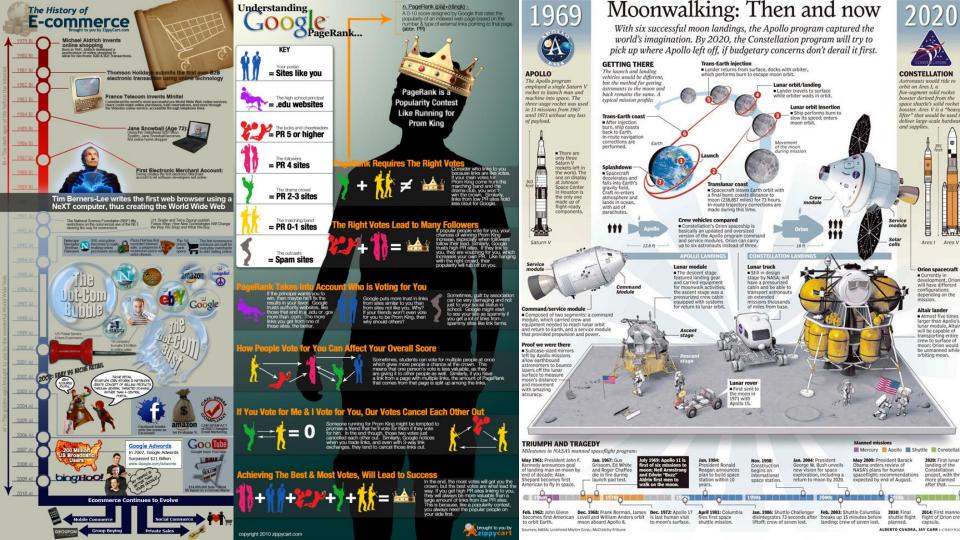






# THOUGHTS?

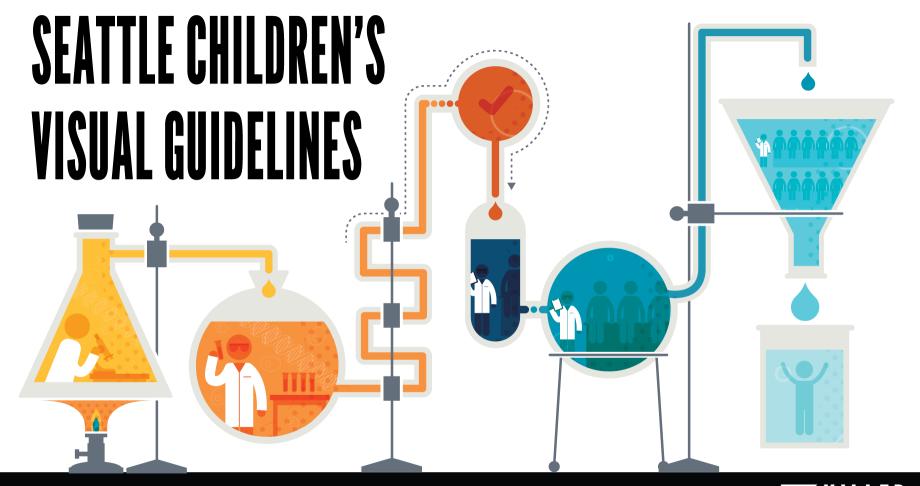




# PART 3:

A PROCESS THAT WORKS FOR ANY BUDGET







### A Cure in the Lab Is Not Enough

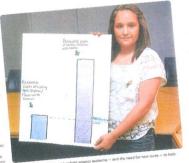
You can help bring research breakthroughs from the bench to the bedside.

Research starts at the bedside, where Seattle Children's clinicians se opportunities to improve patient are every day. They carry those needs o the leboratory bench at Seattle cientists uncover breakthroughs that What comes next in the research life Iscovery into a new way of treating allaboration, talent and a lot of money. nost of which comes from grants from

#### he high cost of cures

linical and translational research can ast more than other phases of the isearch life cycle, because it's where romising treatments are tested to ake sure that they are safe and better an current options. For a clinical udy - and the work it takes to get a inical study approved - funding from aditional sources like the government drug companies doesn't match the ed. It's also rarely covered by a itient's insurance. This arid funding gap between a

eakthrough and testing its real-world plication is so profound that searchers refer to it as the "valley of ath." If funds aren't found to move a research forward, a potential cure it tanguish in the valley. "Traversing the valley of death is e of the most difficult things to do biomedicine," says Dr. Andy



Natable Smith, 12, talks about her fight against leukemiq — and the need for new cures — to help cells receively for research at Seattle California.

Scharenberg, a Children's investigator whose research is now tottering on this precipice. (You can read more about his work to treat illnesses by fixing the genes involved on page 12.)

As our research institute has matured, we have more and more investigators needy to translate their discoveries to

new treatments for kids - and we need your help.

Philanthropic support - in any amount -- provides essential funding along the research life cycle, You can bring us one step closer to providing healthier futures for children throughout the world. Learn more by contacting Brenda Majercin at 206-987-4979 or brenda.majercin® seattlechildrens.org.

#### The Research Life Cycle

Advances in all areas of science provide exciting developments for healthcare practice. So, how do lightbulb ideas get explored and reach real people? The research life cycle begins when doctors ask questions about how to improve treatments for their patients. For example, how can Cancer treatments cause fewer side effects? Is there a way to safely fix a genetic mutation? Cash flow and people willing to participate are crucial to keep the cycle in motion. Here's how researchers turn possibilities into better realities for patients and their families:

In the lab, researchers consider and develop ideas. They:

- Share thoughts, develop an idea, and get research funding
  - o [Visual warning sign]: Research can't begin without funding

  - [Visual warning sign]: Funding needed between testing stages Test the idea until results are consistent

The preparation period transitions research from the lab to a controlled environment that Confirm that lab research answered the study question includes people. Researchers:

- Seek funding
- Grant applications from organizations
  - o [Visual warning sign]: Funding needed for clinical study to proceed Donations from community members

#### Carefully planned studies test whether the new idea actually helps people. Volunteers perticipate so researchers can identify how well treatments work and that they are safe,

- Small group of volunteers · Phase 1

  - o [Visual warning sign]: People needed for phase to be completed

  - Medium-size group of volunteers
  - [Visual warning sign]: Without enough people, study can't continue
  - Examines effectiveness

#### Phase 3

- [Visual warning sign]: Without enough people, study can't continue Large group of volunteers
- Examines effectiveness and consistency
- [Visual warning sign]: FDA approval required for phase to proceed Phase 4

  - Largest group of people
  - Examines long-term benefits and risks
- Throughout research and healthcare processes, scientists and doctors learn from experiments, discoveries, and care. New questions are generated, which become the topics of new studiest



#### The Research Life Cycle

for Seattle Children's

Advances in all areas of science provide exciting developments for healthcare practice. So, how do lightbulb ideas get explored and reach real people? The research life cycle begins when doctors ask questions about how to improve treatments for their patients. For example, how can cancer treatments cause fewer side effects? Is there a way to safely fix a genetic mutation? Cash flow and people willing to participate are crucial to keep the cycle in motion. Here's how researchers turn possibilities into better reallities for patients and their families:

#### Laboratory Study

In the lab, researchers consider and develop ideas. They:

- Ask a guestion
- . Share thoughts, develop an idea, and get research funding
  - o [Visual warning sign]: Research can't begin without funding
  - o Test the idea until results are consistent
    - [Visual warning sign]: Funding needed between testing stages

#### Clinical Research Study Preparation

The preparation period transitions research from the lab to a controlled environment that includes people. Researchers:

- · Confirm that lab research answered the study question
- Seek funding
  - o Grant applications from organizations
  - o Donations from community members
  - o [Visual warning sign]: Funding needed for clinical study to proceed

#### Clinical Research Study

Carefully planned studies test whether the new idea actually helps people. Volunteers participate so researchers can identify how well treatments work and that they are safe.

- Phase 1
  - o Small group of volunteers
  - Examines safety and side effects
  - [Visual warning sign]: People needed for phase to be completed
- Phase 2
  - o Medium-size group of volunteers
  - [Visual warning sign]: Without enough people, study can't continue
  - Examines effectiveness
- Phase 3
  - o Large group of volunteers
    - [Visual warning sign]: Without enough people, study can't continue
  - Examines effectiveness and consistency
- Phase 4
  - o [Visual warning sign]: FDA approval required for phase to proceed
  - Largest group of people
  - o Examines long-term benefits and risks

Throughout research and healthcare processes, scientists and doctors learn from experiments, discoveries, and care. New questions are generated, which become the topics of new studies!

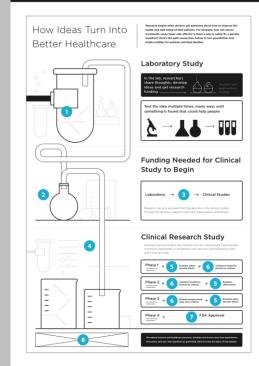


This wireframe shows the intended direction and layout for the data visualization, color palette, fonts, and illustration style (if applicable) as chosen by the designer. Please review the wireframe and content thoroughly with all stakeholders before completing the feedback form.

Any deviations from the approved wireframe can result in extensive edits and may delay delivery dates

► DIMENSIONS:

24x36 inches



#### LAYOUT PAGE 1 OF 1

#### MAIN POINTS:

High-level explanations of Seattle Children's Research

#### GRAPHICS KEY:

Items listed here correlate to the numbers shown on the layout, to the left. Please reference this list for descriptions of all the numbered items in the layout.

- 1. Illustration of doctors doing lab
- research inside of a test tube

  2. Illustration of empty viles and test
- tubes
- 3. Illustration of bills and coins
- 4. Illustration of lab equipment with small scale researchers inside of viles and test tubes
- 5. Clipboard icon
- 6. Illustration/icon of a volunteer.

  More people will be added at each iteration of the icon.
- 7. Illustration/icon of a badge
- 8. Illustration of researchers





Advances in all areas of science provide exci do lightbulb ideas get explored and reach rea doctors ask questions about how to improve cancer treatments cause fewer side effects? Cash flow and people willing to participate an researchers turn possibilities into better realiti

#### In the lab, researchers consider and develop

- Ask a question Share thoughts, develop an idea
  - o [Visual warning sign]: R
    - Test the idea until result [Visual warning]

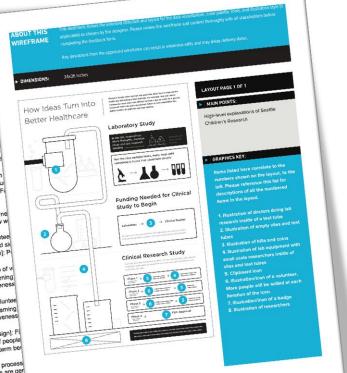
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  - Seek funding Grant applications from
    - o Donations from commu
    - [Visual warning sign]: Fil

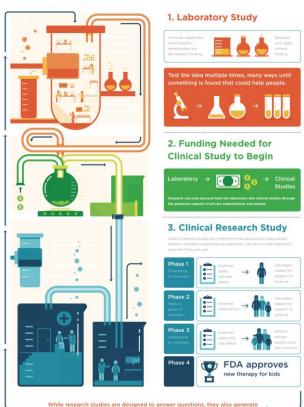
Carefully planned studies test whether the ne participate so researchers can identify how w

- · Phase 1
  - Small group of voluntee o Examines safety and sid
  - [Visual warning sign]: P
- · Phase 2 Medium-size group of v
  - [Visual warning] Examines effectiveness
- Phase 3 Large group of voluntee
  - . [Visual warning] Examines effectiveness
- · Phase 4
  - o [Visual warning sign]: Fi Largest group of people
  - o Examines long-term ber

Throughout research and healthcare process discoveries, and care. New questions are ger



#### **How Ideas Turn Into Better Healthcare**



new questions that spur new rounds of research for scientists and doctors.



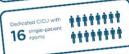


By the Numbers Seattle Children's

3,000











We support life-long heart care by treat patients from 0-21 years old. Our contin of care starts with our Prenatal Diagno and extends all the way through our Ad Congenital Heart Transition Clinic, a par with the University of Washington

and over 8,00

patients can be seen same day or next day for evaluation and care. Learn more at seattlechildrens.org/heart



Only Pediatric Heart in a 6 state area.



With 1,186 people & 330,000 square feet of space, Seattle Children's Research Institute is dedicated to a future without childhood disease.

34,825 Emergency Department

visits + 20,120 Urgent Care visits =

Seattle Children's Hospital is ready when you need us









## Seattle Children's Seattle Children's Nursing by the Numbers





Nurses shared innovative projects and research on the local and national stage



poster and podium presentations



published papers











Among children's hospitals, Seattle Children's ranks in the top 25% for nurses with a BSN or higher degree

in the top 10% for nurses with a specialty certification







## FREE EBOOK

## VISUAL CAMPAIGNS FOR BEGINNERS

**DOWNLOAD HERE:** bit.ly/VizComSIC





## **AMY BALLIETT**

Killer Infographics **CEO & Chief Swiss Army Knife**amy@killerinfographics.com

