





## What I hope you leave this Talk with

Dyslexia is more than a reading disability it is a different way of thinking and can lead to strengths in areas that we need in science.

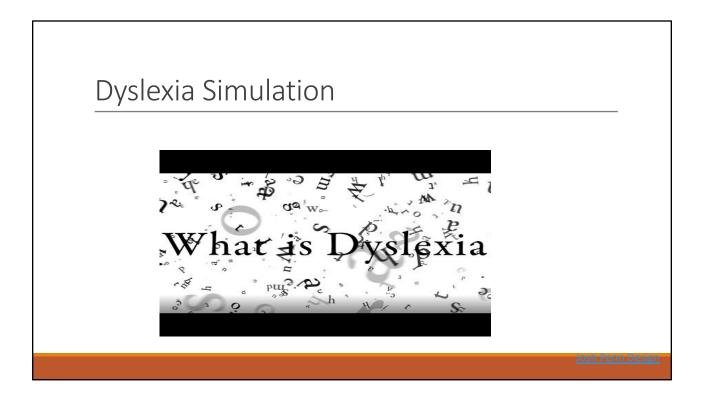


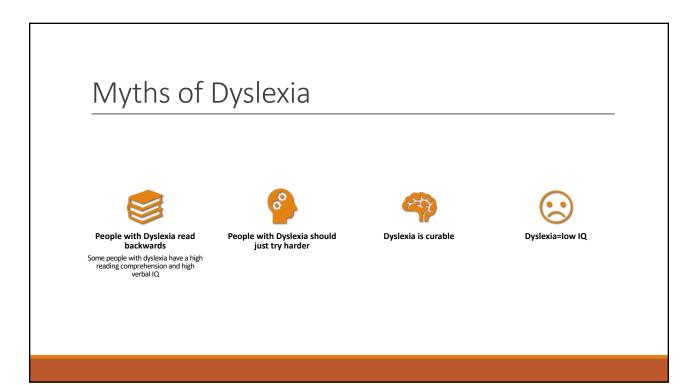
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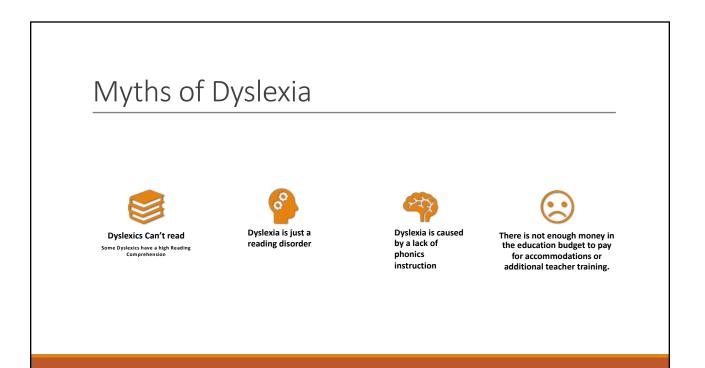
Some of our most famous scientist are thought to be dyslexic

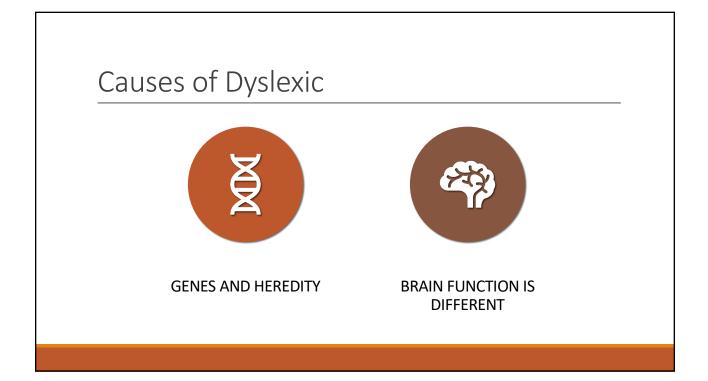


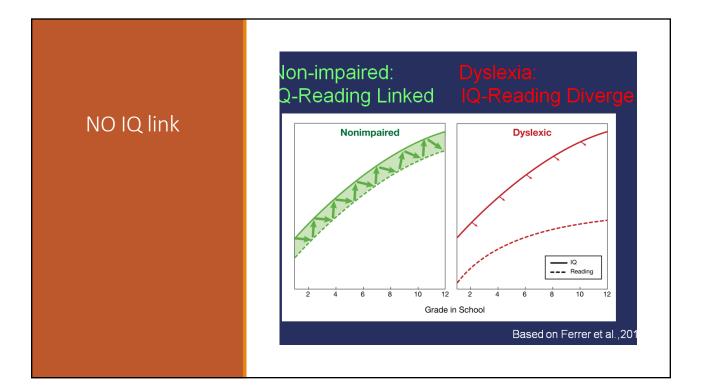
Indivualizing a plan for a student will not take away from the classroom, and small changes can make a big difference

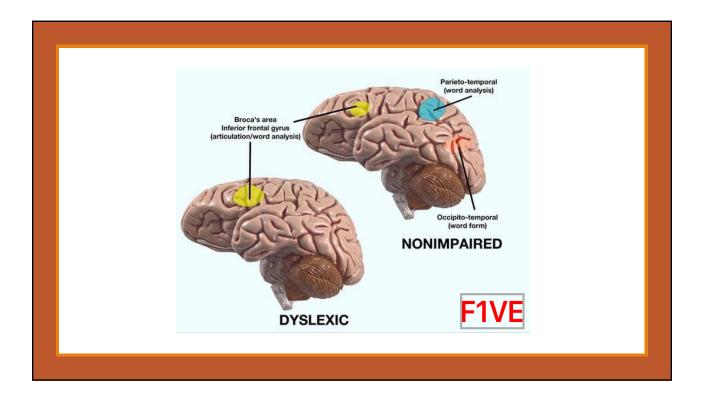


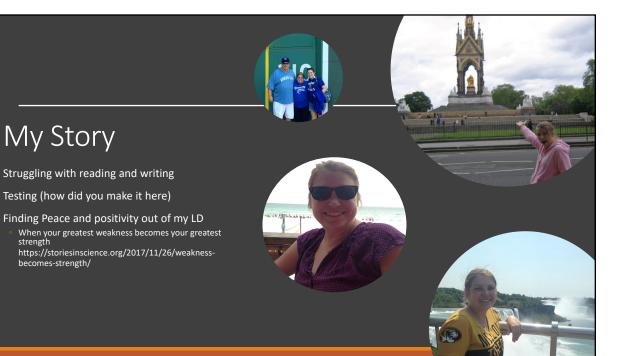












#### What I learned Personally

Tenacity Work Ethic Problem Solving Motivation Compassion



YOU is KIND YOU is Smart YOU is Important

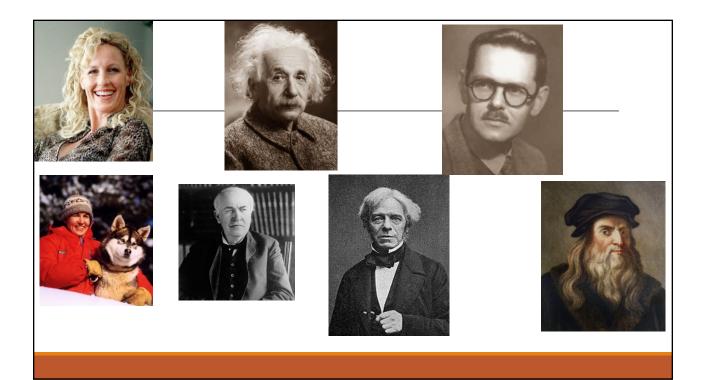
~ aibeleen Clark

### Champions in your life

The school drop-out rate of dyslexics can be a high as 35%, twice as the national average school drop-out rate of many countries

It has been estimated that barely 2% of dyslexics enrolled in undergraduate programs in the USA complete the requisite 4 years of study.

Silver L. Learning Disabilities & Attention Deficit Hyperactivity Disorder. From: International Dyslexia Association American Dyslexia Association



#### Hope

40% of self made millionaires are dyslexic

*dyslexic engineers*, artists, computer designers, architects, inventors, film producers, actors and entrepreneurs are twice as much than in the general population

### Where there is no vision, there is no hope.

George Washington Carver

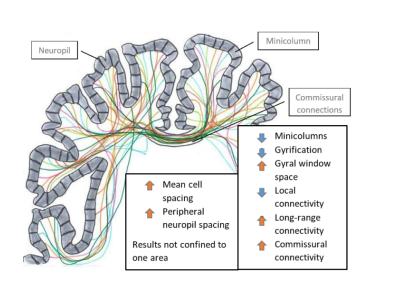
#### **☆**BrainyQuote



Overall Dyslexia Can be a Gift

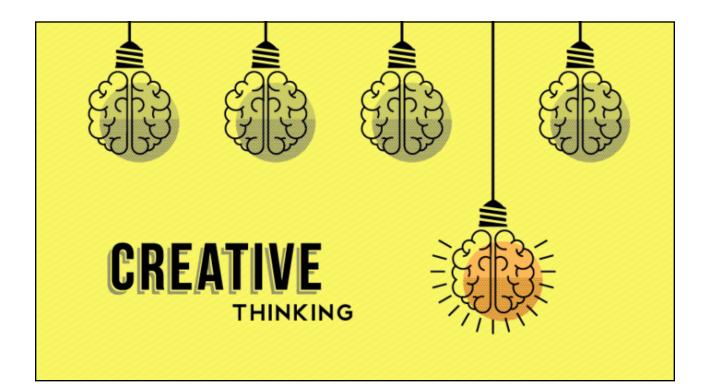
#### Difference in Thinking

Dyslexics brain structures create more long-range connections than a "typical" brain structure and fewer local connections. More long range connections also causes them to have more connections between the two hemispheres of the brain than "typicals"



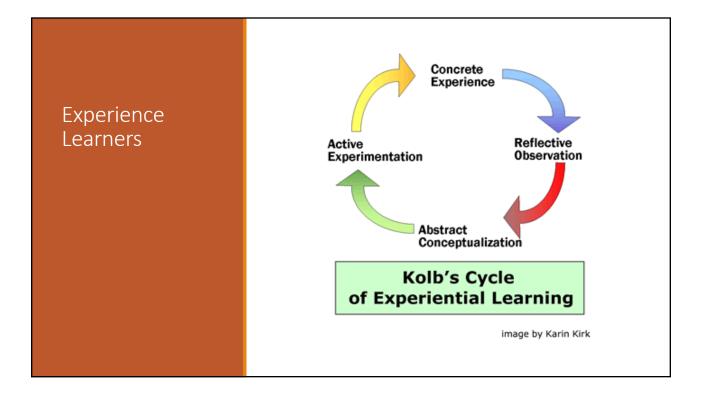
This visual interpretation was created by Jennifer Plosz based off of information gathered from Manuel Casanova's work. It is not meant to be a literal rendering, but rather an explanatory one – proportional differences are exaggerated.

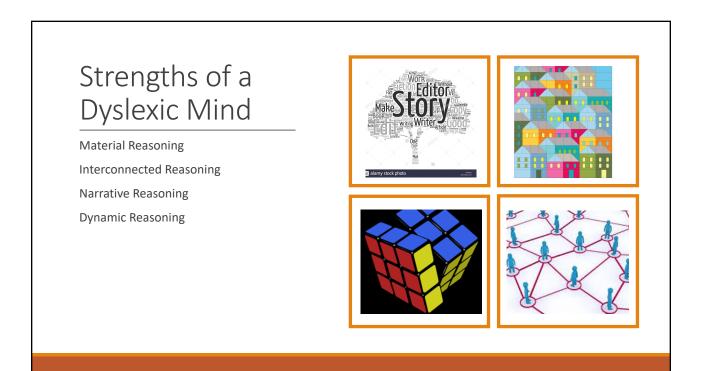


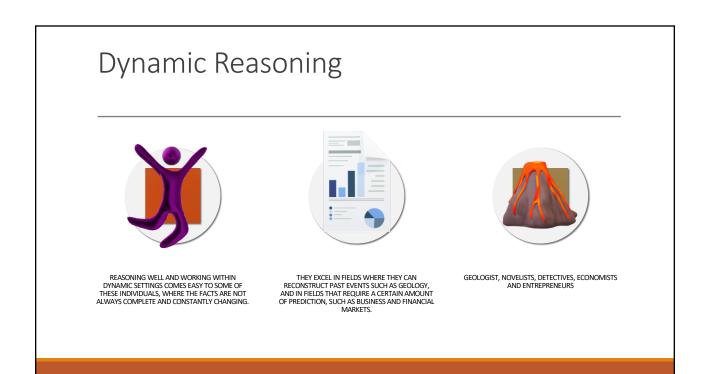




**Big Picture Thinkers** 









### Interconnected Reasoning

Interconnected reasoning is being able to see the unique connections that others often miss.

It is being able to create a web, just like a spider does, where everything is connected.

It's taking in different perspectives and approaches and creating a big-picture view.

Many talented naturalists, artists, designers and scientists have this strength that comes with having Interconnected reasoning

## Material Reasoning

Material Reasoning is being able to take a 3-D perspective of physical objects in your mind. It is similar to spatial reasoning.

This is a very useful skill, and this skill helps to create many important inventions such as the chairlift pictured on the left.

If you like building with Legos, chances are you have a Material Reasoning Strength!

Many great engineers, designers, architects, mechanics, inventors, builders, and surgeons have had this Material Reasoning.

#### Narrative Reasoning

Narrative reasoning is being able to create vivid "mental scenes" to display important ideas and concepts from the past, present or future.

It is having a great personal memory (aka episodic memory).

It's being able to write so vividly that others can imagine it clearly.

Many talented authors, screenwriters, lawyers and public speakers

## Tips that have helped me

Solve problems to remember the material (Anything I can apply I can remember)

Natural Reader Program For Checking For Writing Mistakes

Fonts make a difference

Color coding

### Conclusions

Inclusion is about making the chemistry community bigger

It's about appreciating each other unique perspectives that our experiences and abilities have given us

People with disabilities have unique perspectives and unique abilities.



# Acknowledgements

Chemist with Disability Committee BGSU

