

How to Describe and Clarify with Graphics

with Connie Malamed
@elearningcoach



@doggyprofile
Senior Editor. Formerly: Washington Post,
Time, Newsweek and, back in the day,
Student Mag. Healthcare nerd. My dog's
name is Harry.



@learnperson
Obsessed with digital, eLearning and
online learning environments. I also
enjoy philosophy and modernist to
contemporary literature. Open source
enthusiast!



Lady Gaga 🧼 @ladygaga



Shift 3: 11pm to 3am



Status

Assess Patient

Step 1: Change in Mental Status

You decide that she is not at her mental status baseline. Her mental status has fluctuated frequently in the last 24 hours. Step 1 is positive.

Step 2: Inattention

Patient has 4 errors. Step 2 is positive.

Step 3: Altered Consciousness

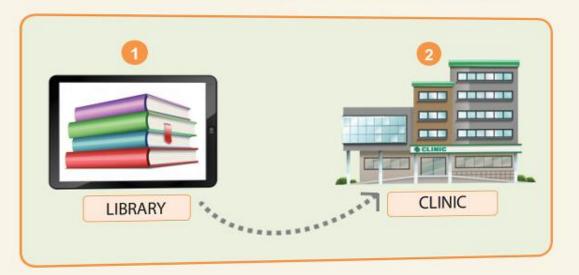
Patient is not SBS of zero (awake and calm), but an SBS of -1. So this is positive.

Conclusion

Positive for delirium. See the next actions you should take.

How to Use This Course

The course has two parts. You will start at the digital library to study this topic. Then you will move on to the clinic to treat patients. There is a quiz at the end. Now, click the Library button at the bottom to begin.







CONNIE MALAMED

DESIGN DESIGN OLUTIONS

Principles and Creative Inspiration for Learning Professionals



WILEY



You are here: Home / elearning Design / 8 Learning Design Trends To Watch In 2015

8 Learning Design Trends To Watch In 2015

by Connie Malamed (Edit)



224

Twee!

119

[7] Share

These are exciting times in the world of learning. Ubiquitous Internet access, shifts in workplace power structures and wider dissemination of cognitive research are some of the many factors contributing to the following trends to watch in the coming year. This can be a source of inspiration and fuel for creative solutions.

1. Design Thinking

Design Thinking acquires and synthesizes information in order to generate creative, human-centered solutions to all kinds of challenges. It's a perfect model for training and performance support because it stresses empathy for users, a people-centric focus and innovative thinking. Considering that our industry is often slow at adopting new paradigms, this coming year might see Design Thinking increasingly infiltrate the ADDIE and SAM models (see: Is Design Thinking Missing From ADDIE?).

Why? Because a growing number of learning experience designers have a sense that the











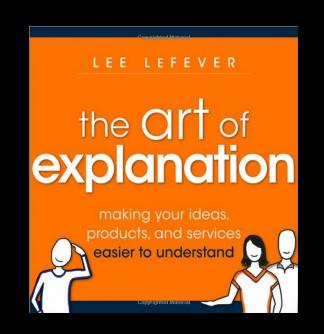


The act or process of making something clear or easy to understand.

Merriam-Webster

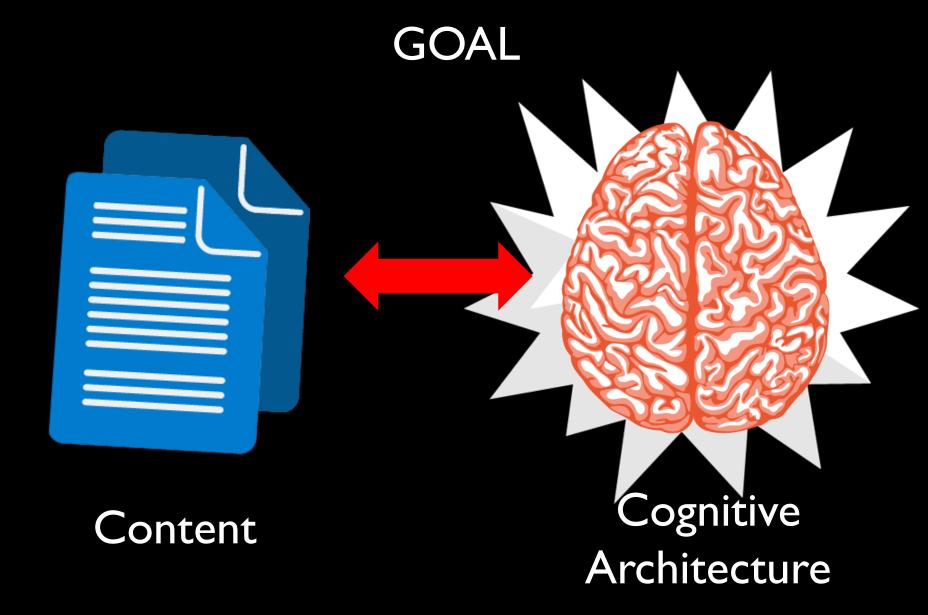
Describing facts in a way that makes them understandable.

Lee Lefever





@elearningcoach Professional Explainer



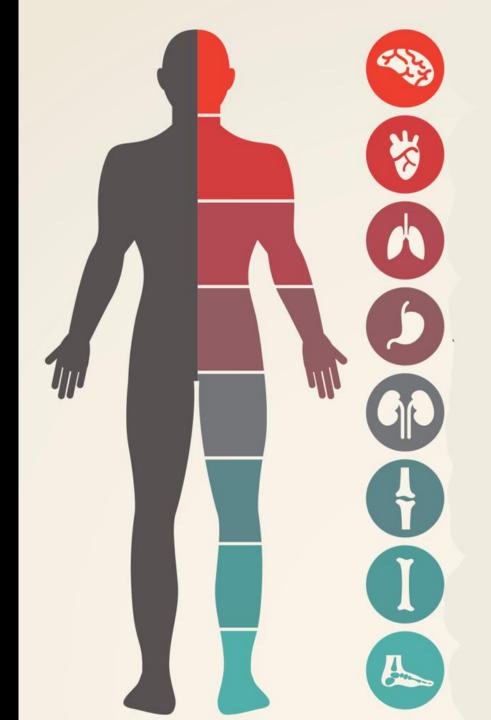
What do we know about our cognitive architecture?

Selective attention filters out what is unimportant

Limited capacity working memory

Infinite long-term memory

Process 3-4 bits of info at once



Styles Over the Years

ration containing enoug child's needs.

Many other meals mig the pictures, except mili some other wholesome for part of the food of every the doctor objects, and thi

As to the amounts that three or four glasses (1) or its equivalent in modera stitute: fruit and vegetable

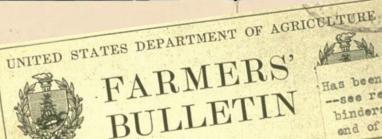


For, 2,--- A sensible dinner for a child. Th ing : Lamb chop (group 1); baked pob youngest children) (group 4); bread am and sugar (groups 1, 2, and 5).

or other wholesome fat; and all t child will eat. One or two ounces (including the sugar used in cooki does not prevent eating the other fe

The foods shown in the pictures a are the kind liked by most healthy and neat in every way. This is imp neat and orderly habits.

The following bills of fare, like the easy to prepare, sufficiently varied, and good. They are so planned that milk I and a food from each of the other gro a day.





Has been ret --see rev.ed binders at end of file

MARCH 4, 1916

WASHINGTON, D. C.

717 Contribution from the States Relations Service, A. C. True, Director.

FOOD FOR YOUNG CHILDREN.

By CAROLINE L. HUNT,

Scientific Assistant, Office of Home Economics.

Food for children between three and six years of age should be chosen with reference to their bodily needs, as described in the



Fig. 1.—A healthy child having a sensible meal. Every child needs clean, wholesome food, well prepared,

following pages, and should be carefully prepared and attractively

served as shown in the above picture.

terrus. 20604"-Bull. 717-16-1

i Prepared under the direction of C. F. Langworthy, Chief, Office of Home Economics. Note —This bulletin is in accordance with the principles of child feeding now generally accepted by NOTE.—This bulletin is in accordance with the principles of child feeding now generally accepted by
the best authorities, and also embodies the results of work done in the laboratory of the Office of Home.

The Department of Agriculture University of the Office of Agriculture University of the Office of Agriculture University of the Department of Agriculture University of the Office of Children Department o the best authorities, and also embodies the results of work done in the laboratory of the Omee of Home Economics of the States Relations Service, U. S. Department of Agriculture. It is specially adapted to the use of mothers who wish some simple and short discussion of the subject expressed in housekeepers'

ESTED BILLS OF FARE.

BREAKFAST.

youngest | Stewed prunes (pulp and juice only for the youngest children). Corn-meal mush and milk, Toust and butter,

> Grape fruit (Juice only for the youngest children).

Milk toust with grated yolk of hardboiled egg.

Apple (scraped for very little children). Tonst. Hot milk.

hould be given to make up the required a quart.

DINNER.

Creamed potatoes, Green peas. Stewed plums with thin cereal-milk pudding.

Baked halibut. Boiled potatoes. Stewed celery, Boiled rice with honey or sirup,

Brolled ment cakes, Grits.

Creamed carrots, Bread, butter, and sugar sandwiches.

be given to make up the required

raham crackers and milk. sked custard.

lk tonst. wed peaches. s calce.

ry-milk soup.

ing istand.





FOOD FOR FITNESS

A Daily Food Guide

MILK GROUP

Some milk for everyone

Children under 9 . 2 to 3 cups Children 9 to 12 . 3 or more cups Teenagers . . . 4 or more cups Adults 2 or more cups

VEGETABLE FRUIT GROUP

4 or more servings

Include-

- A citrus fruit or other fruit or vegetable important for vitamin C
- A dark-green or deep-yellow vegetable for vitamin A—at least every other day Other vegetables and fruits, including potatoes

Plus other foods as needed to complete meals and to provide additional food energy and other food values



MEAT GROUP

2 or more servings

Beef, veal, park, lamb, poultry, fish, eggs

As alternates dry beans, dry peas, nuts

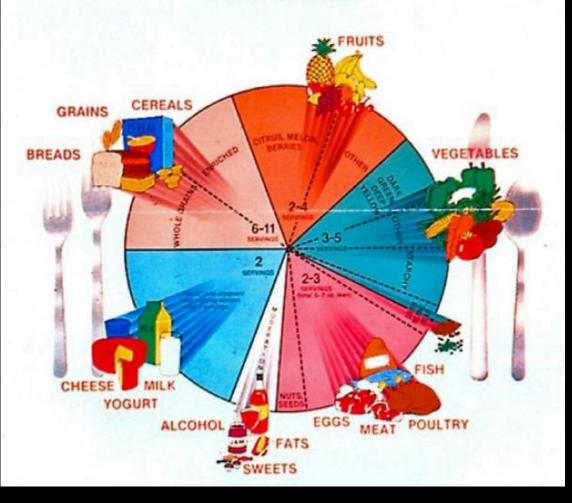
BREAD CEREAL GROUP

4 or more servings

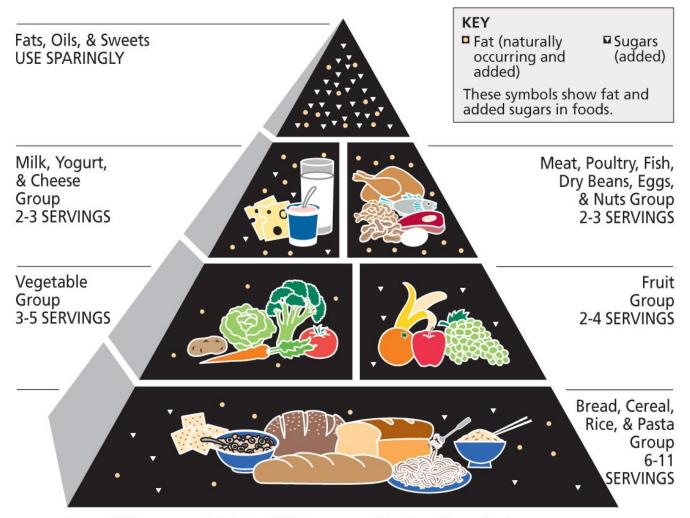
Whole grain, enriched, or restored



A Pattern for Daily Food Choices



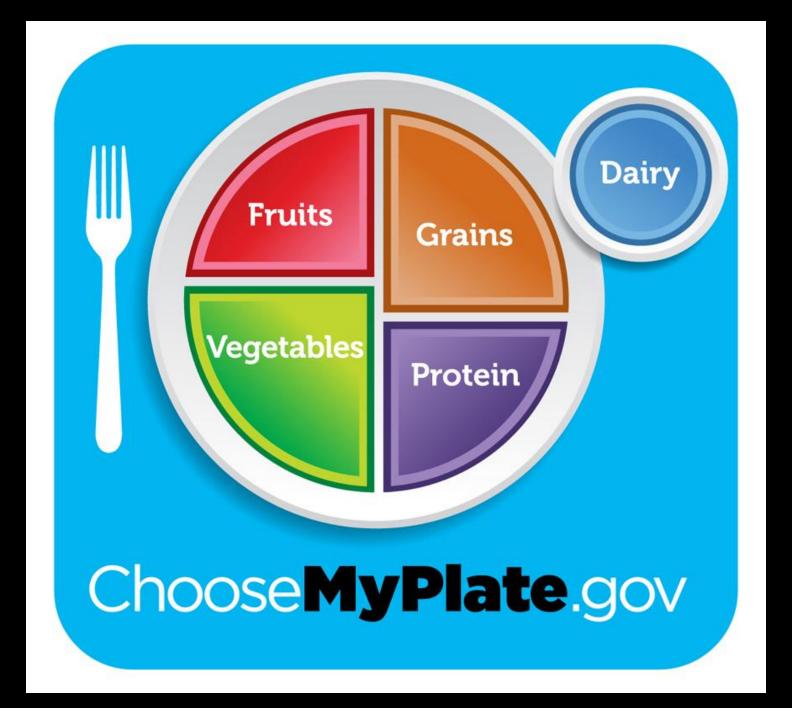
Food Guide Pyramid A Guide to Daily Food Choices



Source: U.S. Department of Agriculture/U.S. Department of Health and Human Services



MyPyramid.gov STEPS TO A HEALTHIER YOU



A Process for Visualizing

- Identify content to visualize
- 2 Determine best graphic format
- 3 Sketch the structure
- 4 Create

STORIES

GRAPHS

DIAGRAMS

Explaining with Stories

Benefits of Stories

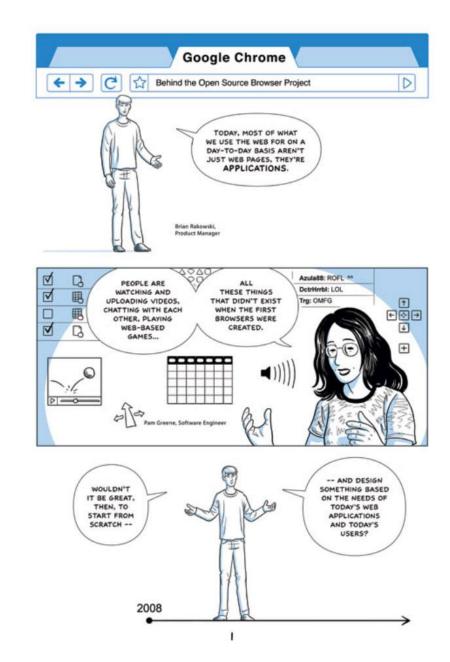
Arouse and satisfy curiosity

Provide a common understanding

Evoke emotions



Google Chrome



Story Structure

Set up a problem

Resolve the problem

2

3

Elaborate on the problem

Story Components

The Writer's Guide to Using Brain Science to Hook Readers from the Very First Sentence



What happens = **Plot**

Main person = **Protagonist**

Story question = **Goal**

How the person changes = Story





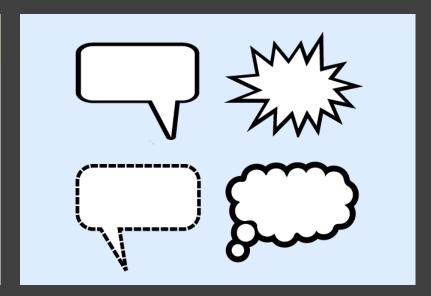


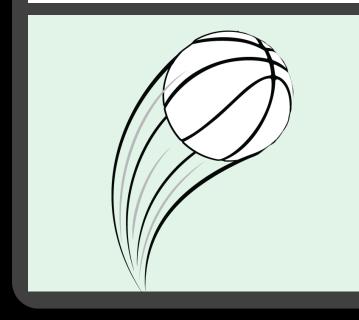
VL of Comic Format

The narration part

Caption

Gutter





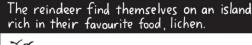


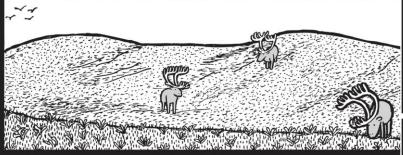
VL of Comic Format





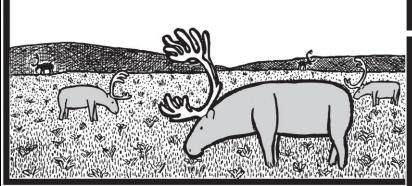














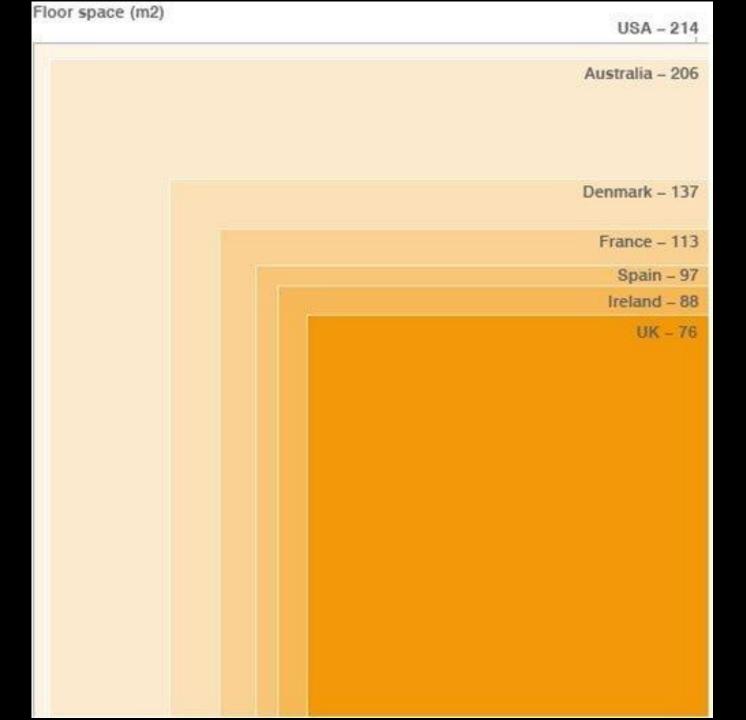




From a population peak of 6.000, only 42 reindeer remain: 41 females and one infertile male. There are no calves.



Explaining with Graphs



Benefits of Visualization

Makes the abstract concrete

Serves as a cognitive aid

Structures information

11 1 (12) 001 . 1 111 2

The number of email accounts around the world in 2013 was

3.9 BILLION



By 2017, that number is expected to rise to

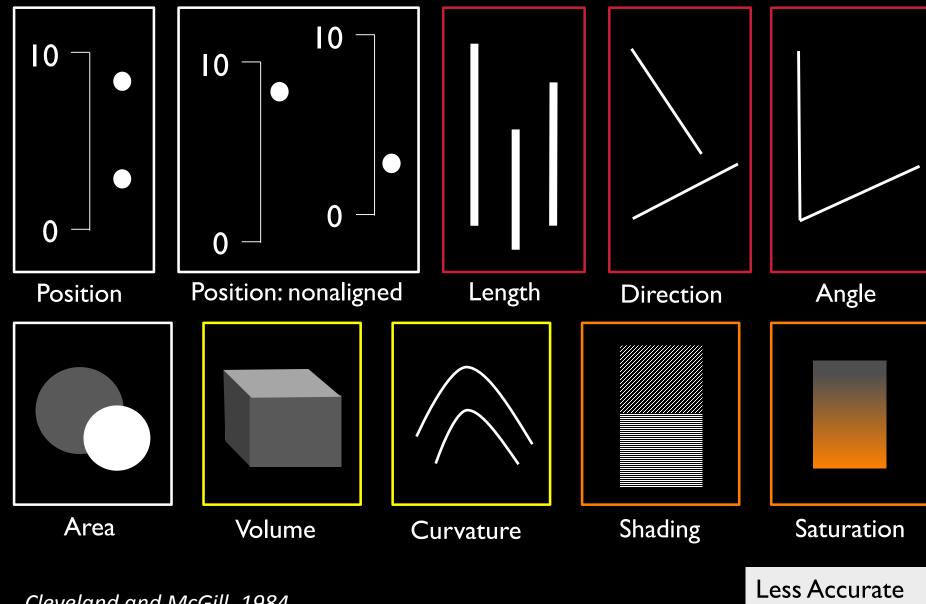
4.9 BILLION

48% of emails are opened on mobile devices



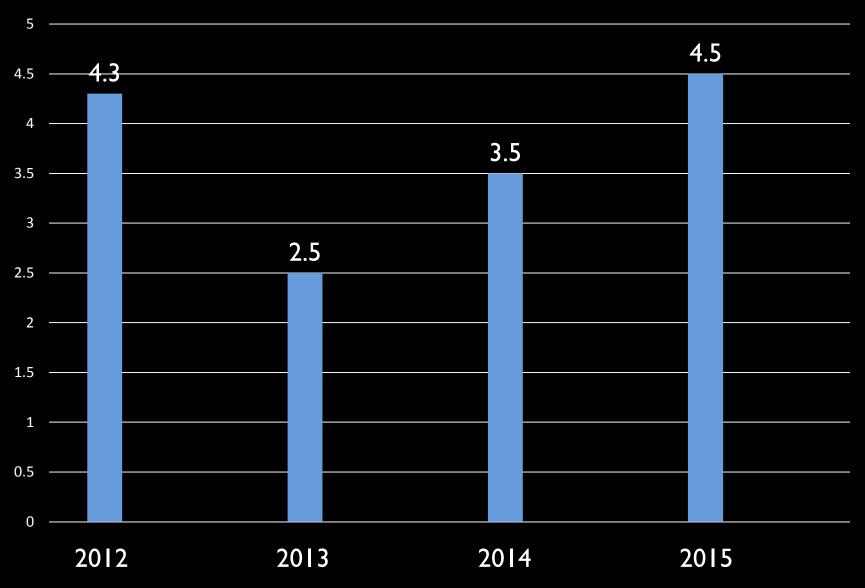
Choose a graph or visualization based on what you want the viewer to comprehend.

More Accurate



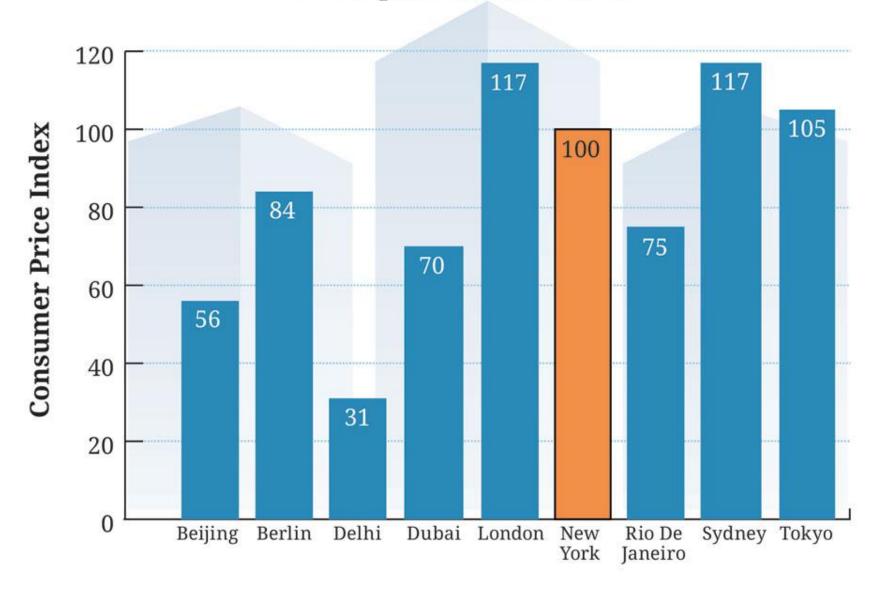
Cleveland and McGill, 1984

Bar Chart



COST OF LIVING BY CITY

(in comparison to New York)



Grouped Bar Chart

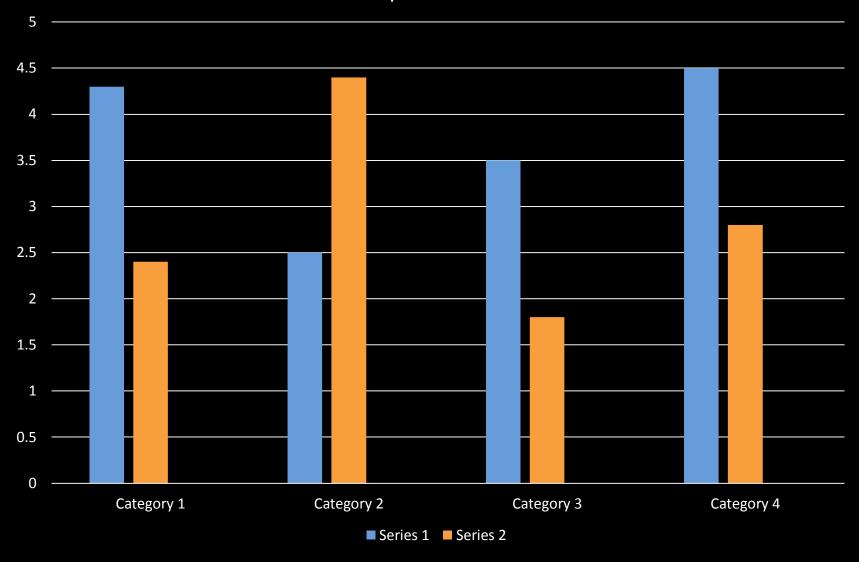
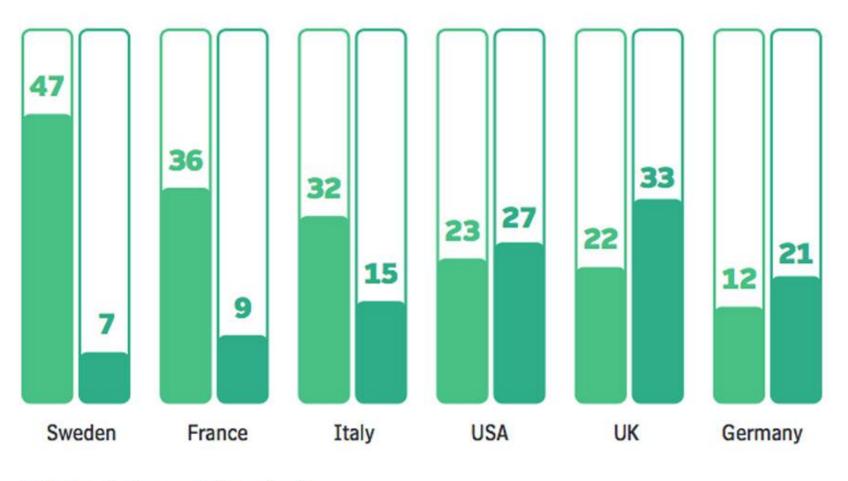


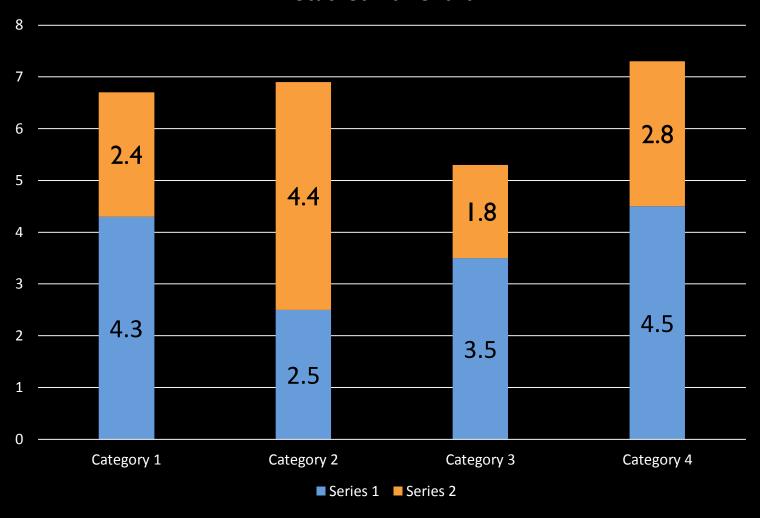
Figure 3: % Internet users using music subscriptions* / download services in past 6 months



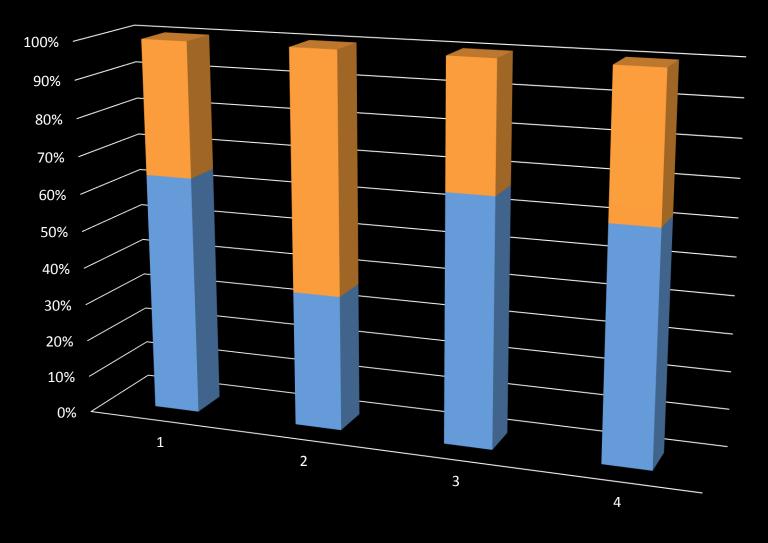
■ Subscriptions
■ Downloads

Source: Ipsos MediaCT *Also includes free users of subscription services

Stacked Bar Chart

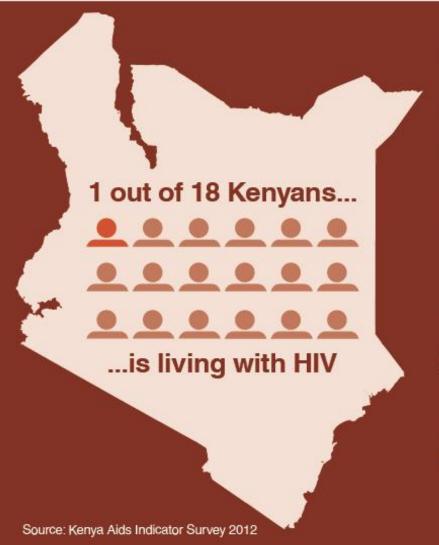


3D Chart



■ Series1 ■ Series2

HIV prevalence among women and men aged 15-64 years in 2012



1 out of 23 men in Kenya is living with HIV

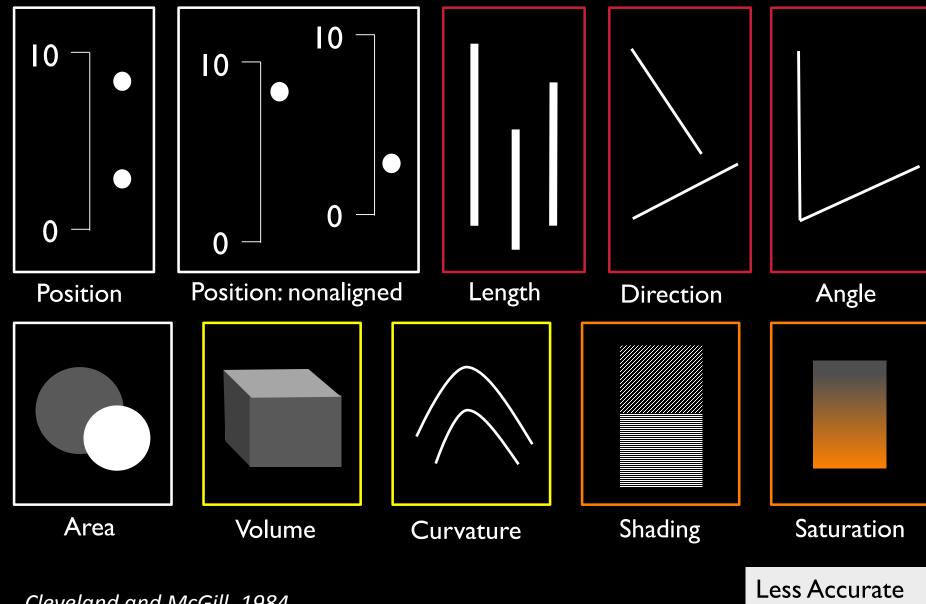


1 out of 19 women in Kenya is living with HIV



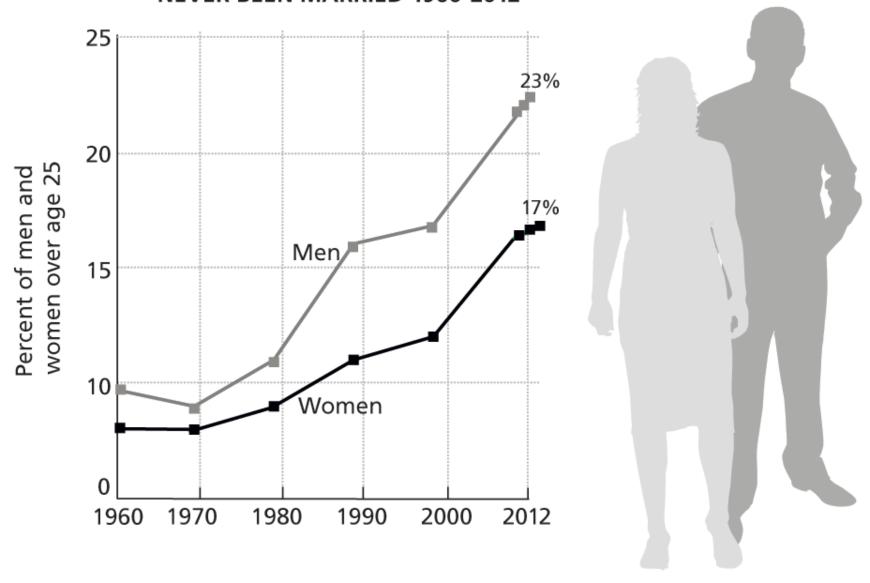
Infographic: Michael Mosota

More Accurate



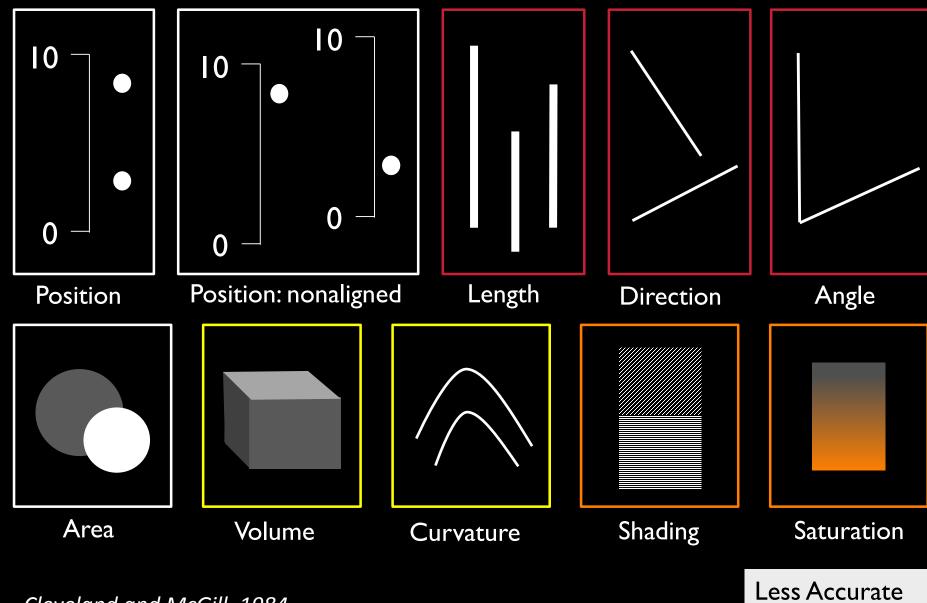
Cleveland and McGill, 1984

PERCENT OF AMERICAN ADULTS WHO HAVE NEVER BEEN MARRIED 1960-2012

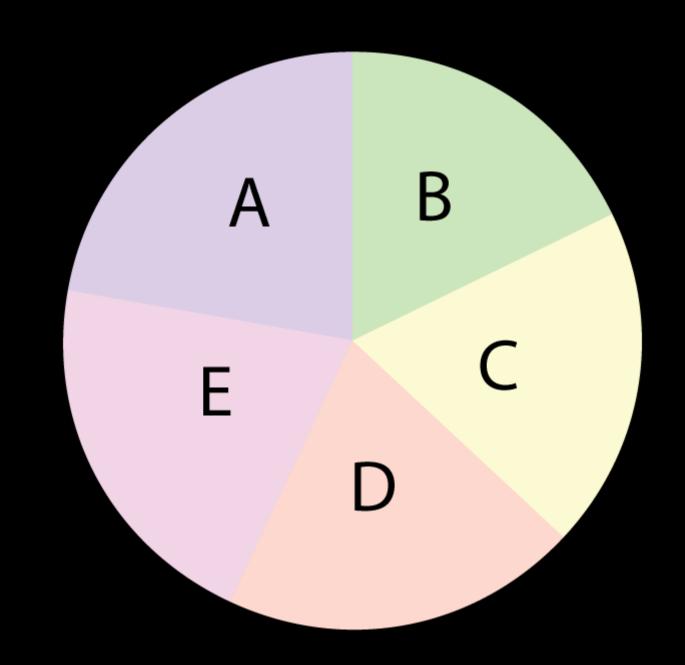


Source: PEW Research Center Analysis Of U.S. Census Data

More Accurate



Cleveland and McGill, 1984



How Instructional Designers Spend Their Time

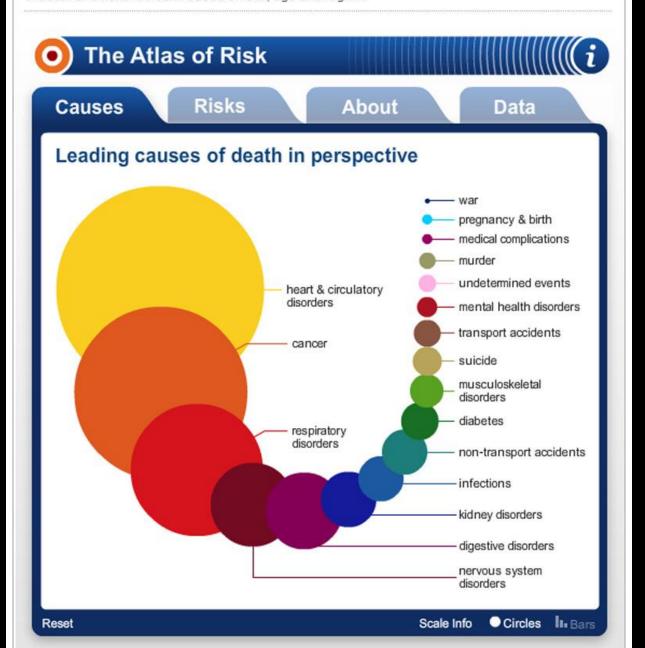
50%
Removing extraneous content

25% Finding stock photos

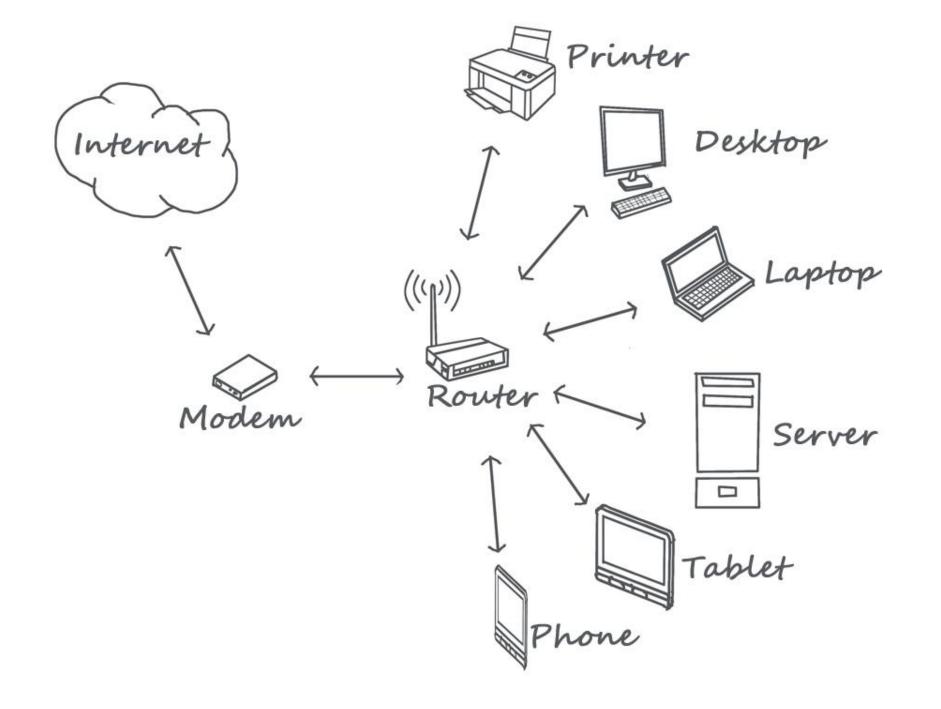
25%
Design and development

NHS Atlas of Risk

This atlas will help you to put health risks and death rates into perspective. Use it to compare cause of death and risks to health based on sex, age and region.



Explaining with Diagrams

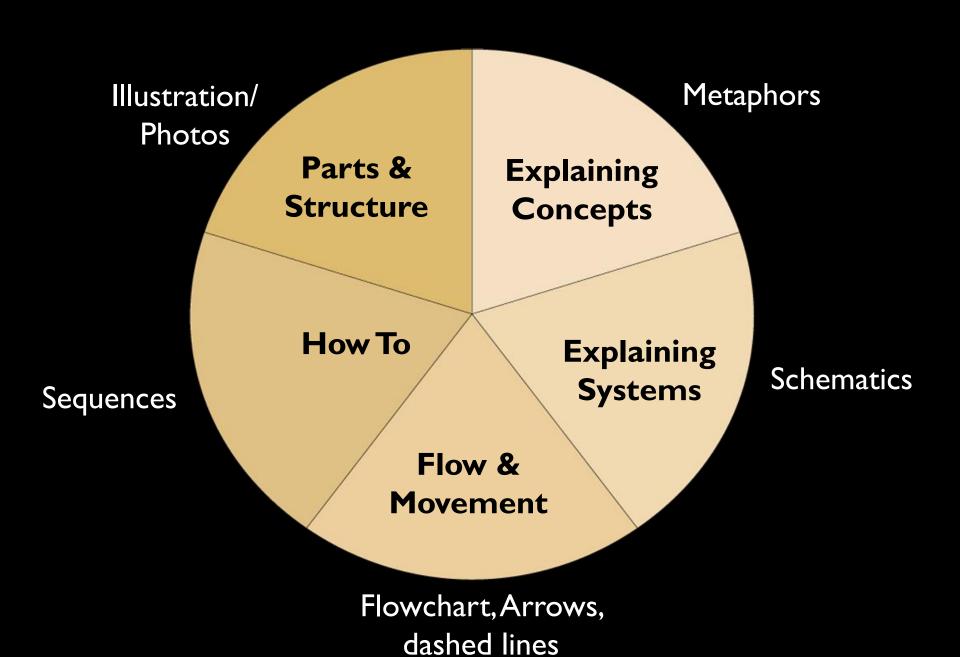


Benefits of Diagrams

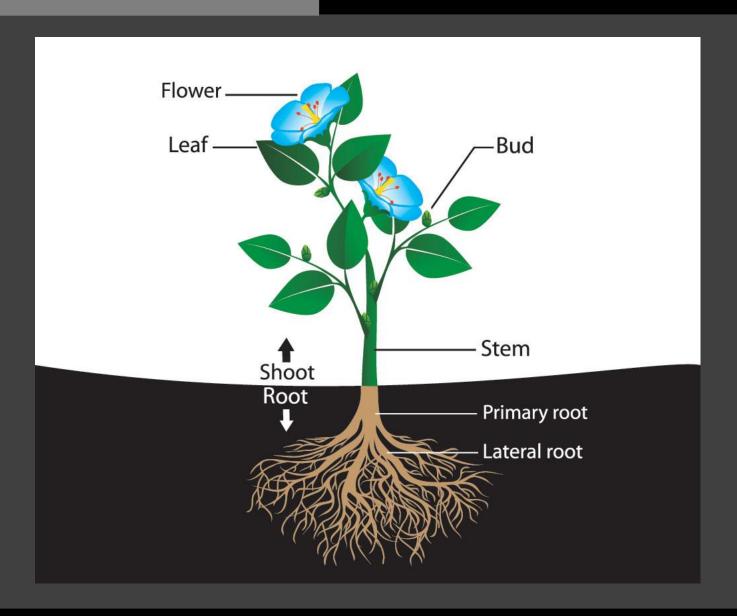
Less information to scan and process

Fewer visual distractions

Reduces load on working memory



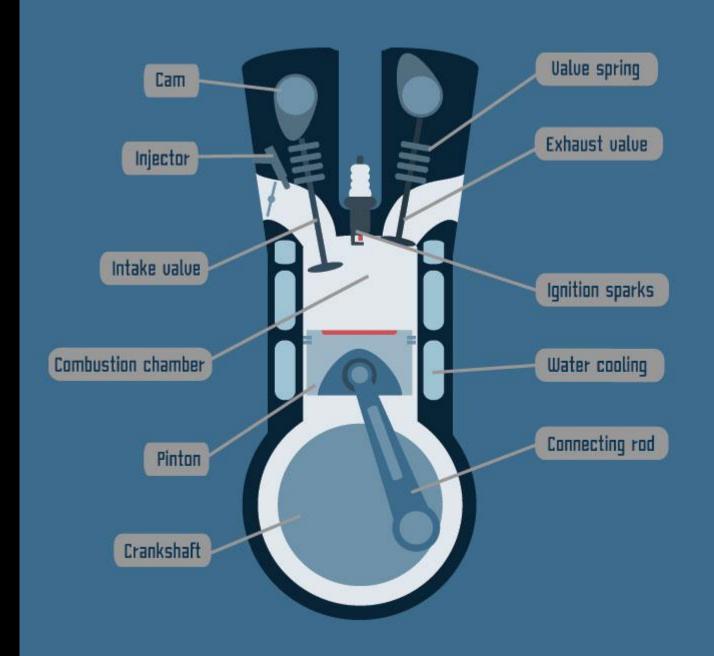
I. Parts and Structure





Key

- 1 camera part
- 2 camera part
- 3 camera part
- 4 camera part
- 5 camera part
- 6 camera part
- 7 camera part
- 8 camera part



Levels of Protective Gear

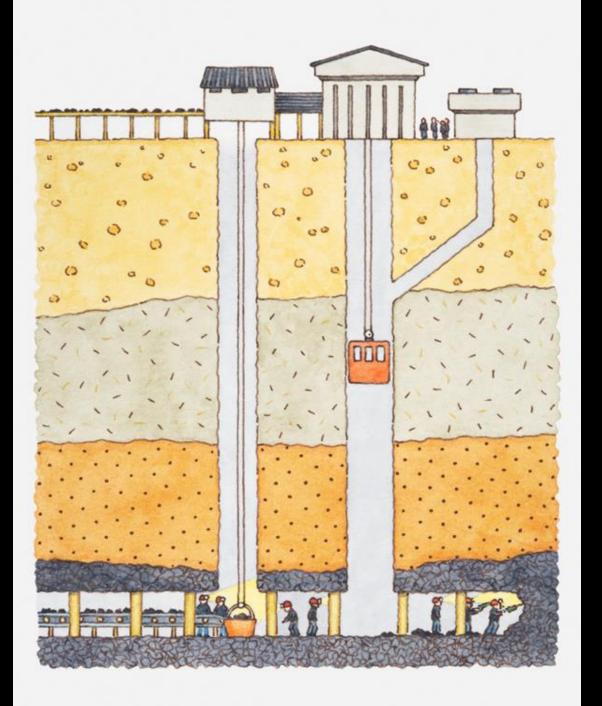
These protocols, some specified by the C.D.C., were in place at some hospitals when Mr. Duncan was being treated in Dallas.



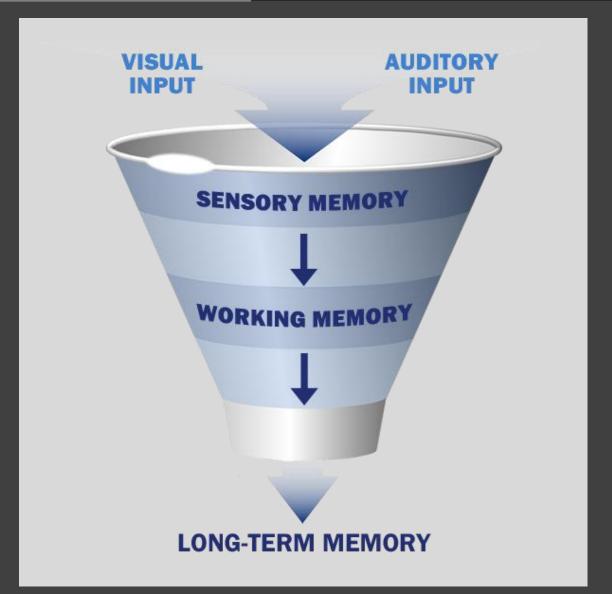
Original C.D.C. Guidelines

North Shore-L.I.J. Level 2 Suit

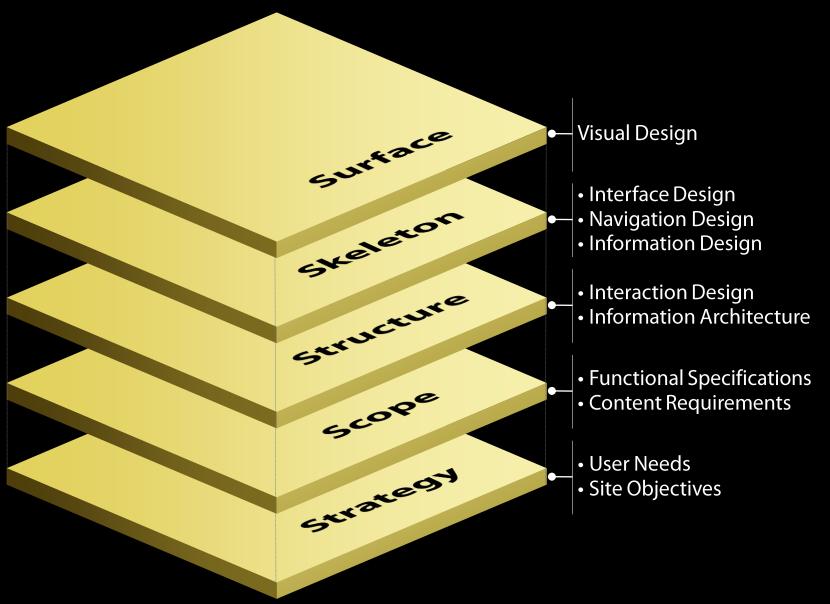
North Shore-L.I.J. Level 3 Suit



2. Explaining Concepts

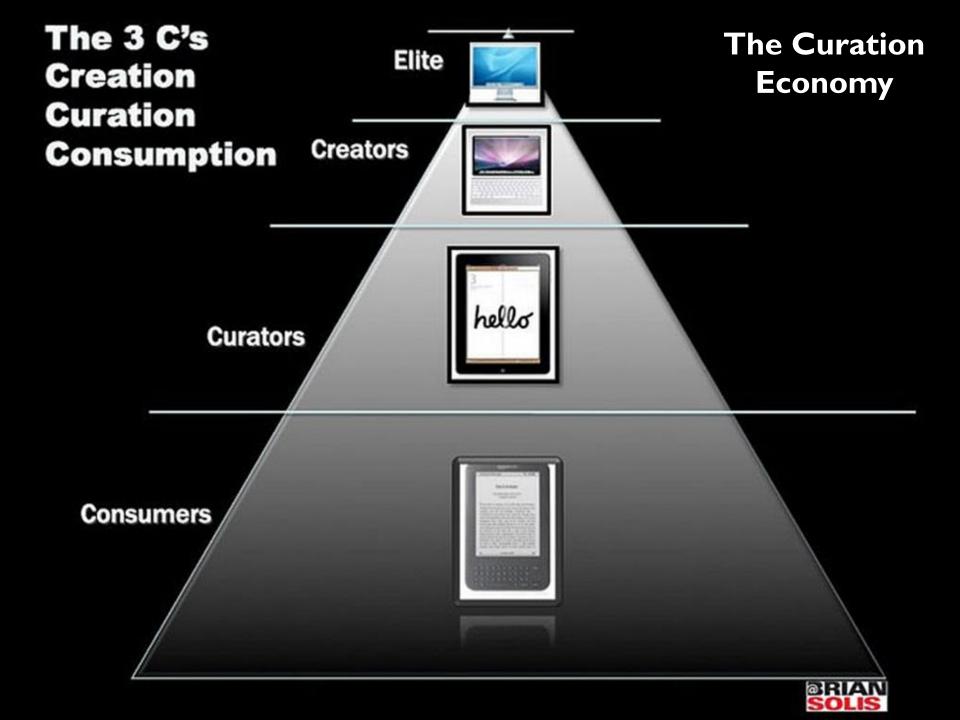


Elements of User Experience



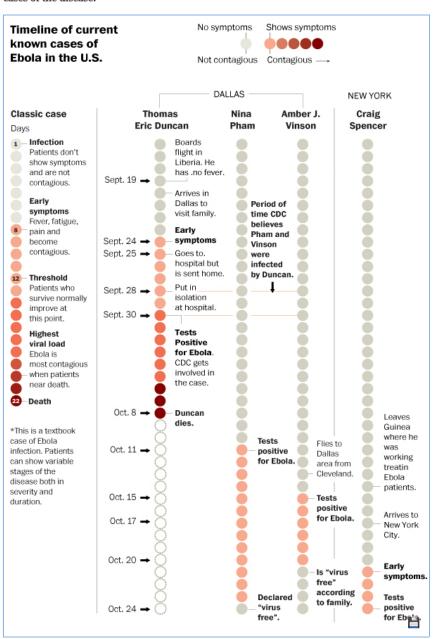
Source: Jesse James Garrett

Get My Graphic

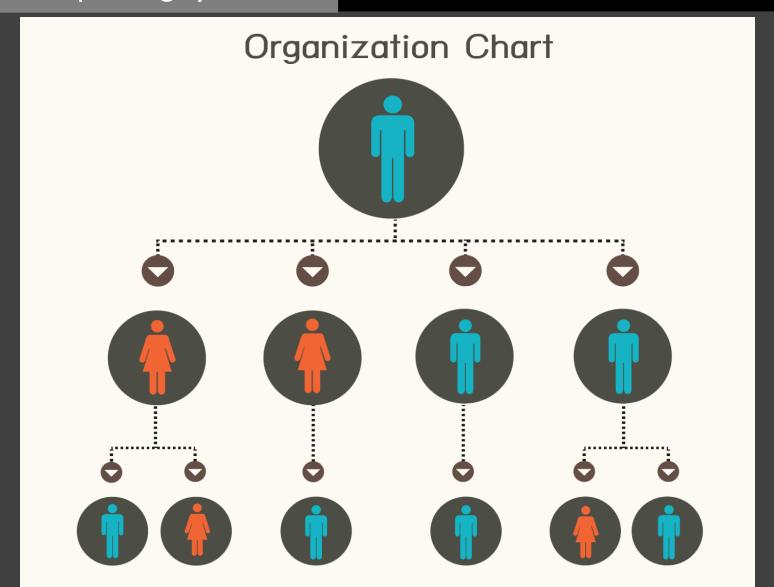


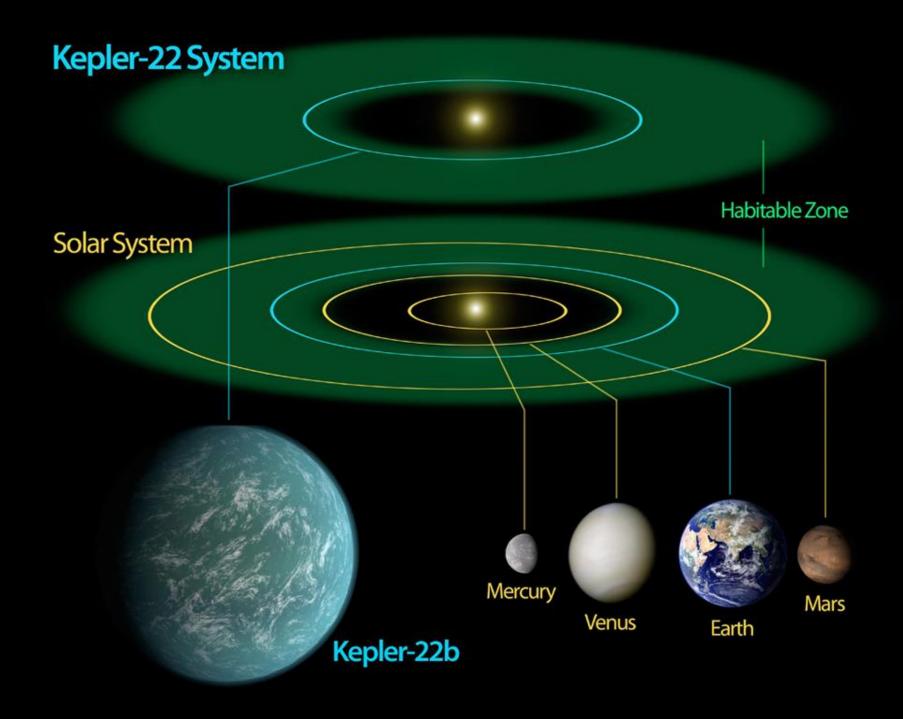
The time factor

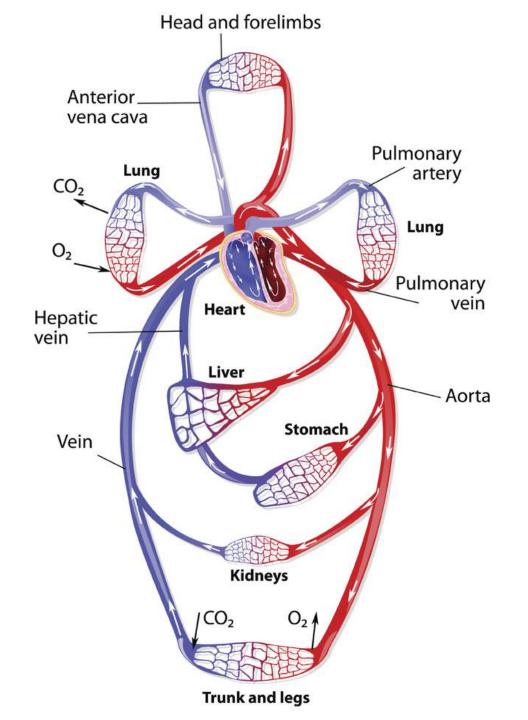
Patients infected with Ebola are most contagious when their bodies are close to collapse and the "viral load" in their organs is at its peak. Time is a crucial factor in the occurrence of new cases of the disease.



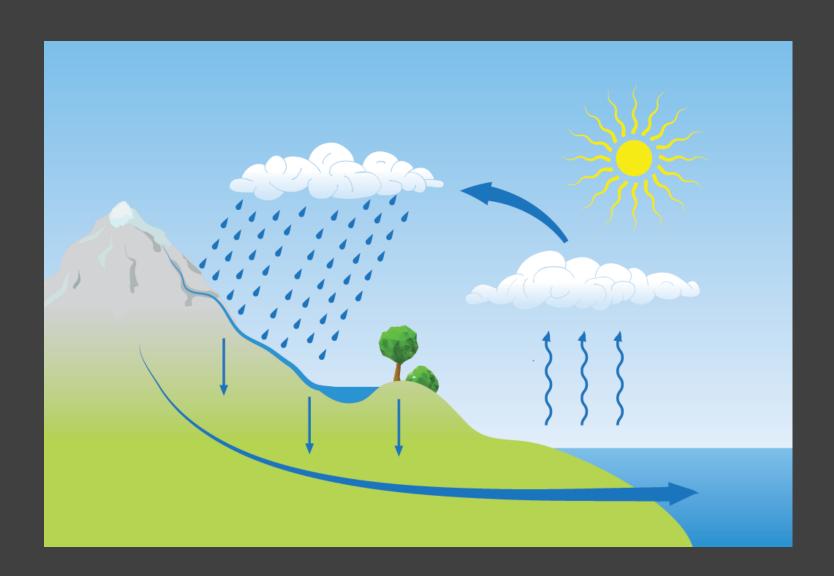
3. Explaining Systems



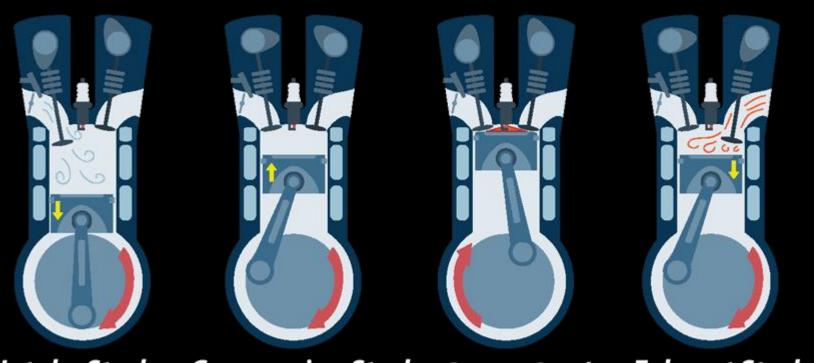




4. Explaining Flow

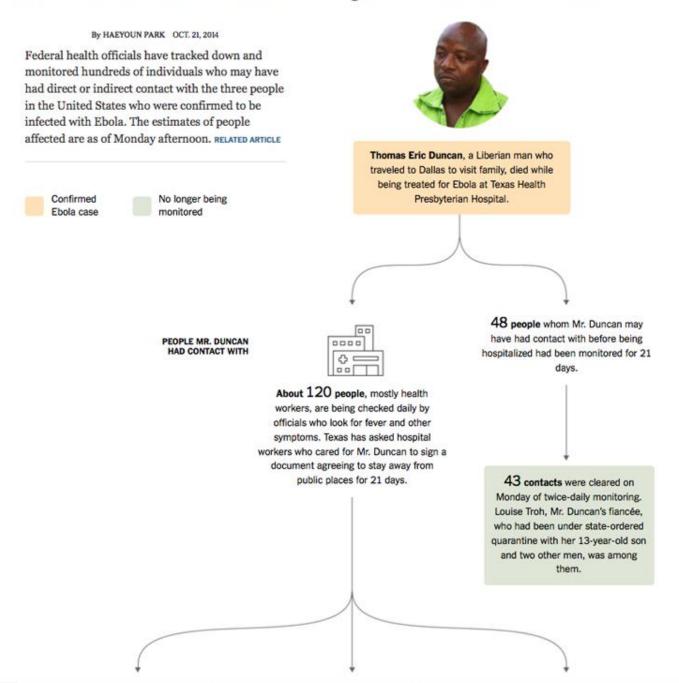


Phase Diagram



Intake Stroke Compession Stroke Power Stroke Exhaust Stroke

A Cascade of Contacts From a Single Case of Ebola in Dallas



5. How To











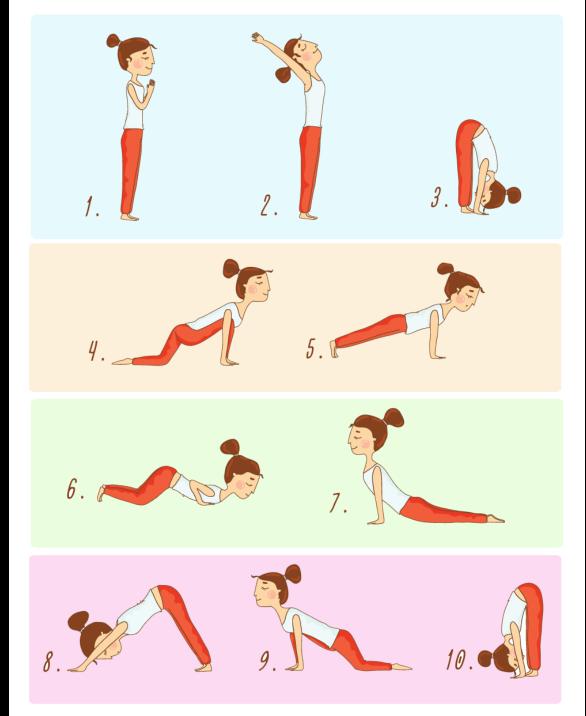






Step-by-Step **Spinach Dough**



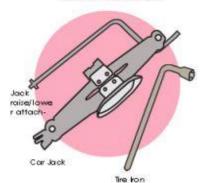


Changing a Car Tire

Coution!

Before proceeding make sure your emergency brake is on and that car is on leveled ground.

Took Needed

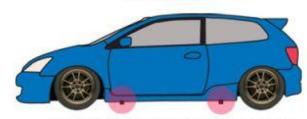


Location of Spare Tire and Tools



Tools and spare fire are kept in the trunk underneath the carpet

Jack Points



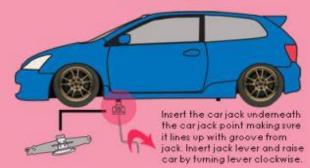
There are 4 jacking points. Two located on each side of the car in the locations outlined with the red circles. These are the points where the jack is placed when needing to raise car.

1. Loosening Wheel Bolls



First begin by Loosening the wheel bolts with the tire iron by turning iron counter clockwise. Do not remove bolts completely.

2. Raising Car



3. Removing Tire



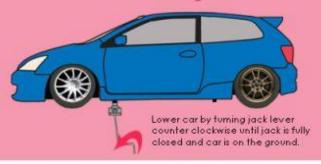
Once cartire is lifted off the ground, continue to unbolt the nuts the rest of the way and pull off tire. Pull towards yourself.

4. Replacing Tire



Put replacement fire on the car and secure with bolts. Screw bolts on with fire iron to hold fire in place.

5. Lowering Car



6. Tightening Wheel Bolts



Tighten wheel bolts by turning tire iron clockwise. Tighten one bolt at a time by alternating trom one to the other in a "X" direction.

Done!

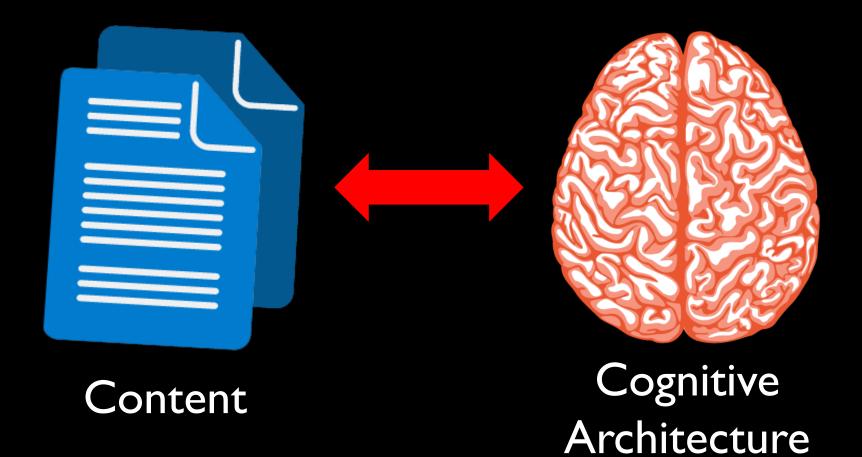
By Enrique Tejero



STORIES

GRAPHS

DIAGRAMS



Connie Malamed
@elearningcoach
theelearningcoach.com
cmalamed@gmail.com

theelearningcoach.com/explanations