

WHY READING IS CENTRAL TO 21ST CENTURY SUCCESS



Elfrieda H. Hiebert
TextProject &
University of California,
Santa Cruz









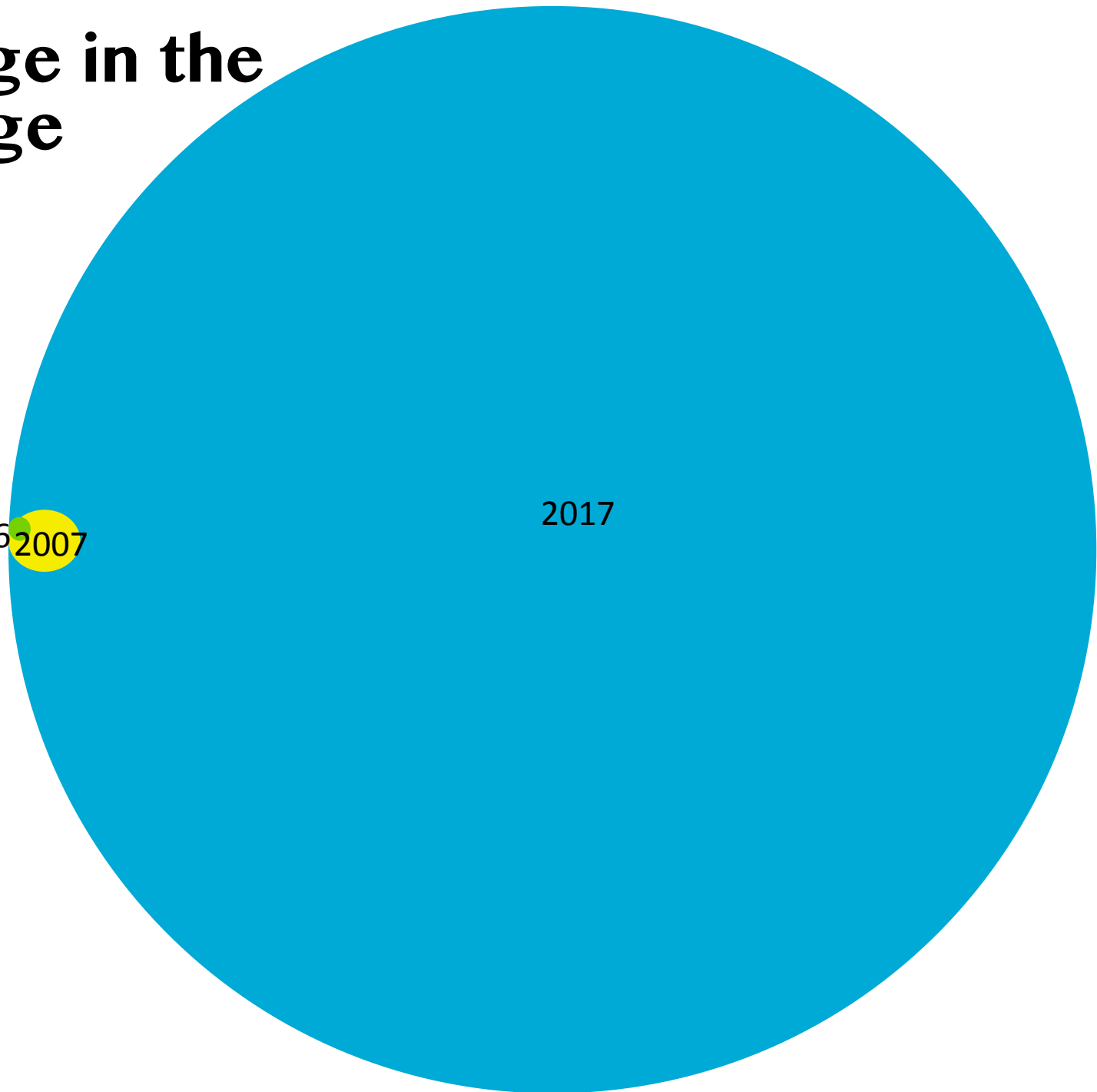


Knowledge in the Digital Age

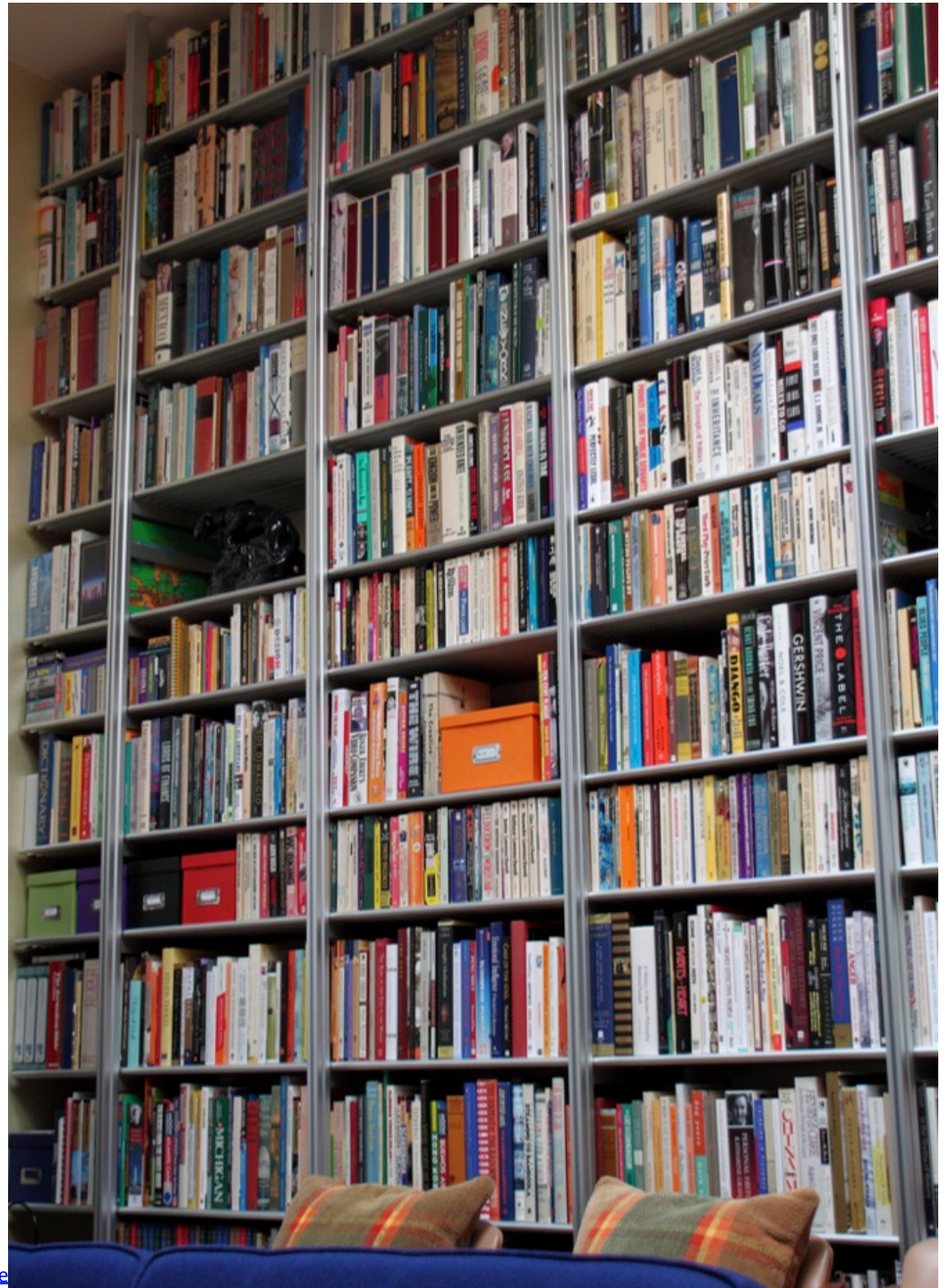
1986

2007

2017



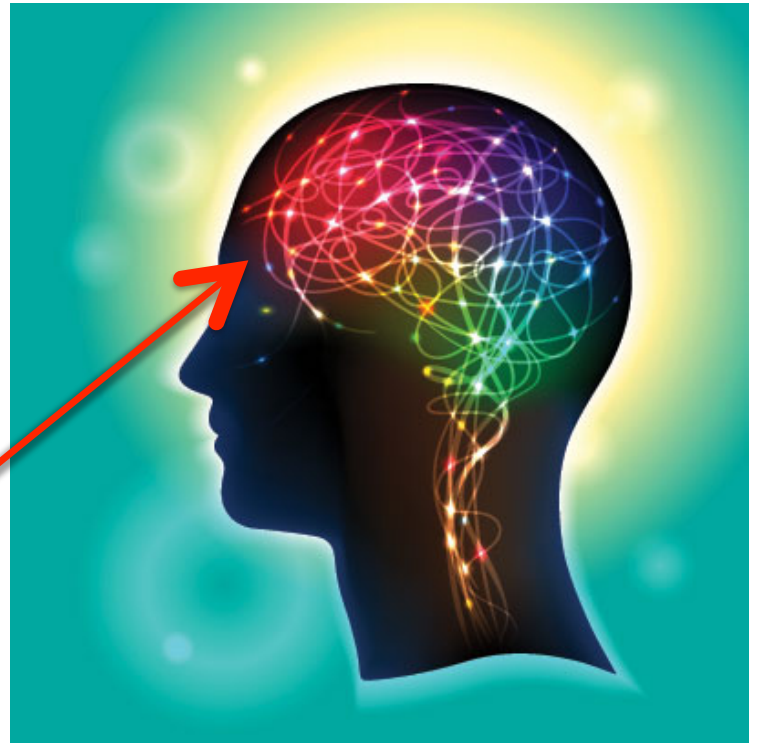
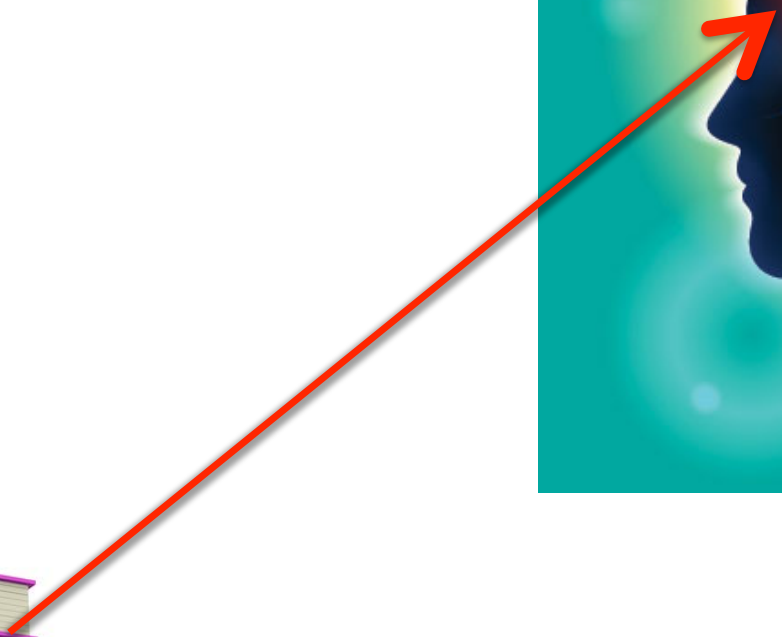
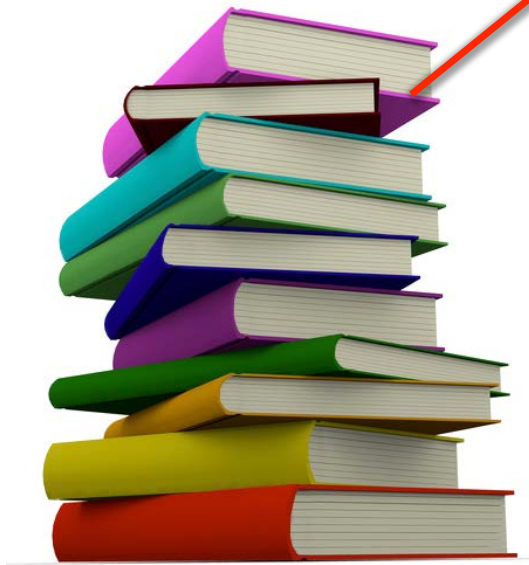
**Knowledge
is “stored” in
texts and...**

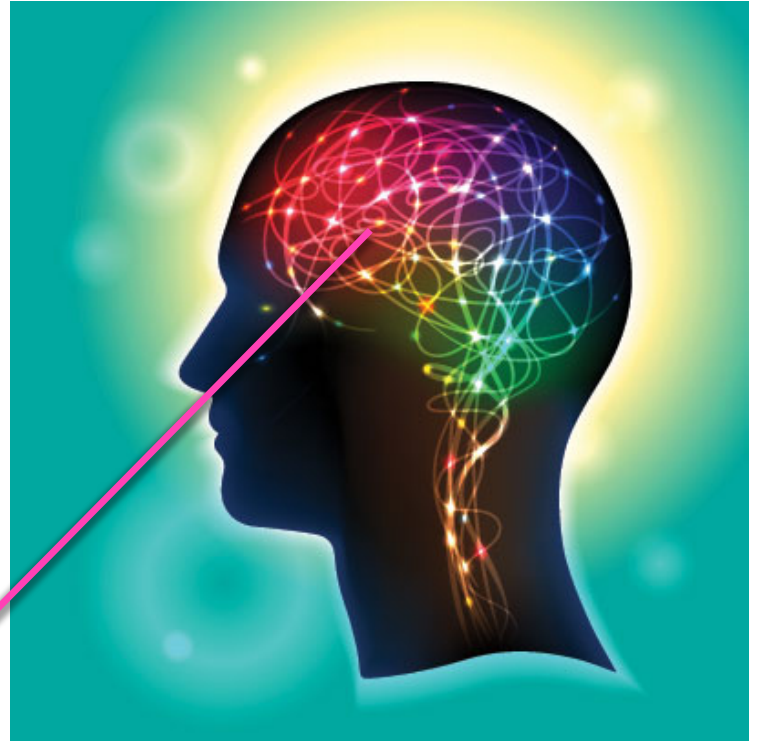
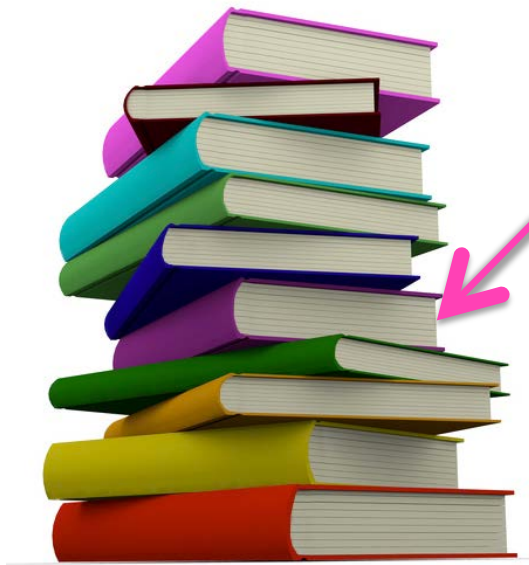


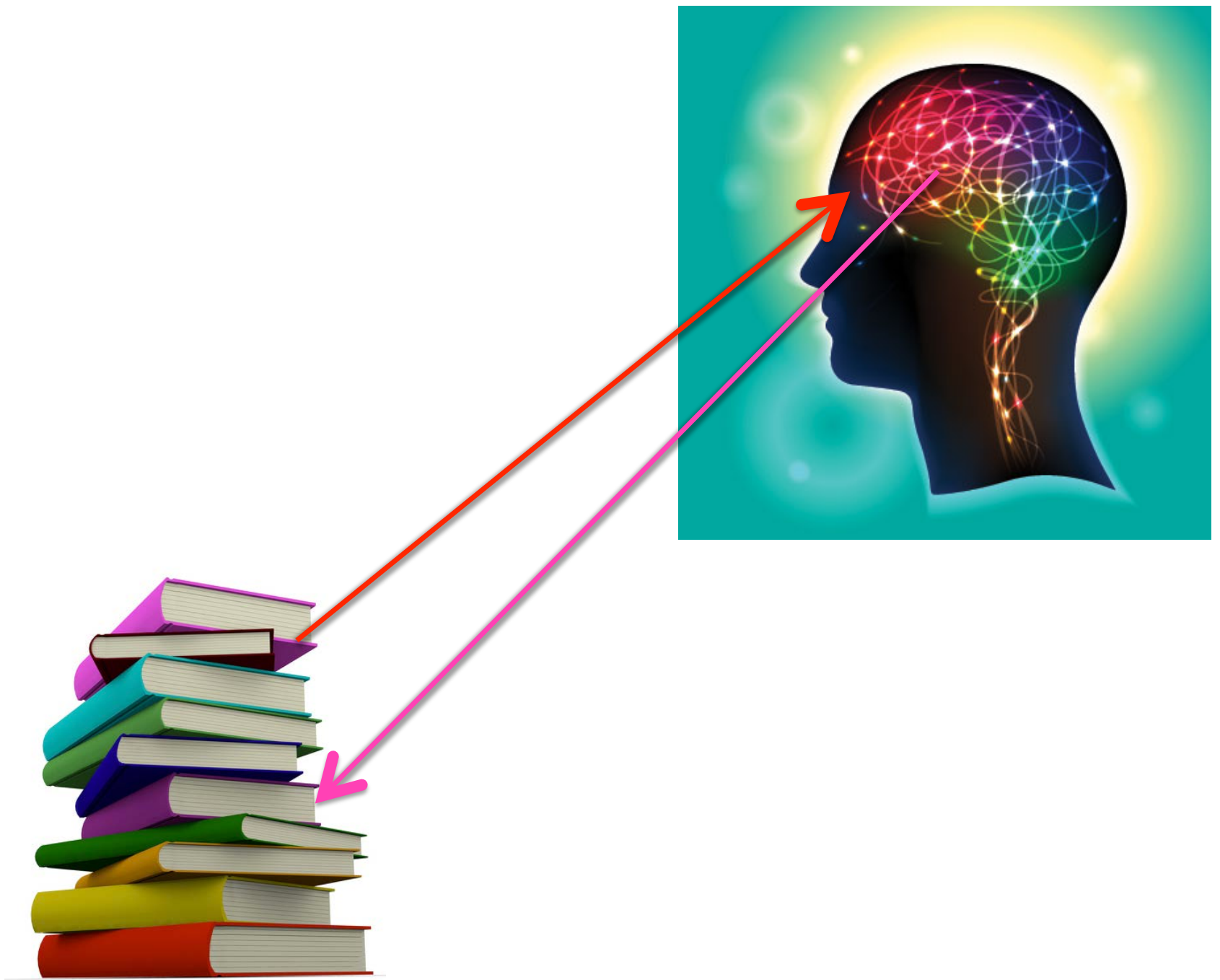
**texts typically
have more
rare words
than
conversations/
oral language.**



KNOWLEDGE AND TEXT







Correlation between Background Knowledge & Comprehension = .94

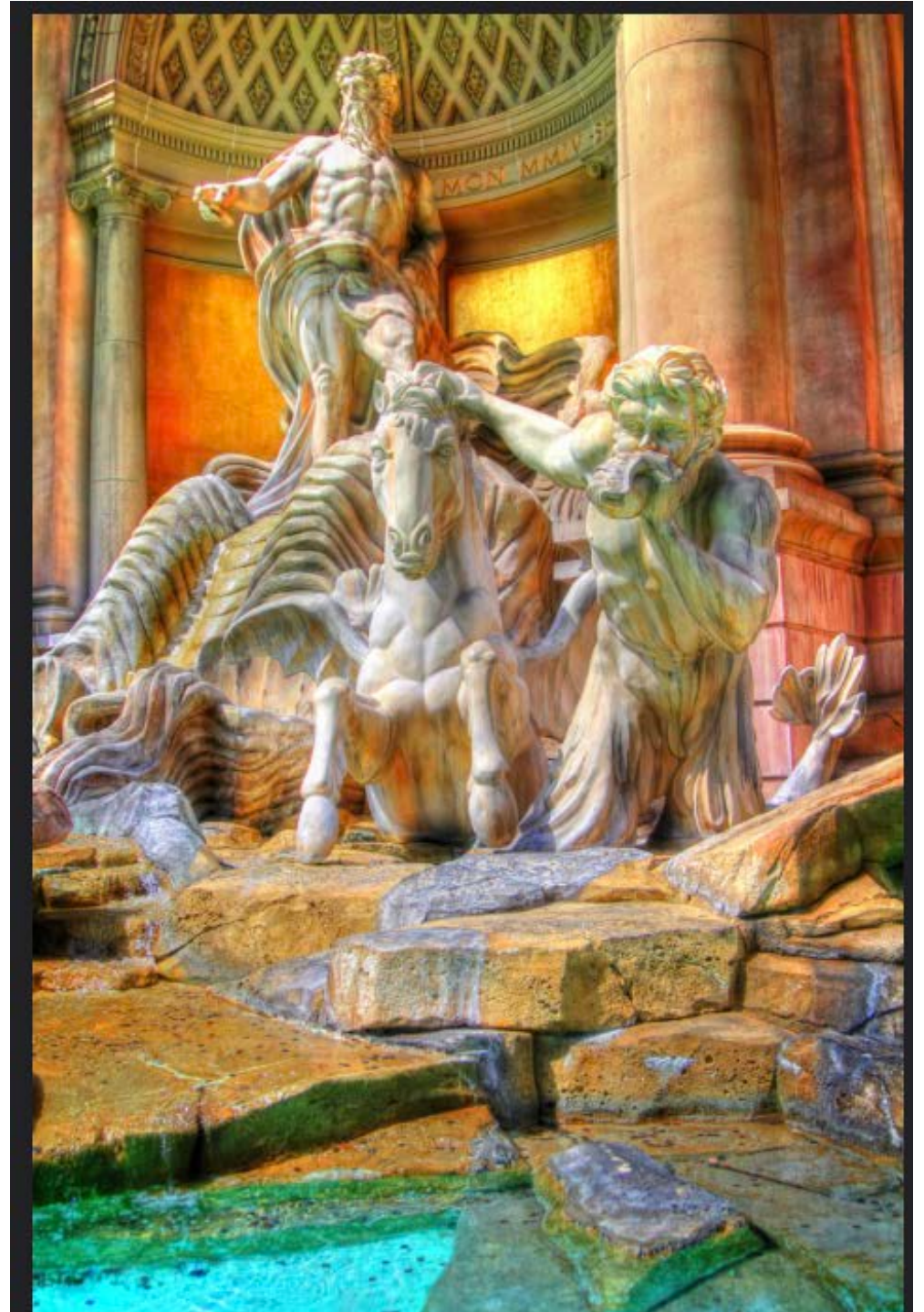
Reading for Understanding Network Study of Comprehension in Grades 7-12

Slide is from the presentation of David Francis (April 19, 2013). CCSS Assessments and Students with Disabilities and English Language Learners. Plenary session at Institute on Assessment in the Era of the Common Core State Standards, International Reading Association.

Every motion was elegant choreography, each fold an artful rendition of an exact science. Two days of insistence had finally convinced her to share her secrets. This was the initiation. Her price was his rapt attention.



I don't mean to put a damper on things. I just mean we ought to treat fun reverently. It is a mystery. It cannot be caught like a virus. It cannot be trapped like an animal. The god of mirth is paying us back for all those years of thinking fun was everywhere by refusing to come to our party.



Before letting her go, scientists attached a special pop-up satellite tag to the white shark. A month later the tag automatically popped off the shark, floated to the surface, and sent data to an orbiting satellite.



KNOWLEDGE & VOCABULARY

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A KNOWLEDGE-CENTERED ELA PROGRAM

Deep
knowledge
of some
topics



Broad Knowledge Of Many Topics



1. READING FOR DEPTH

ANCHOR TEXT: SHORT STORY

The Seventh Man

Haruki Murakami

A man recalls a childhood tragedy that changed his life forever.



ANCHOR TEXT: OPINION PIECE

The Moral Logic of Survivor Guilt

Nancy Sherman

Does it make sense to feel guilty that you survived when others didn't?



MEDIA: PODCAST

The Key to Disaster Survival? Friends and Neighbors

Shankar Vedantam

Who is more helpful during and after a disaster: friends and family or emergency services?



NARRATIVE NONFICTION

The Voyage of the James Caird

from *The Endurance*
Caroline Alexander

Can six men sail a small boat into fierce, icy seas to find help for their stranded Antarctic expedition?



MEDIA: PHOTO GALLERY

The Endurance and the James Caird in Images

Frank Hurley

How incredible is it that a photographer was able to bring back pictures from a harrowing 22-month trip to the Antarctic?



NOVEL EXCERPT

from *Life of Pi*

Yann Martel

Can a young man survive a harrowing shipwreck followed by months in a lifeboat with a surprising traveling companion?



ARGUMENT

The Value of a Sherpa Life

Grayson Schaffer

What are the risks to the Sherpas who guide climbers up the tallest mountain in the world?



POETRY

I Am Offering This Poem Jimmy Santiago Baca

The Writer Richard Wilbur

Hugging the Jukebox Naomi Shihab Nye

Does love help us survive? Do stories, poems, and music help keep us alive?



CONTENTS

Choose one selection. Selections are available online only.

SHORT STORY

To Build a Fire

Jack London

In this tale of the struggle between humans and nature, what is the high price of overconfidence?



SHORT STORY

The Most Dangerous Game

Richard Connell

A big-game hunter is stranded on an island. Can he survive a different kind of hunt?



NARRATIVE NONFICTION

from *Unbroken*

Laura Hillenbrand

Will a World War II American serviceman survive the South Pacific in a tiny lifeboat?



EXPOSITORY NONFICTION

Seven Steps to Surviving a Disaster

Jim Y. Kim

What can you do to increase your chances of survival?



MAGAZINE ARTICLE

Titanic vs. Lusitania: How People Behave in a Disaster

Jeffrey Kluger

Would you have survived the sinking of either of these ships?



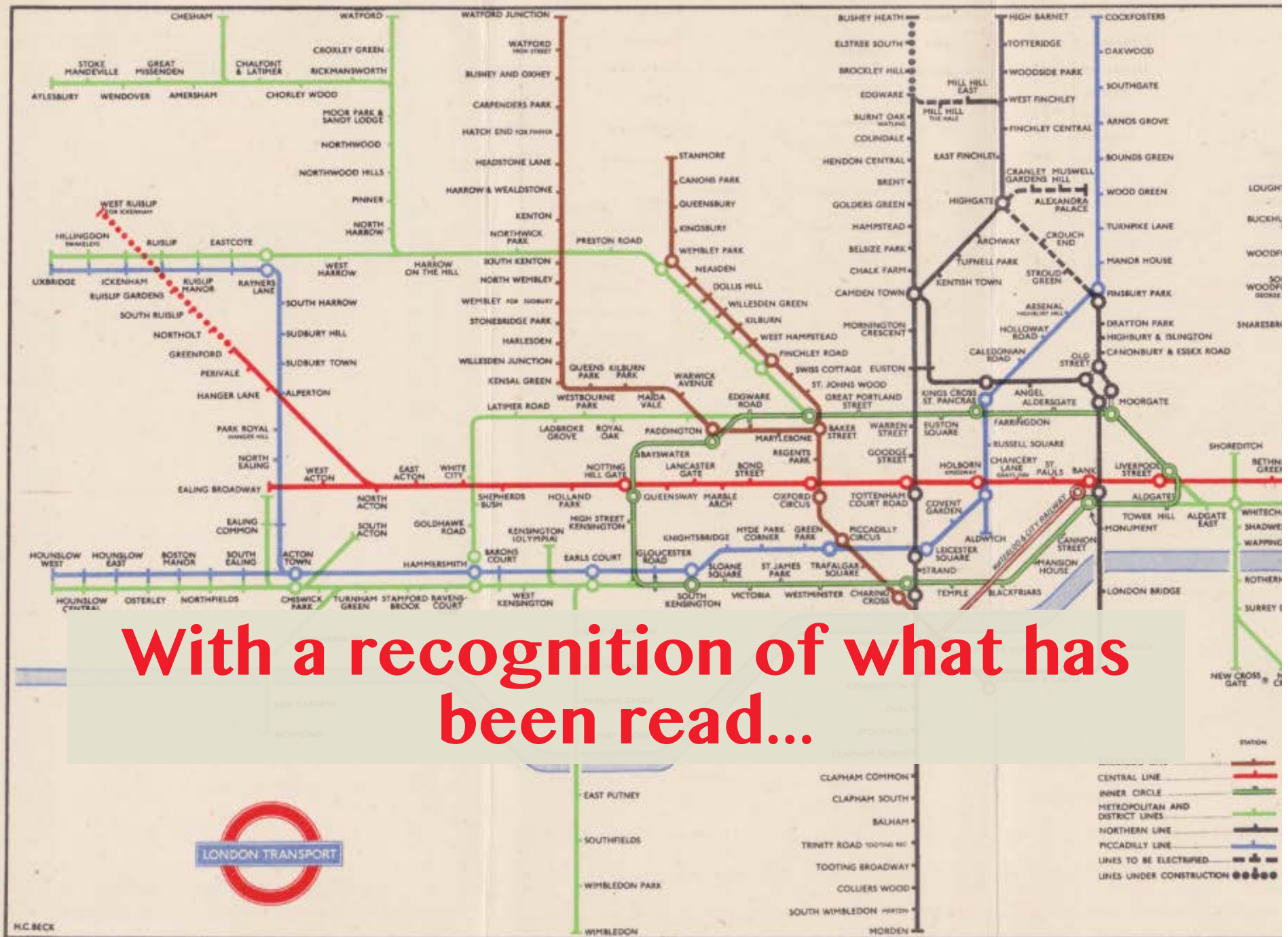
MEMOIR

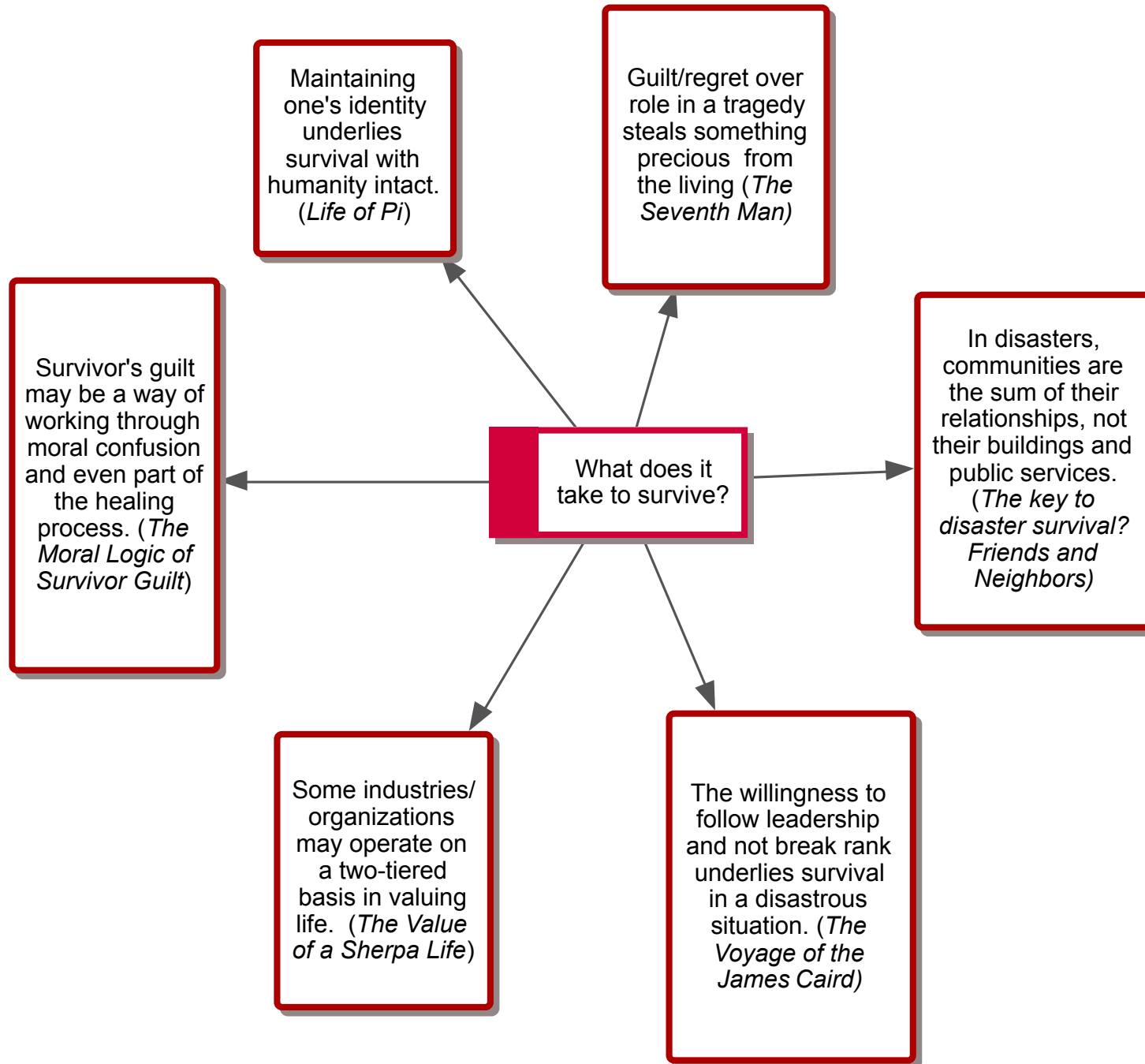
from *Wave*

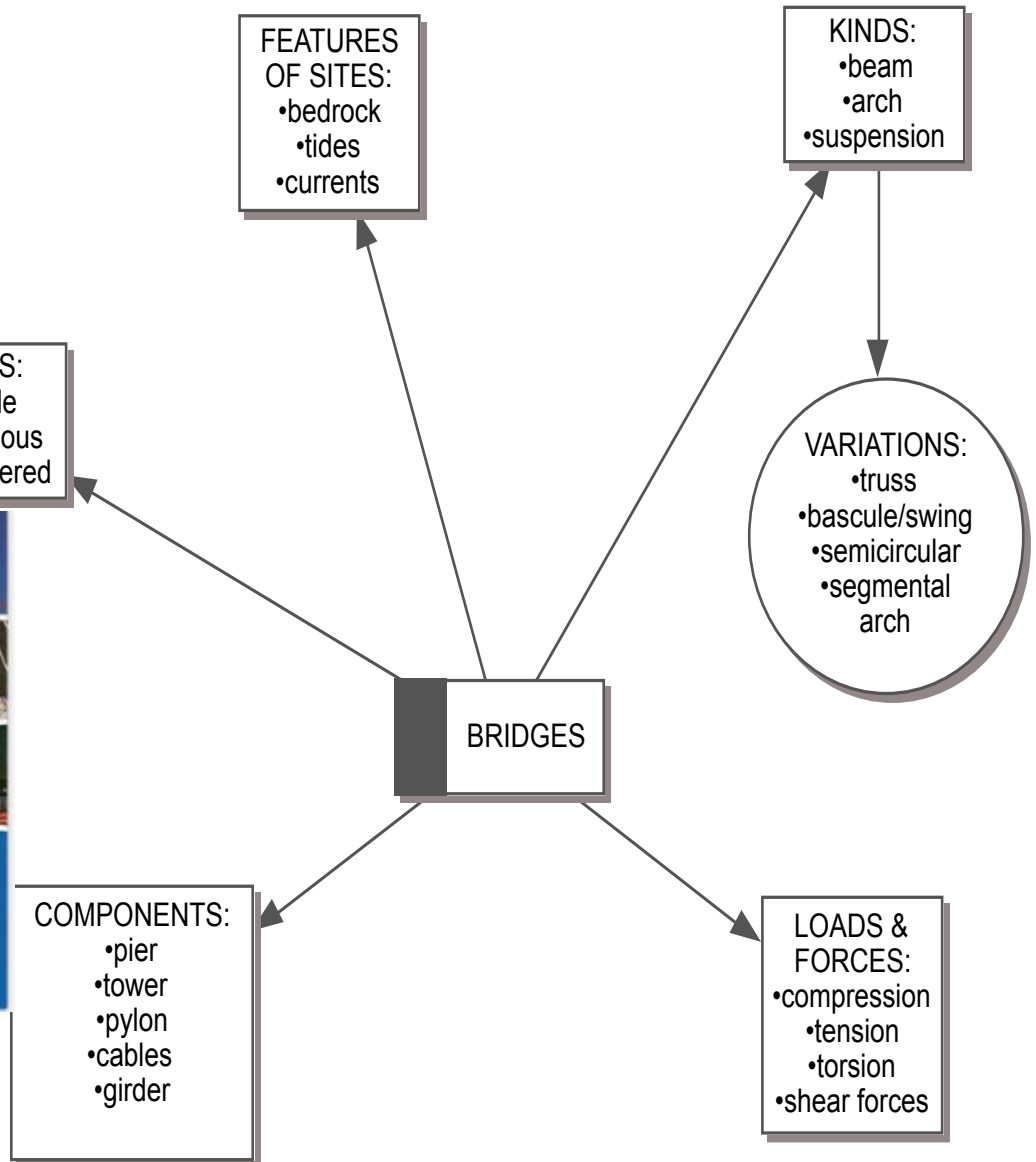
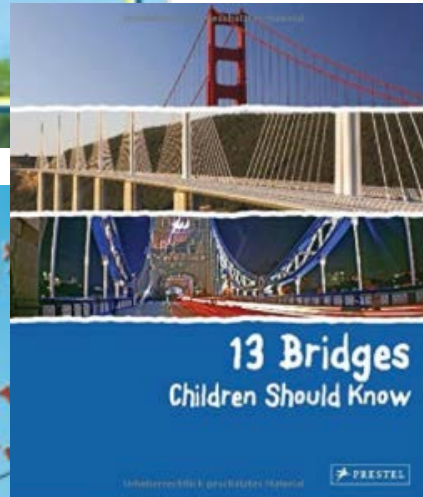
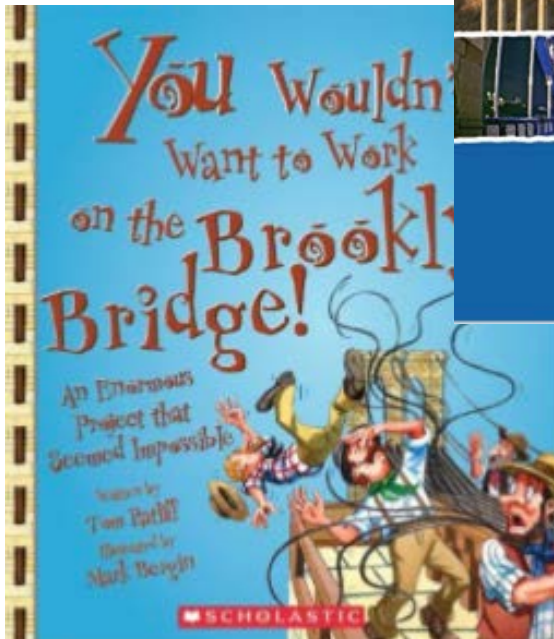
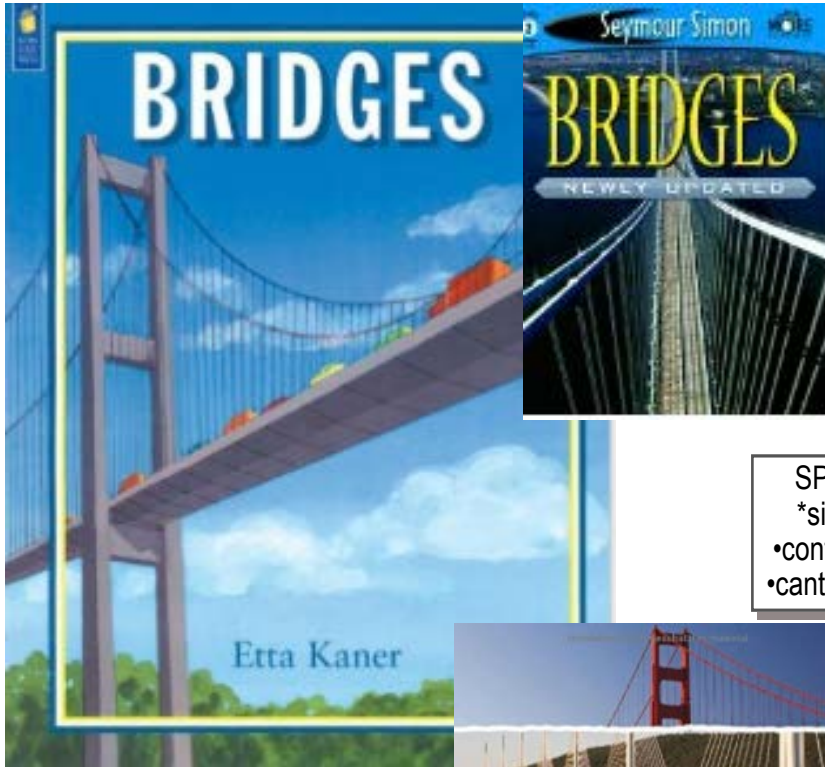
Sonali Deraniyagala

Sometimes your life changes in a blink of an eye.









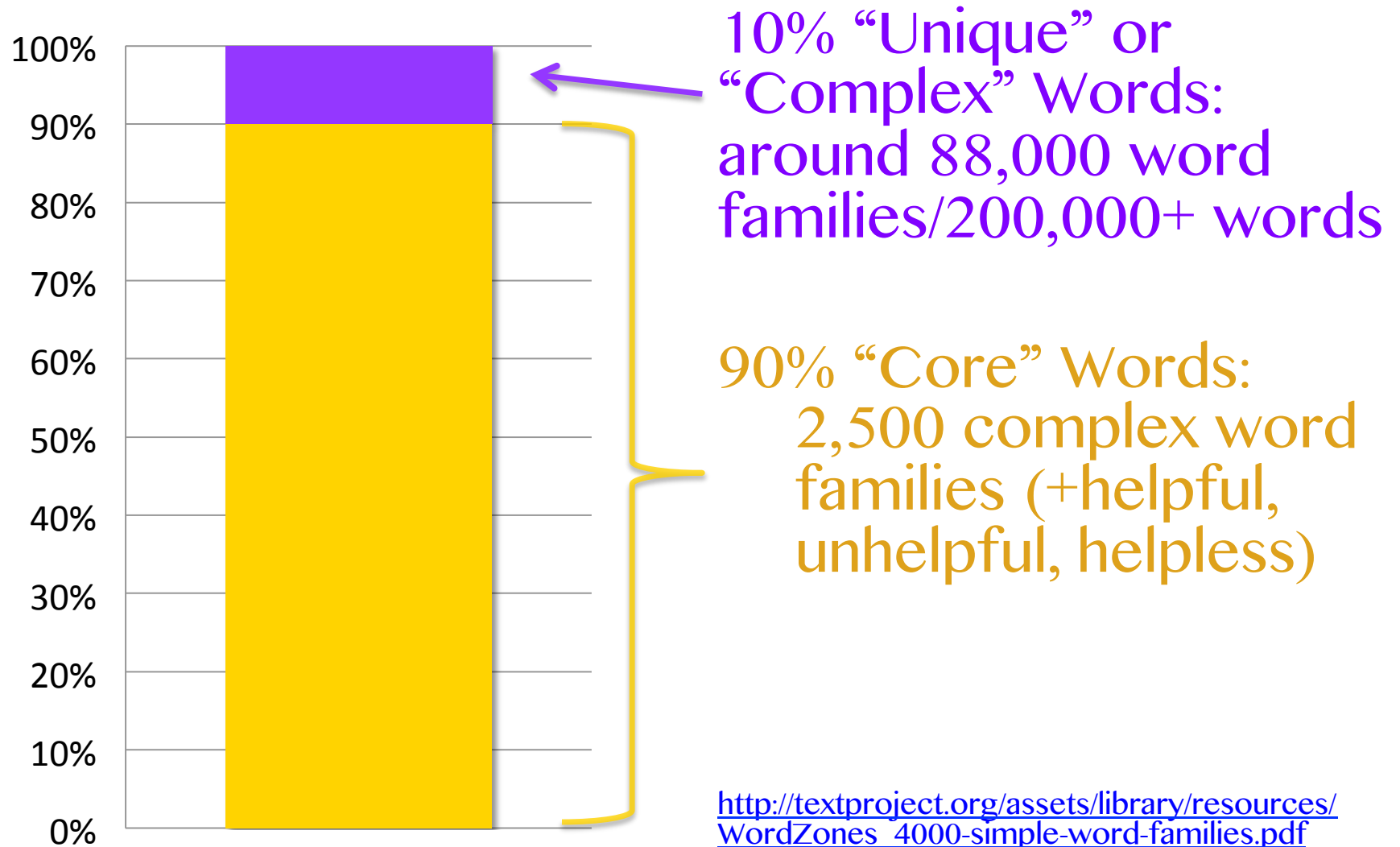


2. Make vocabulary central.

ENGLISH HAS THREE DISTINCT MORPHOLOGICAL SYSTEMS.



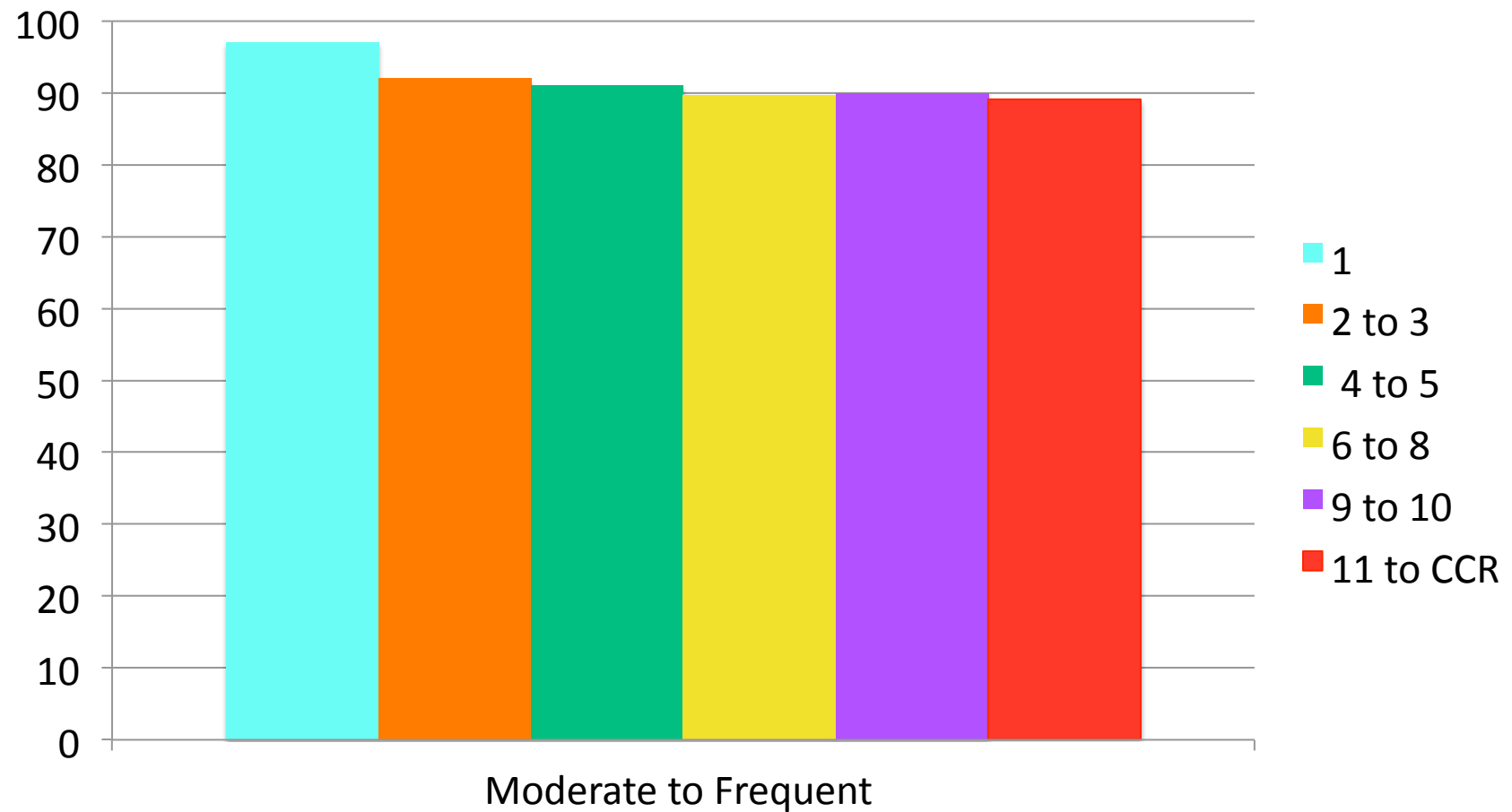
The 90:10 Distribution of Words in Writing



Examples of the Words in the Core Vocabulary

	words
1st 100	the, by, no, through, must
101-300	long, great, put, last, family
301-1,000	power, north, story, strong, answer
1,001-1,500	valley, imagine, motion, nearby, importance
1,501-2,000	character, responsible, design, presence, trail
2001-2,500	mixture, discovery, civilization, attitude, assume

How These Words Appear in Texts



Grade 3 STARR (TX, 2017)

Mrs. Snavin looked at the screen, and then she looked at this book, and then back at the screen again. Then she shook her head and let out this big sigh. I could tell she was almost ready to call Mrs. Reed.

I've always liked computers, and I know how to do some stuff with them. Like turn them on and open programs, play games and type, make drawings, and build Web pages, things like that. So I got up from my desk, pointed at the screen, and said, "Mrs. Snavin, if you double-click on that little thing right there, then the program will start running. And then you click on this, and that opens up the part about number lines."

How did the animal shelter know that Scrub belonged to Noble? How did the workers there know how to contact her? All this information was available because of the microchip that had been placed under Scrub's skin many years earlier. A microchip is a computer chip about the size of a grain of rice that is used to keep track of pets. The chip is placed under an animal's skin with a needle, usually between the pet's shoulder blades. Once the chip is in place, the pet does not feel it anymore. Microchips have helped thousands of owners get their lost pets back.

Grade 5 STARR (TX, 2017)

R2's "brain," or computer, is in its stomach. R2's arms can hold 20 pounds. Each bendable finger has 5 pounds of grasping force. R2's hands are also skillful. Since its hands are shaped like human hands, R2 can use human tools to complete tasks traditionally performed by astronauts. Nic Radford, the deputy project manager of R2, says that astronauts "absolutely have their day packed from the minute they wake up until they go to bed. If Robonaut can provide just an hour's worth of relief to the crew doing something they don't want to do, that would make it worth it right there."

In addition to helping her team at the university, Catchings made a big change in her life. Coach Summitt noticed that players sometimes had to repeat instructions to Catchings while on the court. Summitt convinced Catchings that wearing hearing aids would not only help her be a better player but also help others who were hearing-impaired by allowing her to serve as a role model. Catchings started wearing her hearing aids and eventually began to speak openly about her hearing loss. As Coach Summitt predicted, Catchings has been an inspiration to many children. She has proved that having a disability does not have to be a disadvantage.

Grade 7 STARR (TX, 2017)

Then he zeroed in on protons. "Atoms may be mostly space," he said, "but a proton is nothing but a proton. Small as an atom is, a proton is millions of times smaller. You could squint till your eyeballs pop out and you'll never see one," he said, daring me to try."

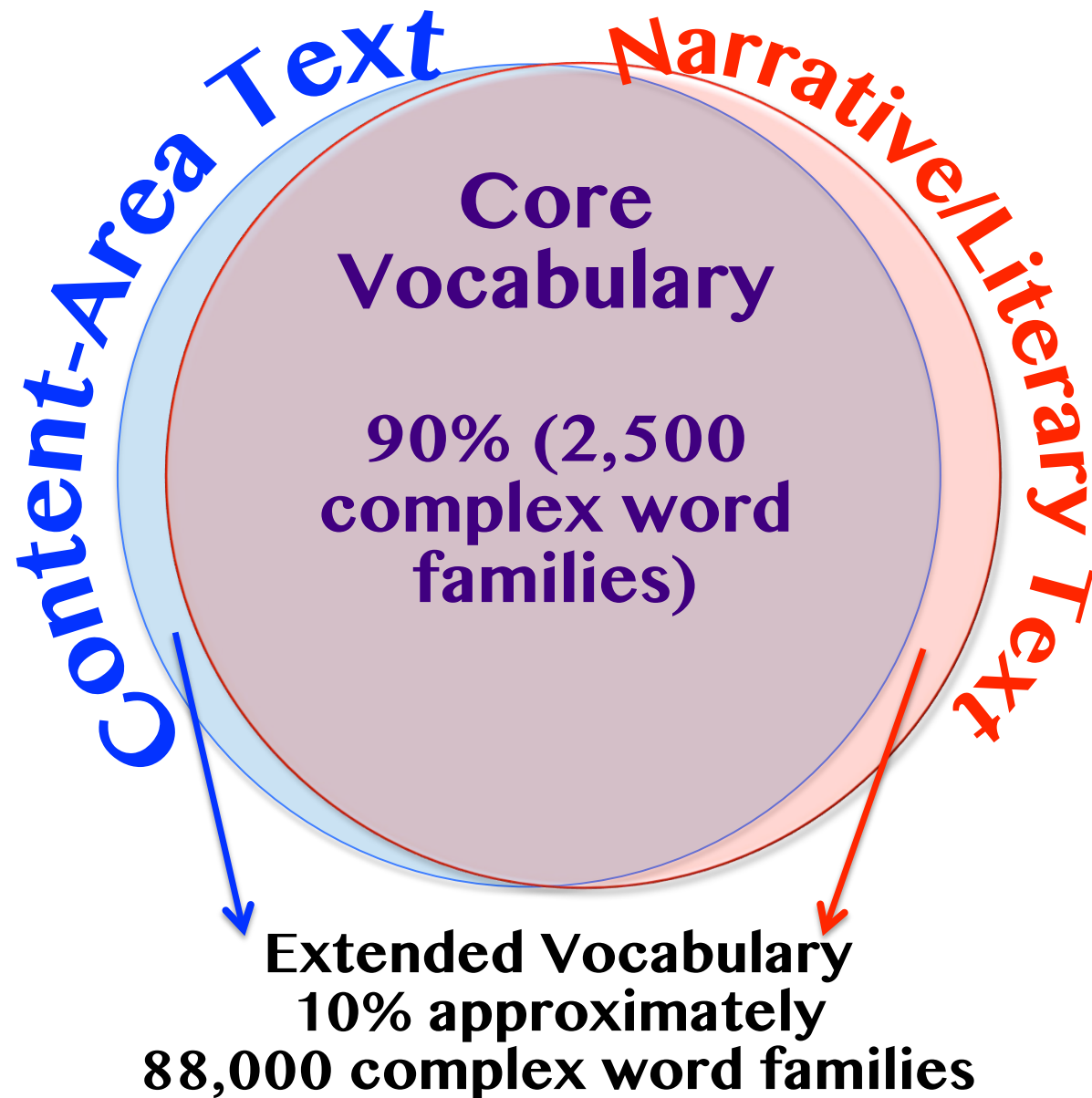
"And you know what the coolest thing about protons is?" he said.

"What?" I said.

He clacked his jawbreaker for a while, building the suspense. "You can't do anything to them," he said. "You can't break them. You can't burn them. You can't blow them up. Atoms you can smash, but you can't smash a proton."

The Global Crop Diversity Trust wants to prevent this by preserving as many varieties of seeds as possible. The assortment at the vault ensures that food supplies can be maintained or replenished if necessary.

The Svalbard Seed Vault opened in 2008 with more than 11,000 seed samples from around the world. It has the capacity to store 4.5 million seed samples. The entry to the vault is a carefully guarded tunnel behind a steel door illuminated by fiber-optic light and sunlight reflected off mirrors. There is no full-time staff at the automated facility, and no single person has all the codes to gain entry to the chambers.



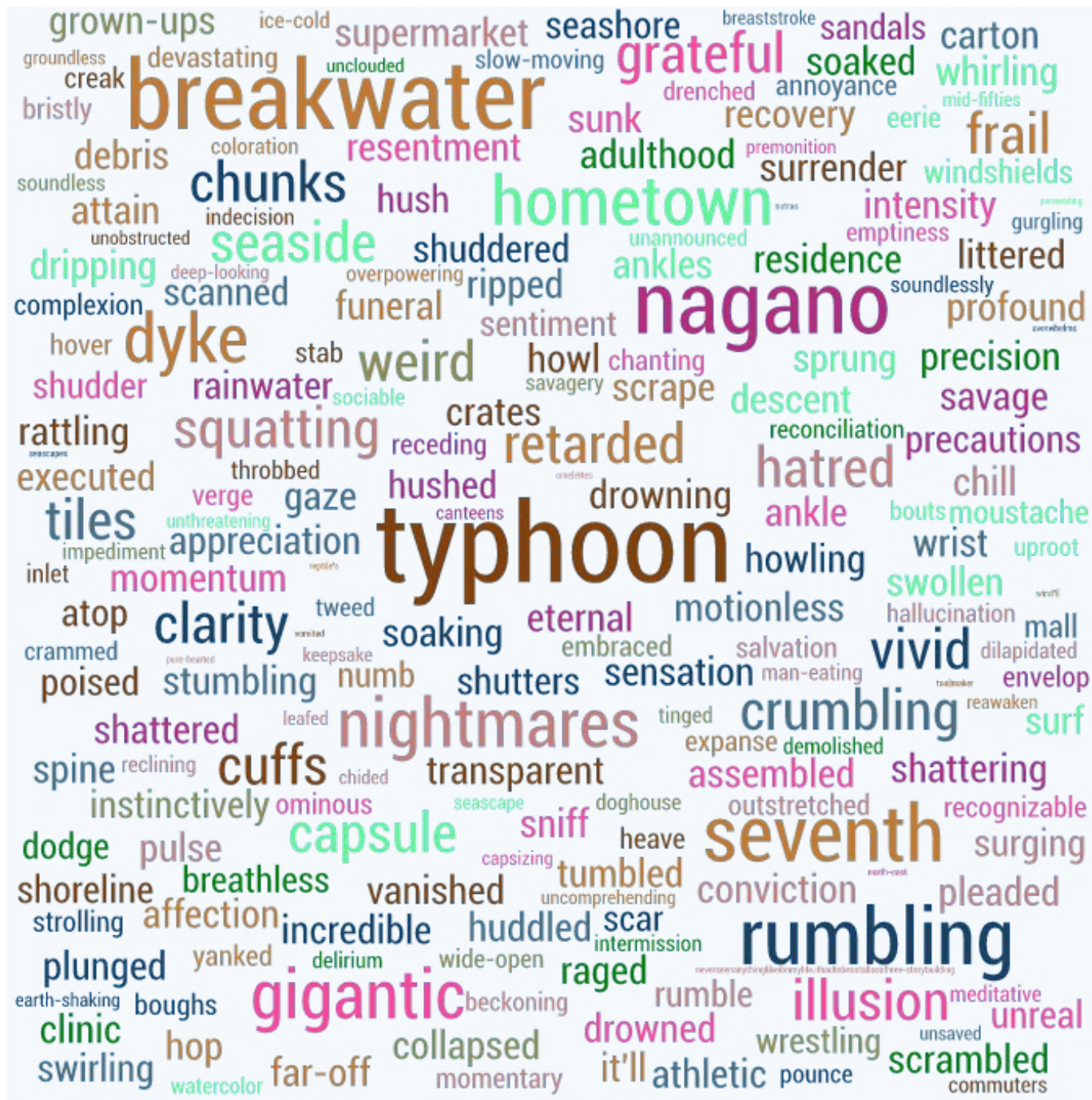
The month of picking **heartberries** went by. Little **Pinch** jumped off a low branch and made a huge **gash** just over his eye. Blood came pouring down and he seemed both proud of himself and sorry for himself, and he **selfishly hogged** attention for his injury to the point where **Omakayas** could hardly bear it. Mama was constantly **preoccupied** with him. Of course, that left **Neewo** more and more to Omakayas's hands, and she didn't mind that.

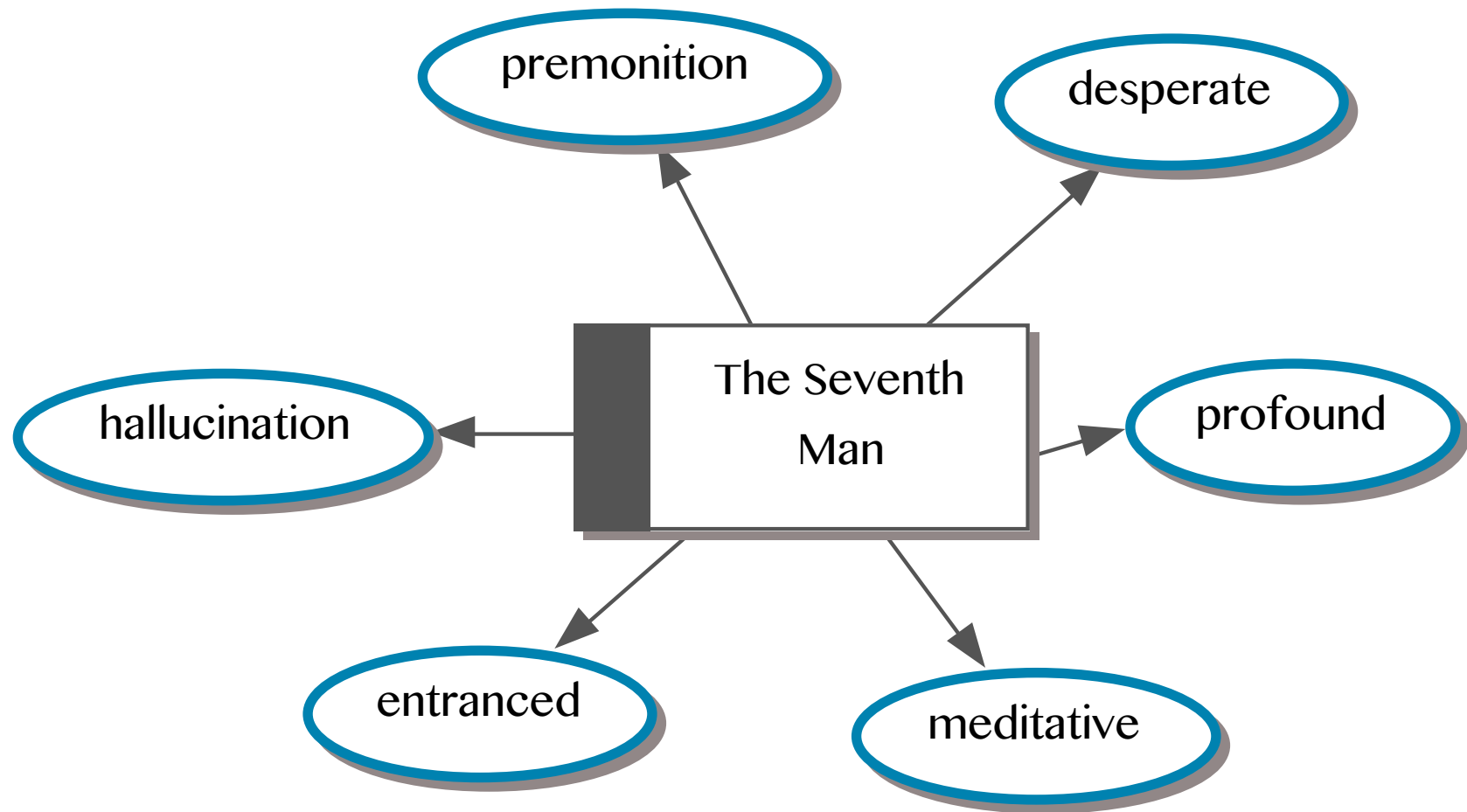
Embryological studies show that each **batch** of four is the result of a single **fertilized** egg, which divides twice. Each of the four resulting cells develops into a **miniature armadillo** which is born in early spring some six months after the adults have mated. All members of a young brood are of the same sex. Young **armadillos** have their shell covering complete, but it remains soft until they become adults, thus allowing for growth.

Even with eyes protected by the green spectacles, Dorothy and her friends were at first dazzled by the brilliancy of the wonderful City. The streets were lined with beautiful houses all built of green marble and studded everywhere with sparkling emeralds. They walked over a pavement of the same green marble, and where the blocks were joined together were rows of emeralds, set closely, and glittering in the brightness of the sun.

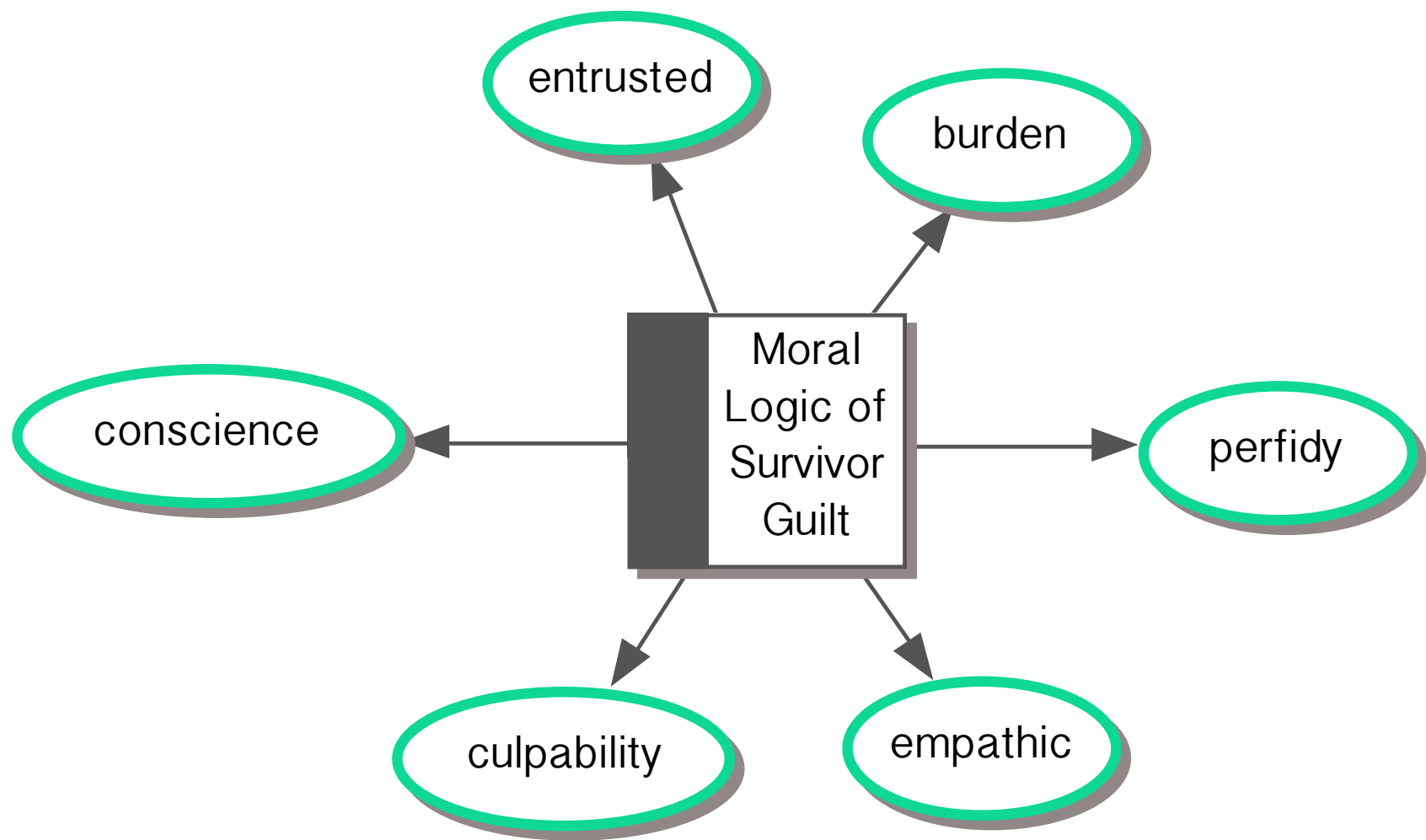
**(b) Networks
in narratives
are
synonyms
related to
story
elements.**

Story Word	Other Possibilities
dazzled	hypnotized awed
brilliancy	effulgence luminosity
glittering	shimmering radiance









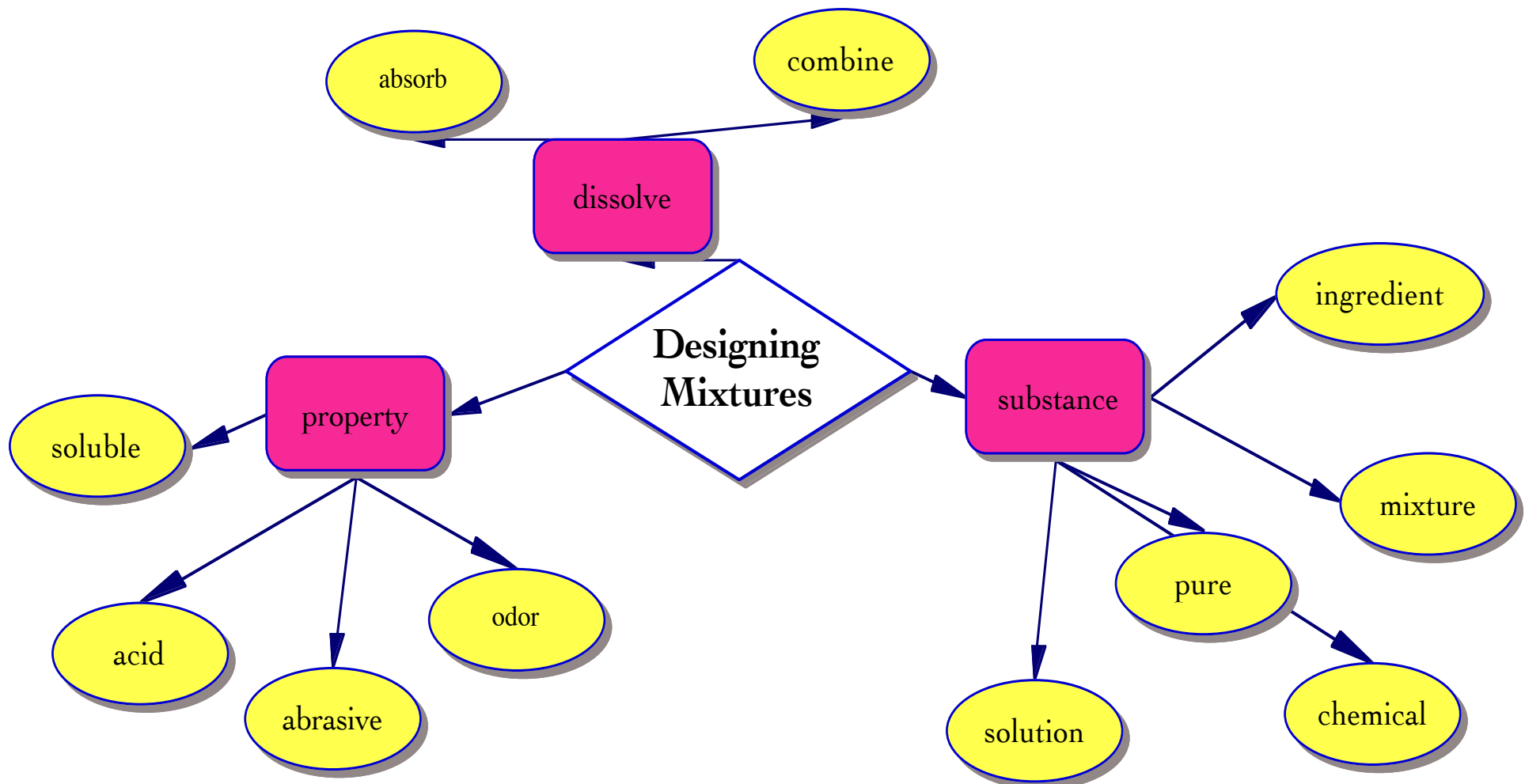


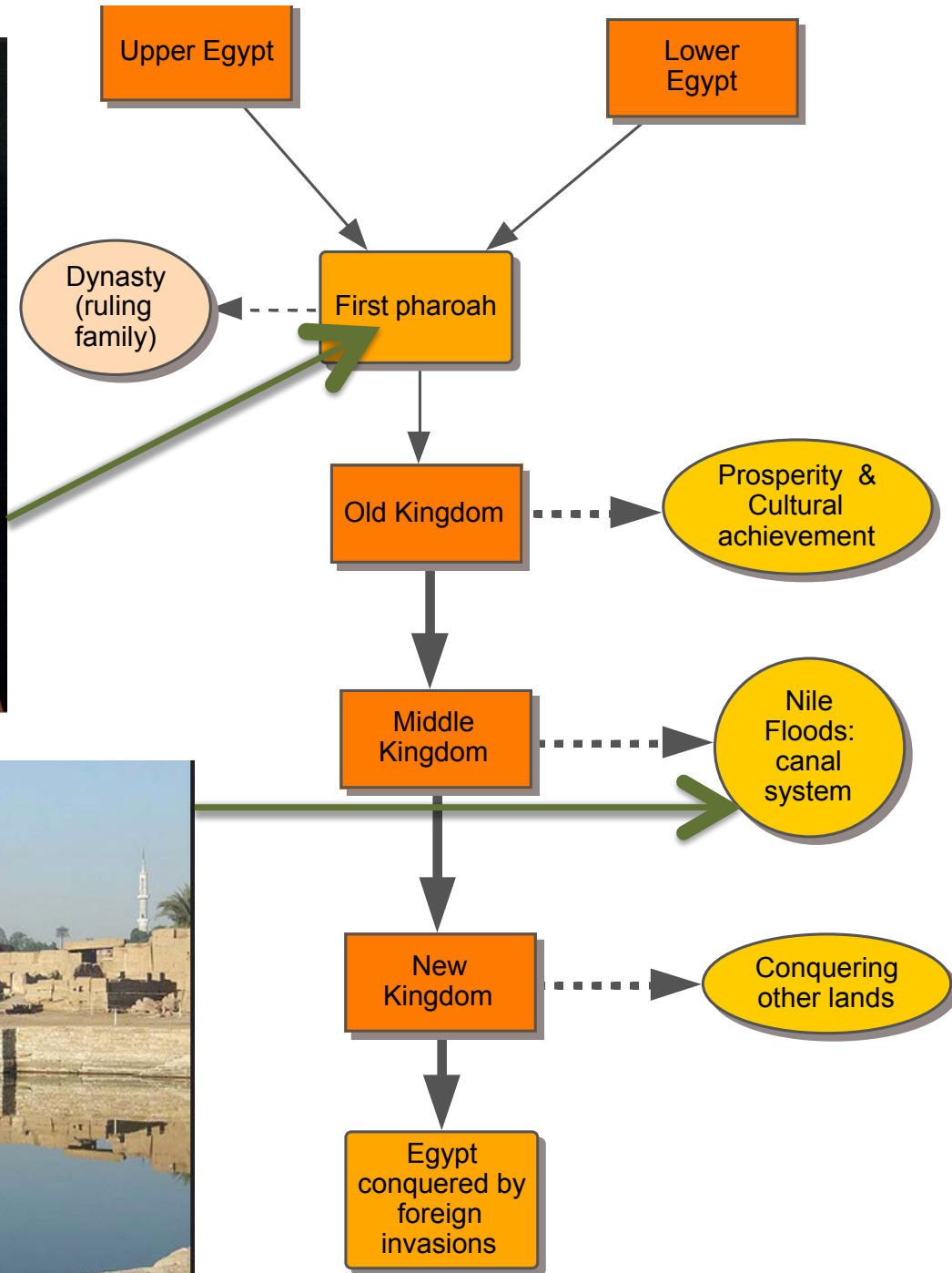
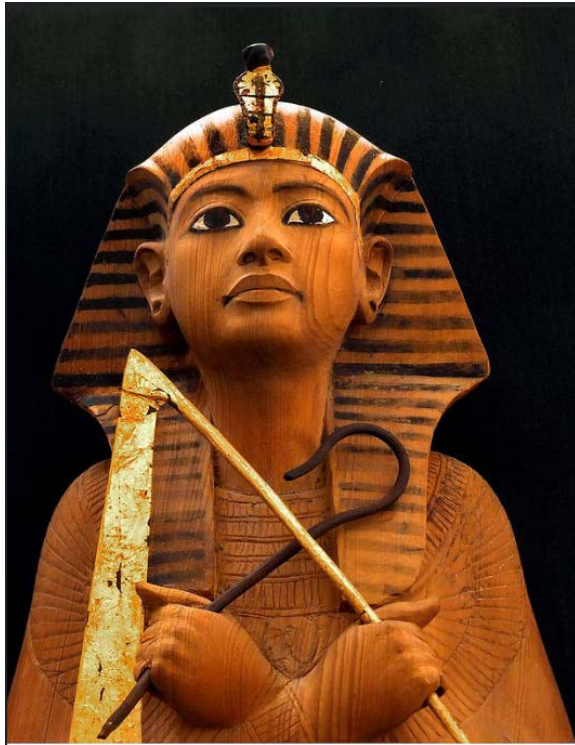
Synonym Networks in Narrative Texts

Prolific Groups of Synonyms

Communication /Internal Processes (verbs)	Emotions (adjectives)	Movement (verbs)	Traits (adjectives)
think	glad	go	funny
argue	sad	send	smart
observe	mad	start	brave
guess	selfish	stop	selfish
say	fear	stay	shy

(c) Rare words in informational texts belong to topical networks.





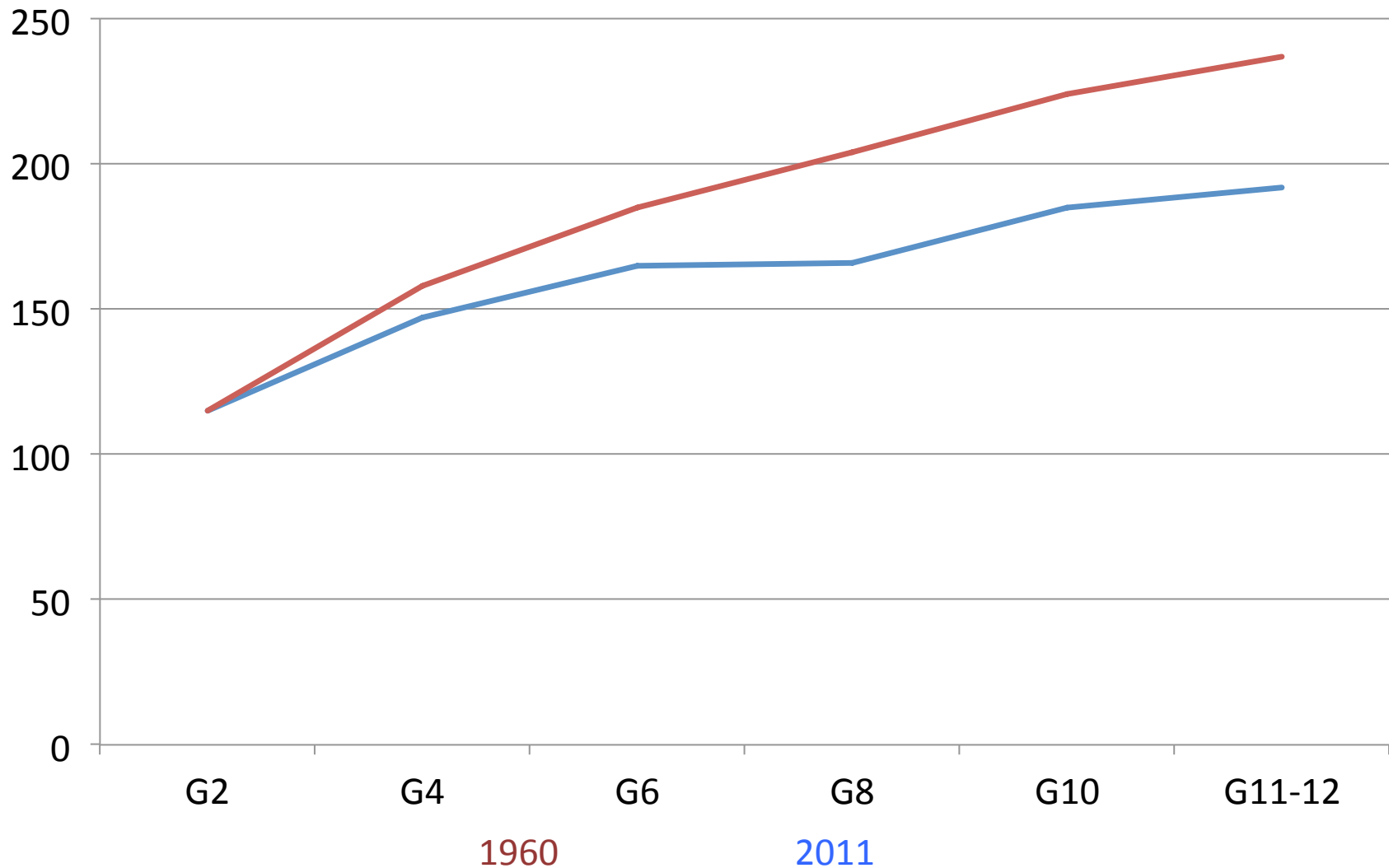
3. READING FOR BREADTH

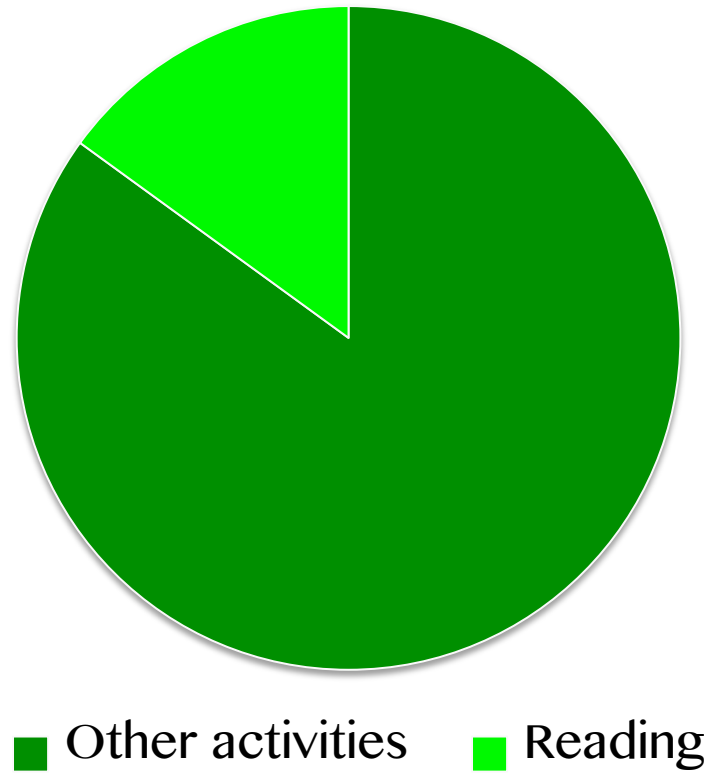
Broad Knowledge Of Many Topics



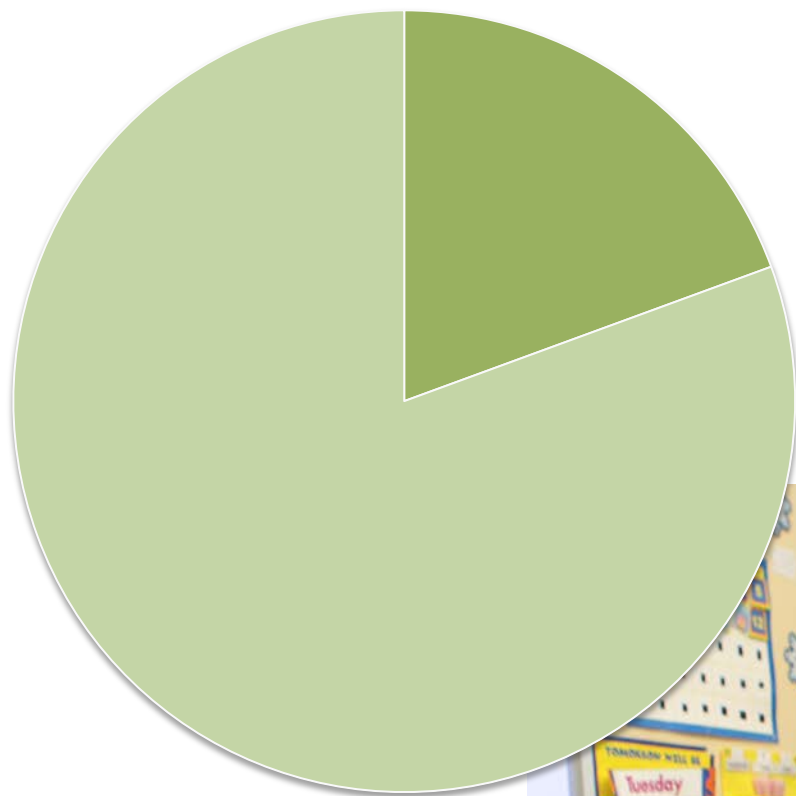
Grade	Topic of Passage
3	•Nar: Student knows more about computers than teacher •Ex: How microchips help owners get lost pets back •Ex: How a bakery empire began with loves of good bread •Ex: The origins of Teddy bears
5	•Nar/Ex: Lewis and Clark expedition from vantage point of Lewis's dog, Seaman •Ex: Cherry-spitting contest in Eau Claire, WI •Poem: Eating cherries •Ex: Biography of WBA player who had a moderate hearing loss •Ex: Description that does tasks to help astronauts •Ex: History and production of Louisville Slugger
7	•Play: A girl's attempt to cut her friend's hair is disastrous •Poem: Descriptions of poplar as lonely, slender, restless •Ex: Actions taken to preserve the Leaning Tower of Pisa - Ex: Restoration of the Cutty Sark •Nar: How a teenager's obsession with protons began •Ex: How seeds are being stored in a vault close to the Arctic Circle

Silent Reading Fluency With Comprehension: 1960 & 2011





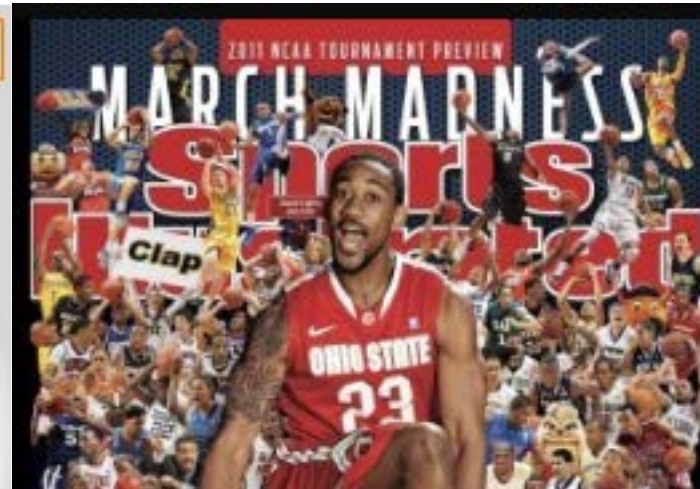
Swanson, Wanzek, McCulley, Stillman-Spisask, Vaughn, Simmons, Fogarty, & Hairrell, 2015.



■ Silent Reading

■ Listening,
Following Along
to Oral Reading





Give students consistent opportunities to read magazine articles.



Counting Endangered Animals

volume 5
issue 2



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Counting animals in the wild is a hard job. To get a hint of how hard it is, try to count all of the birds in a park near you. The difficulty of counting doesn't stop

the International Union for Conservation of Nature and Natural Resources, though. This group publishes a list of the world's endangered animal and plant species.

People from all over the world work with the union to track and count endangered species. Counting endangered animals is hard because some animals are so rare that even scientists hardly ever see them. Other animals live in such large areas that finding them is almost impossible without modern technology. Here are two ways scientists count endangered animals.

Florida panthers are an endangered species. While these big cats once roamed the southeastern United States, only thirty to fifty panthers are left in the wild. Scientists use dogs to sniff them out. After netting a panther, scientists put a radio collar around its neck.

Airplanes with special antennas then pick up signals from the collar. Because the signal from each collar is different, scientists can track specific panthers. The signal also tells whether the panther is resting or moving.

Humpback whales are another endangered species. Scientists locate humpback whales by using underwater microphones, which pick up the whales' songs. Photographs of whales' tails then help scientists identify individual whales. Like human fingerprints, each humpback's tail has different marks. Tail photographs help scientists identify, count, and track whales as they swim through the oceans of the world.

There are many reasons to count animals, but the most important is to make sure a species doesn't die out. Keeping animals healthy can help people, too. Scientists still don't know if a species might be a source of an important medicine or how species help one another stay healthy. Plus, protecting species might help protect the planet.



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- Readworks.org has approximately 3,000 free passages for Grades 1-early high school



**Architecture
The Parthenon**

Architecture, like painting, literature, and other forms of art, reflects the ideals of the people who build it. The Parthenon is the best example of ancient Greek architecture. The structure, created between 447 B.C.E. and 432 B.C.E., tells us a lot about the Greek way of thinking.

In Greece, balance and order were important **principles**¹. The Greeks believed that everything around them happened for a reason. They wanted to find out this reason and discover the order of the world around them. Their buildings were beautiful, but they do not overflow with **frivolity**² or emotion. Instead, Greek buildings define order.

Columns are one **hallmark**³ of classical structure that we associate with Greece and Rome. The Parthenon was built with eight columns on the front and 17 on each side. The building is symmetrical and balanced. Mathematical principles make the design stable. Almost the entire structure is made of marble.

**Architecture
The Duomo**



The Duomo
Florence, Italy

One building, more than any other, marks the arrival of the Renaissance to Europe. Did you know that “naissance” means “birth” in French and that the Renaissance was the rebirth of classical learning in Italy? Art and architecture took off during the Renaissance. Many new **ideas** influenced design. The Duomo, with its grand dome, is a perfect example of new ideas and **innovation**.

Work on the Duomo cathedral, in Florence, Italy, actually started before the Renaissance, in 1296. But the building took 140 years to complete. The **plague**² and many wars prevented construction from continuing on the building as planned. By 1420, the building was almost finished, but there was one serious problem. The plans for the building called for a huge cupola, or dome—bigger than anything built up to that point. No one knew how to build such a dome.

The Influence of the Arch

By ReadWorks



The lasting influence of ancient Rome is apparent in many areas of our contemporary society. Sophisticated elements of law, engineering, literature, philosophy, architecture, and art can all be traced back to the Roman Empire. But perhaps one of the most lasting contributions from Roman civilization is something we see nearly every day: the Roman arch.

An arch is a curved structure designed to support or strengthen a building. Arches are traditionally made of stone, brick, or concrete; some modern arches are made of steel or laminated wood. The wedge-shaped blocks that form the sides of an arch are called voussoirs, and the top center stone, called the keystone, is the last block to be inserted. During construction, the arch is supported from below before the keystone is put in. The curve of an arch may take different shapes, but it is often a rounded or pointed semicircle.

The Party's Over

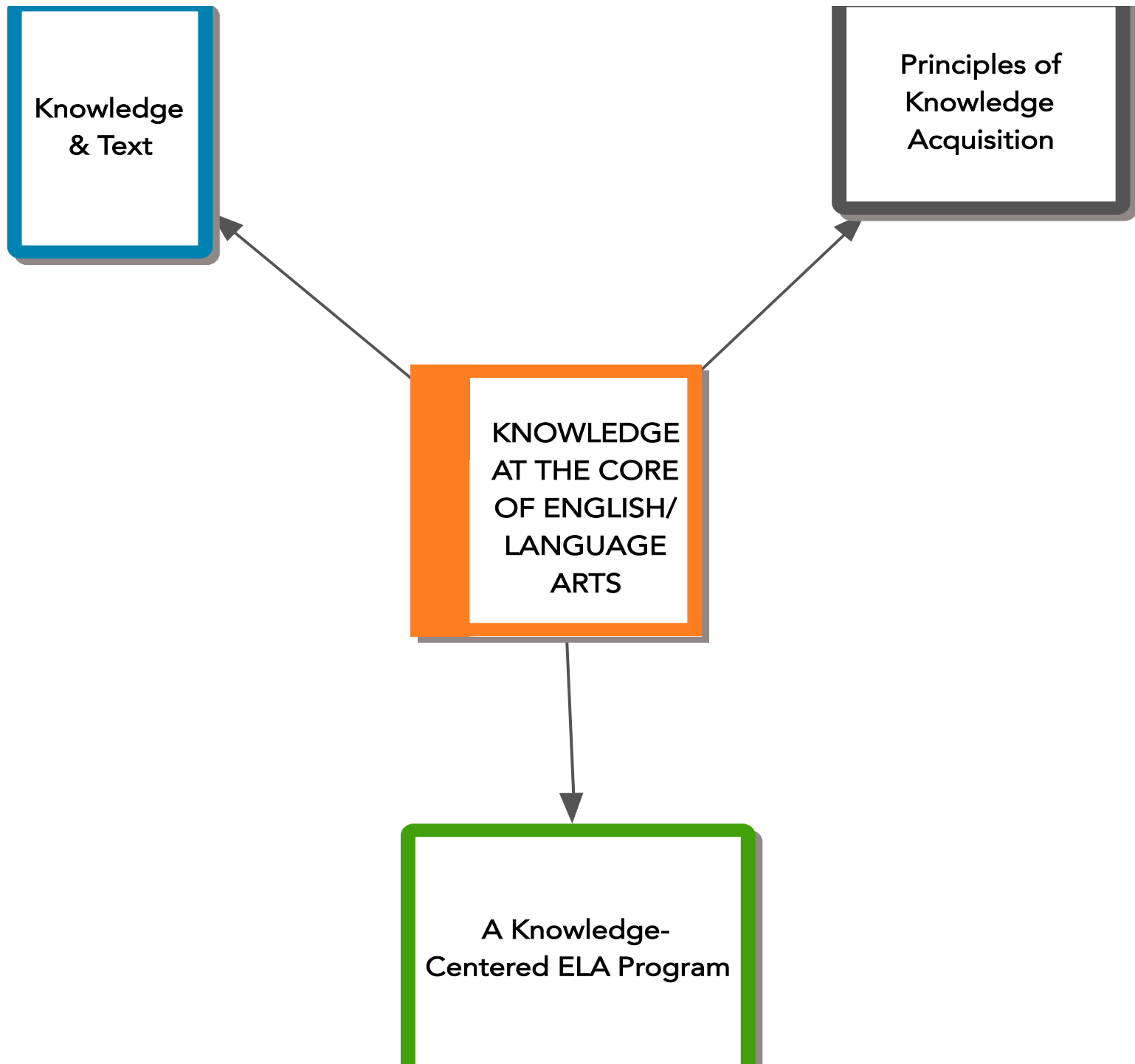
Parties and **stunts** at the Great Wall of China are now against the law. A stunt is a dangerous or an unusual act that is done for attention.



In 2005, Danny Way became the first person to jump over the Great Wall on a skateboard. Over the years, many tourists have climbed the famous wall. Others have jumped over the wall on motorcycles.

Parties and stunts have caused serious damage to the Great Wall, say officials. The Chinese government has now issued new rules to protect the famous landmark.

The Great Wall is the longest structure ever built. It twists and turns for more than 4,000 miles through China. Parts of the wall are more than 2,000 years old.







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