

# Empowering Students with Assistive Technology

Mike Frawley



Woodlynde School

*Ready for College. Ready for Life.*

# Some Background

Temple University -  
Elementary and Special  
Education

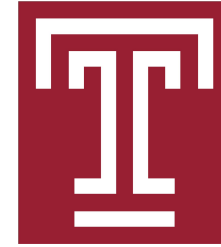
Teacher of record for grades  
3, 6, 8, 9, 10, 11, and 12

Barnes & Noble

Woodlynde - Director of  
EdTech

Bronx >> Philly >> The 'Burbs

Married since 2018



**BARNES  
& NOBLE**



**Woodlynde School**  
*Ready for College. Ready for Life.*





# Read & Write

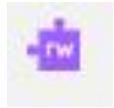
TEXT-TO-SPEECH! INSTANT OUTLINES! BUILT-IN DICTIONARIES!

# Free vs. Paid

- ▶ Teachers get FREE premium accounts:  
<https://www.texthelp.com/products/free-for-teachers/>
- ▶ Students get a 30-day free trial of premium before you have to buy a license.
  - ▶ Pricing changes based on the size of the order, so contact Texthelp for a quote.
- ▶ The basic (free) version only includes text-to-speech and limits all other functionalities.

# Text-to-Speech

- ▶ On a website or in a Google Doc, click the puzzle piece



- ▶ Highlight the text you want to start reading

The songs below all touch on the  
control, tec

- ▶ Click Play



# Screenshot Reader

- ▶ Click the Screenshot Reader button



- ▶ Draw a box around the text you want to read
- ▶ Play, pause, or close the box when you're finished listening

- The author who lost his cool
- What happened when Gen X grew up
- The book that shaped a Nordic identity

Satire has been around **d for** a very long time. In one of its oldest recorded forms, painted papyri from ancient Egypt, the natural order of things is amusingly turned on its head. A **3,000-year-old papyrus** in the British Museum shows a lion playing a board game with a gazelle (later in the sequence the two animals are having sex) and a **herding geese**. This is satire at its most gentle, very obliquely poking at the status quo, but if we view it as a cartoon it seems a direct ancestor of the cartoon satire of our day, such as **Doonesbury** by Garry Trudeau or the **gags** in the animated TV series **The Simpsons**.

*Political satire often sets out to do as much damage as possible, to sweep away; this perhaps accounts for its savagery*

John Mullan, Professor of English at University College London is a literary polymath, but his most recent book, **The Artful Dickens**, portrays Dickens as an ingenious satirist and "innovator who broke all the rules".) When asked if satire should set out to change the world, Mullan tells BBC Culture, "Satire is a negative art – it does not come

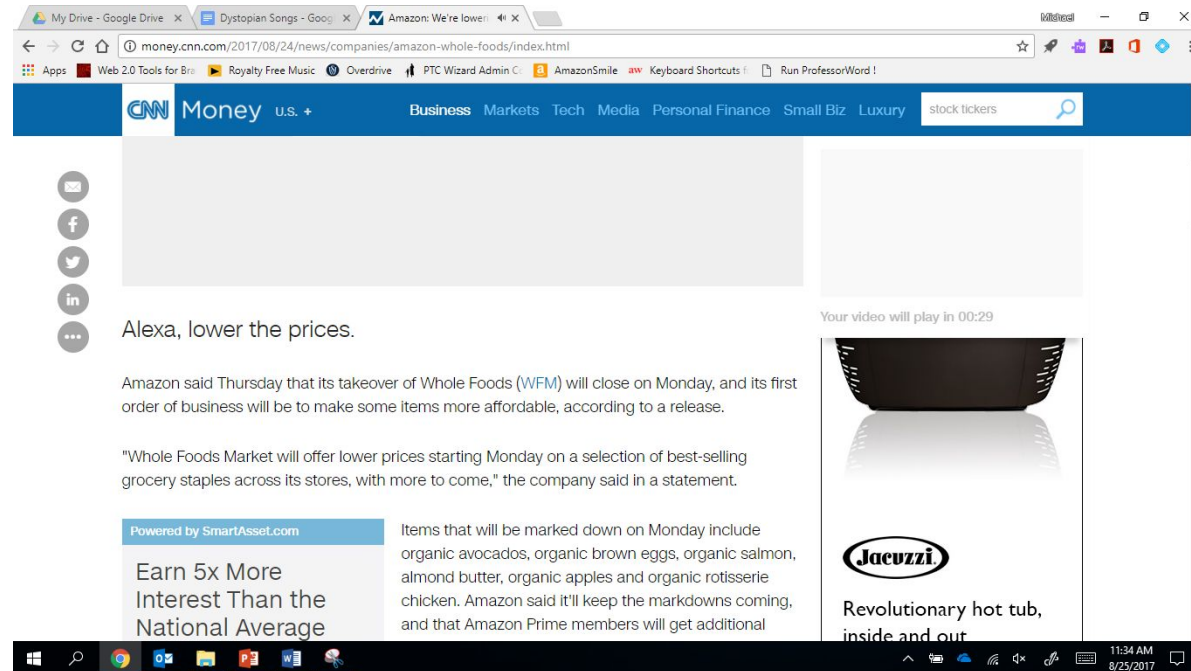
RECOMMENDED



CULTURE  
The art

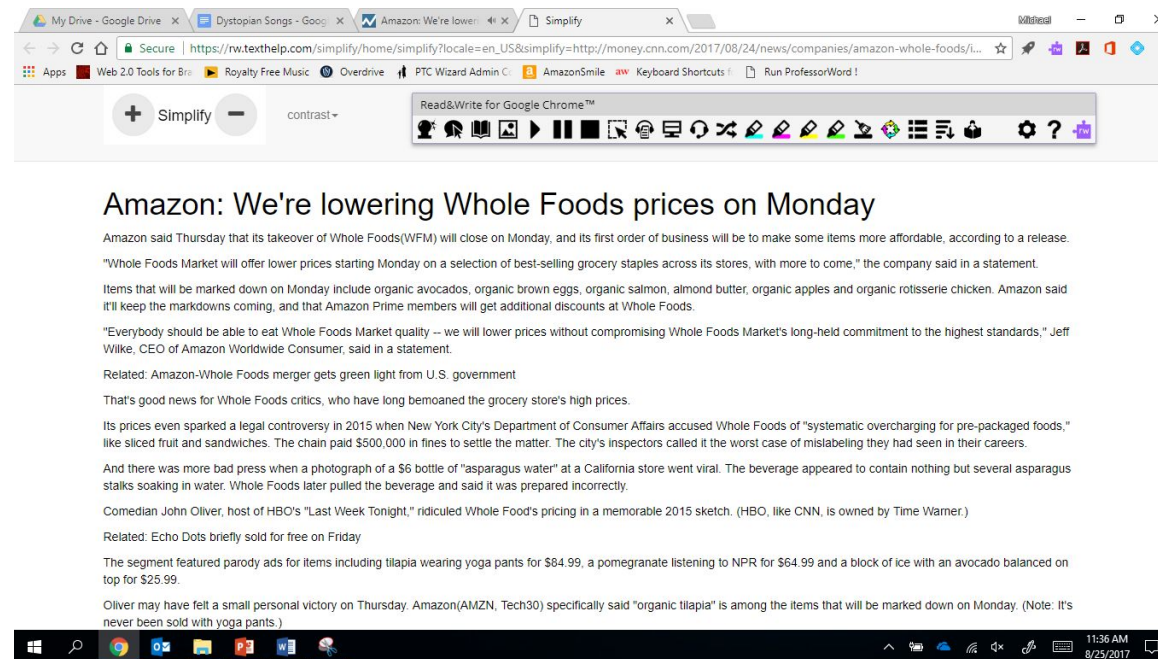
# Simplify Page

- ▶ This website is too busy! Look at all those ads!



# Simplify Page

- ▶ Click the Simplify Page button to remove them.



# Make an Outline

- ▶ Highlight important information
- ▶ Use different colors for different types of information



- ▶ Click the circle of arrows to collect the highlights



- ▶ A Google Doc will automatically generate

# Make an Outline

- ▶ Choose how to sort the outline (color or position)
- ▶ Choose which colors to collect
- ▶ Click OK

Collect highlights

Sort highlights by color ▼

**Colors to collect**

<input checked="" type="checkbox"/>	<div></div>
<input checked="" type="checkbox"/>	<div></div>
<input checked="" type="checkbox"/>	<div></div>
<input checked="" type="checkbox"/>	<div></div>

OK Cancel

# Make an Outline

## Uber's new CEO will have to deal with Uber's old CEO

Nearly 70 days after Uber's CEO resigned, the startup has finally chosen a replacement: [Dara Khosrowshahi, currently CEO of Expedia\(EXPE\)](#). He hasn't officially accepted yet, but is expected to, according to Expedia chairman Barry Diller.

If he accepts the position, Khosrowshahi will face a long list of challenges, including [reforming Uber's office culture after sexual harassment allegations and curbing its steep losses enough to take the company public](#).

But somewhere near the top of the list is the particularly thorny question of what to do with his [predecessor, Travis Kalanick](#).

The two men could not be more different, according to those who know them. [Kalanick is a famously brash and combative founder, Khosrowshahi is typically described by friends as an "adult" and a "diplomat."](#)

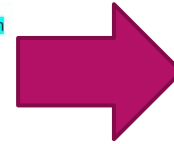
The future of Uber may rest on them getting along.

Related: Uber's next CEO: Who is Dara Khosrowshahi?

Kalanick was reluctant to forfeit his spot at the top even amid mounting PR crises. After stepping down in June, Kalanick wanted to plot his way back to being Uber CEO, according to an explosive lawsuit from one of Uber's major investors.

He remains a board member and one of Uber's largest shareholders, owning about 10% of Uber's stock and 16% of Uber's voting power, according to the lawsuit from Benchmark Capital. The venture capital firm is suing Kalanick to get him off the board; other Uber investors want Benchmark to leave the board.

Perhaps the closest comparison is Twitter. When [Twitter\(TWTR, Tech30\) started searching for a new CEO in 2015, it had three former CEOs still on its board](#). In the end, however, it chose one of them.



Highlights Untitled ☆

File Edit View Insert Format Tools Table Add-ons Help Last edit was seconds ago

100% Normal text Arial 11 B I U A

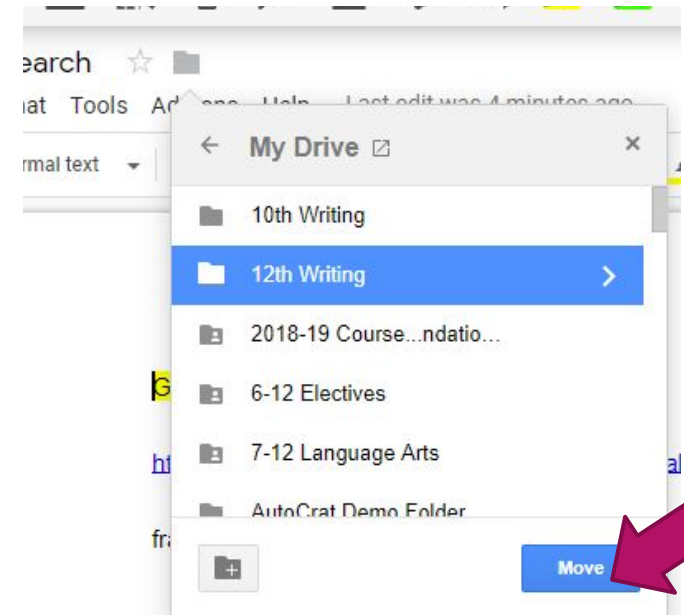
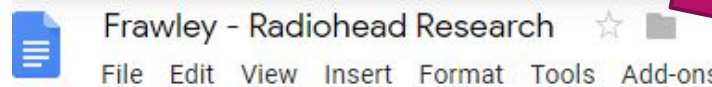
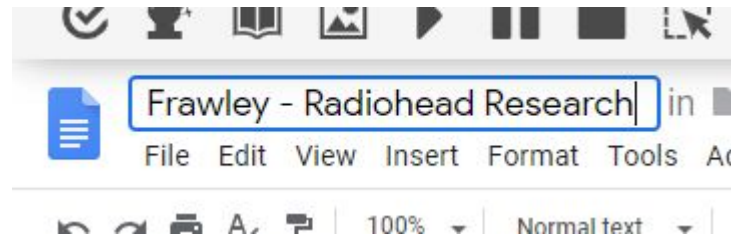
1 2 3 4 5 6

[Dara Khosrowshahi, currently CEO of Expedia\(EXPE\)](#)  
[predecessor, Travis Kalanick](#)  
[Kalanick is a famously brash and combative founder, Khosrowshahi is typically described by friends as an "adult" and a "diplomat."](#)  
[reforming Uber's office culture after sexual harassment allegations and curbing its steep losses enough to take the company public](#)  
[Twitter\(TWTR, Tech30\) started searching for a new CEO in 2015, it had three former CEOs still on its board](#)  
<http://money.cnn.com/2017/08/28/technology/business/uber-ceo-challenges/index.html>  
frawley@woodlynde.org


The highlights have been placed in order in the Google Doc!

# Make an Outline

1. Change the name of the document. It will automatically be called “Highlights Untitled,” which is not helpful.
2. Click the folder icon
3. Choose the correct folder and click “Move Here”



# Prediction

- ▶ Click the crystal ball icon 
- ▶ Begin typing
- ▶ The prediction will give you options for what word might come next

The problem Montag faces is |

1. a
2. the
3. not
4. that
5. to

- ▶ Choose the one that best fits your meaning

# Dictionaries

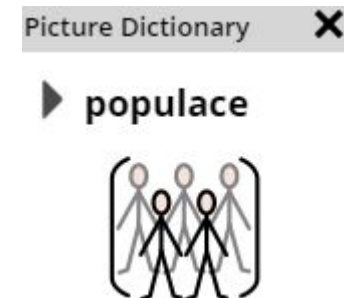
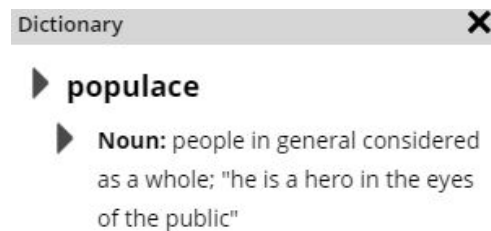
- ▶ Highlight the word you want to define

One problem Montag faces is the lack of education in the populace.

- ▶ Click the Dictionary icon or the Picture Dictionary icon



- ▶ Ta-da!



# Vocabulary List

- ▶ Highlight the words you want defined


Nearly 70 days after Uber's CEO resigned, the startup has finally chosen a replacement: Dara Khosrowshahi, currently CEO of Expedia (EXPE). He hasn't officially accepted yet, but is expected to, according to Expedia chairman Barry Diller.

If he accepts the position, Khosrowshahi will face a long list of challenges, including reforming Uber's office culture after sexual harassment allegations and curbing its steep losses enough to

- ▶ Click the Vocabulary List button



- ▶ A chart with the words, associated pictures, and full definitions will generate in a new Google Doc

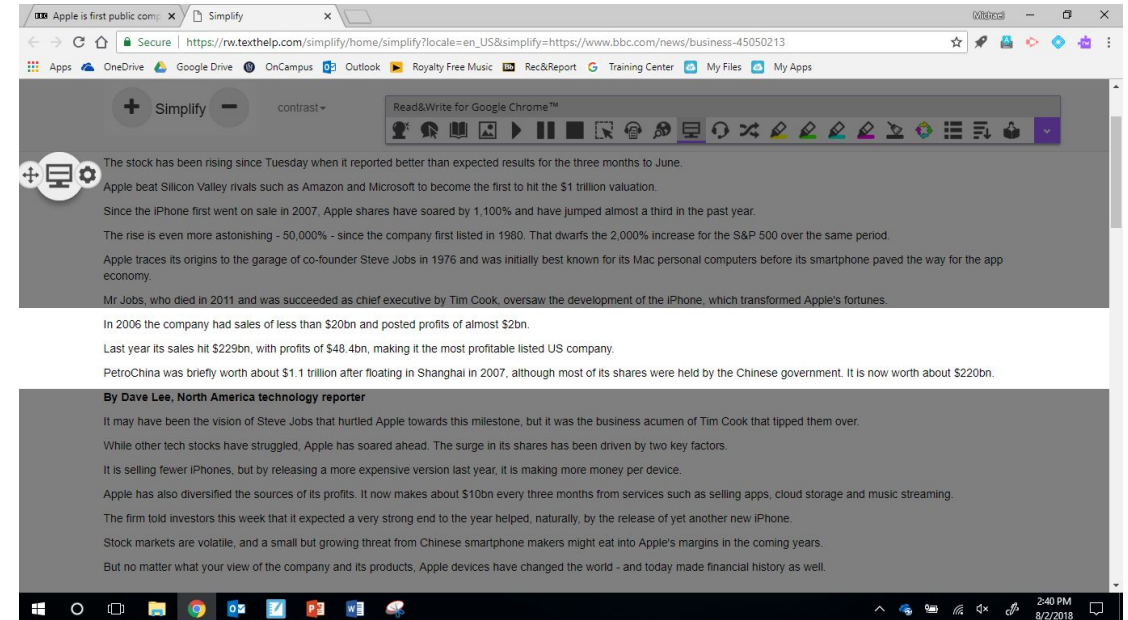
chairman	<p>A person who takes control of a meeting; The chairman spoke.</p> <p>A person in charge of a company etc.; He is the new chairman.</p> <p>the officer who presides at the meetings of an organization; "address your remarks to the chairperson"</p> <p>act or preside as chair, as of an academic department in a university; "She chaired the department for many years"</p>	
reforming	<p>A change made to a law, rule or system that is meant to improve it; Reforms in the medical system.</p>	

# Screen Mask

- ▶ Open an article online.
- ▶ Click the Screen Mask button.



- ▶ Move the mask to limit your field of vision. This can help you focus as you read.
- ▶ Done reading? Click the Screen Mask button again to turn it off.

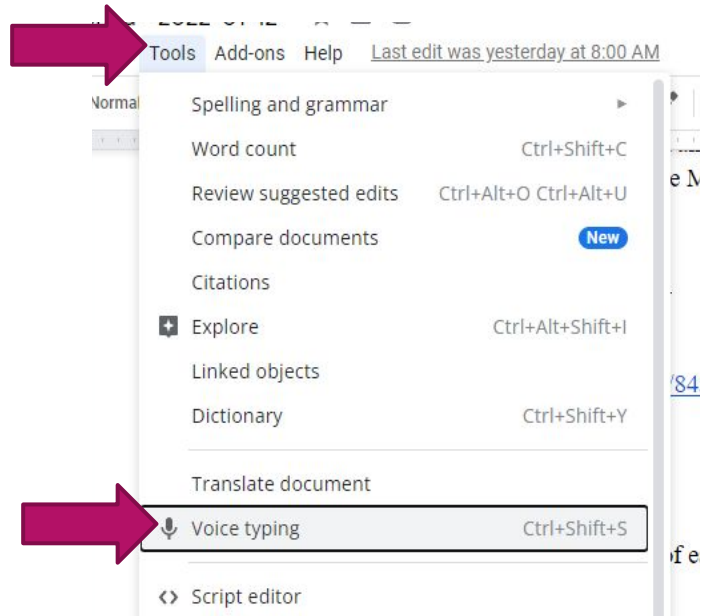


# Google Voice

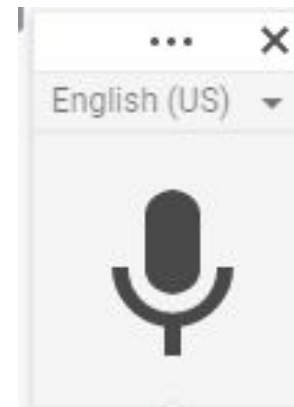
Built-in speech to text

# Speech-to-Text in Google Docs

- ▶ Access via Tools >> Voice Typing

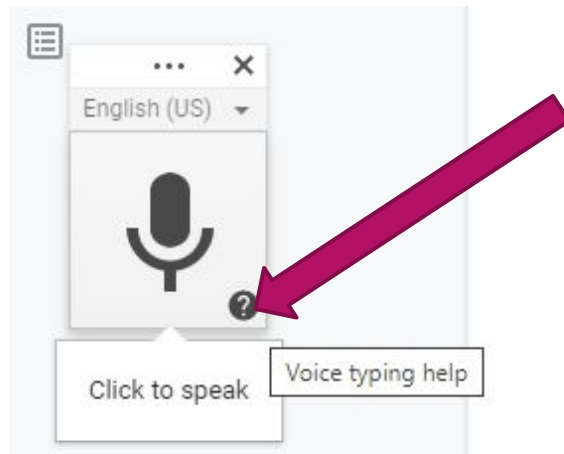


- ▶ Click the Microphone and speak!
- ▶ Use commands for “New line” or punctuation



# Commands

- ▶ Click the question mark and scroll to see commands



Help ×

🔍 Search Help

[Add punctuation](#) ▼

### Step 3: Use voice commands

After you start voice typing, you can use commands to edit and format your document. For example, "Select paragraph," "italics," or "Go to the end of the line."

Tips:

- Voice commands are available only in English. The account language and document language must both be English.
- Voice commands are not available in Slides speaker notes.



# OrbitNote

Like Read & Write, but for PDFs!

# orbit.texthelp.com

Hello [Michael Frawley](#). Welcome to OrbitNote, let's get started.

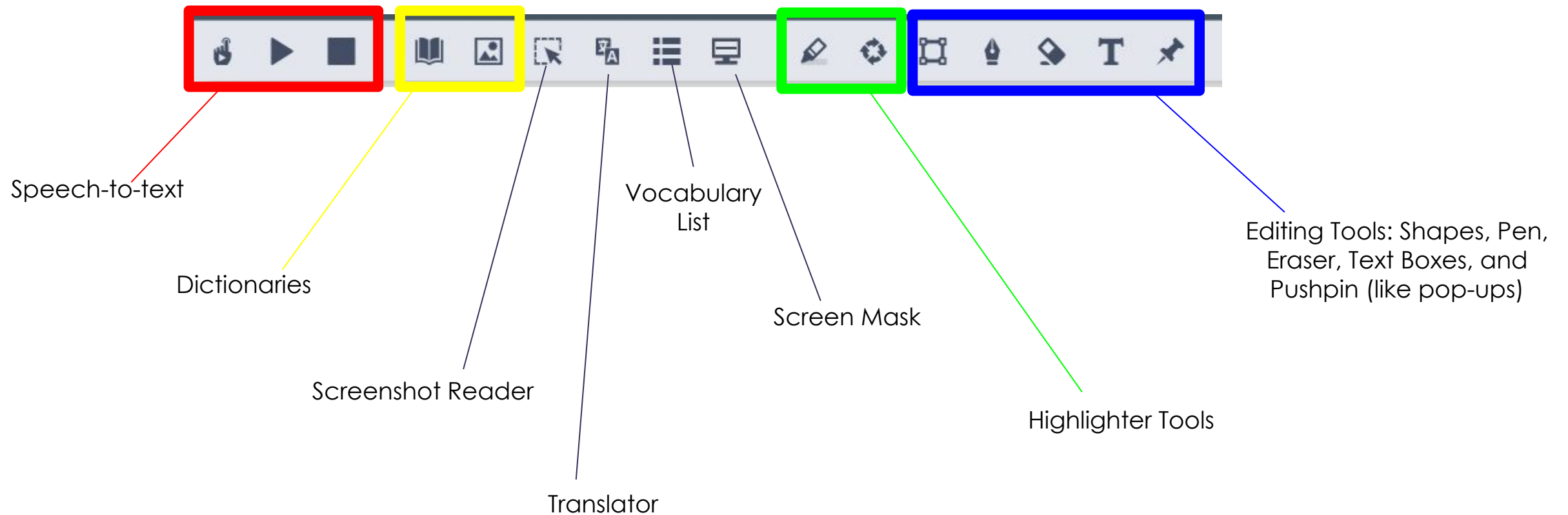


Drag and drop a PDF here or  
Choose file



Open PDF from Google Drive

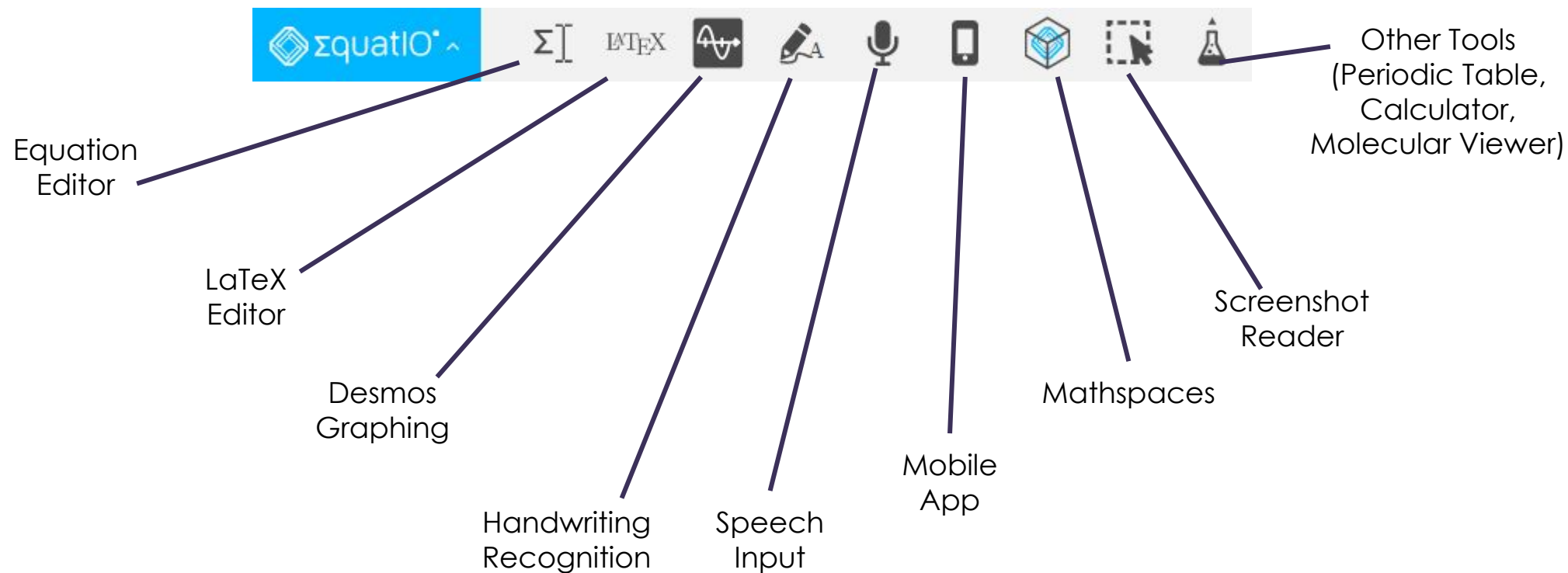
# The Menu



# Equatio

Speech to Math! Math to Speech! Built-in Formulas!

# Menu



# Equation Editor


- ▶ Type shortcuts
  - ▶  $\wedge$  creates an exponent
  - ▶  $/$  creates a fraction
  - ▶ Enter creates a new line
- ▶ Click “Insert Math” to put a photo of your work in the doc
- ▶ Click that photo, then “Edit Math” to make changes

Math      |       

$$3x^2 + 45 = 7$$

$$-45 = -45$$

$$3x^2 = -38$$

 Insert a Tens Frame in Slides with Images Inserted as Counters

# Equation Editor

- Insert Formulas or Symbols

Math T ↕ ♥ 🗑️ ⋮

$3x^2 + 45 = 7$   
 $-45 = -45$   
 $3x^2 = -38$

**Formulas**

$T^2$   $\pi$   $\frac{\Box}{\Box}$   $\sqrt{\Box}$   $\heartsuit$

**B** *I* U ~~✗~~  $\sqrt{a}$

Search 'General'

Checking The Current Version Installed

$\Sigma$   $\int$   $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$

Math T ↕ ♥ 🗑️ ⋮

$3x^2 + 45 = 7$   
 $-45 = -45$   
 $3x^2 = -38$

$T^2$   $\pi$   $\frac{\Box}{\Box}$   $\sqrt{\Box}$   $\heartsuit$

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  Quadratic formula

$f(x) = ax^2$  Standard form of quadratic equation  $\heartsuit$

$f(x) = a(x - h)^2 + k$  Vertex form of a quadratic equation

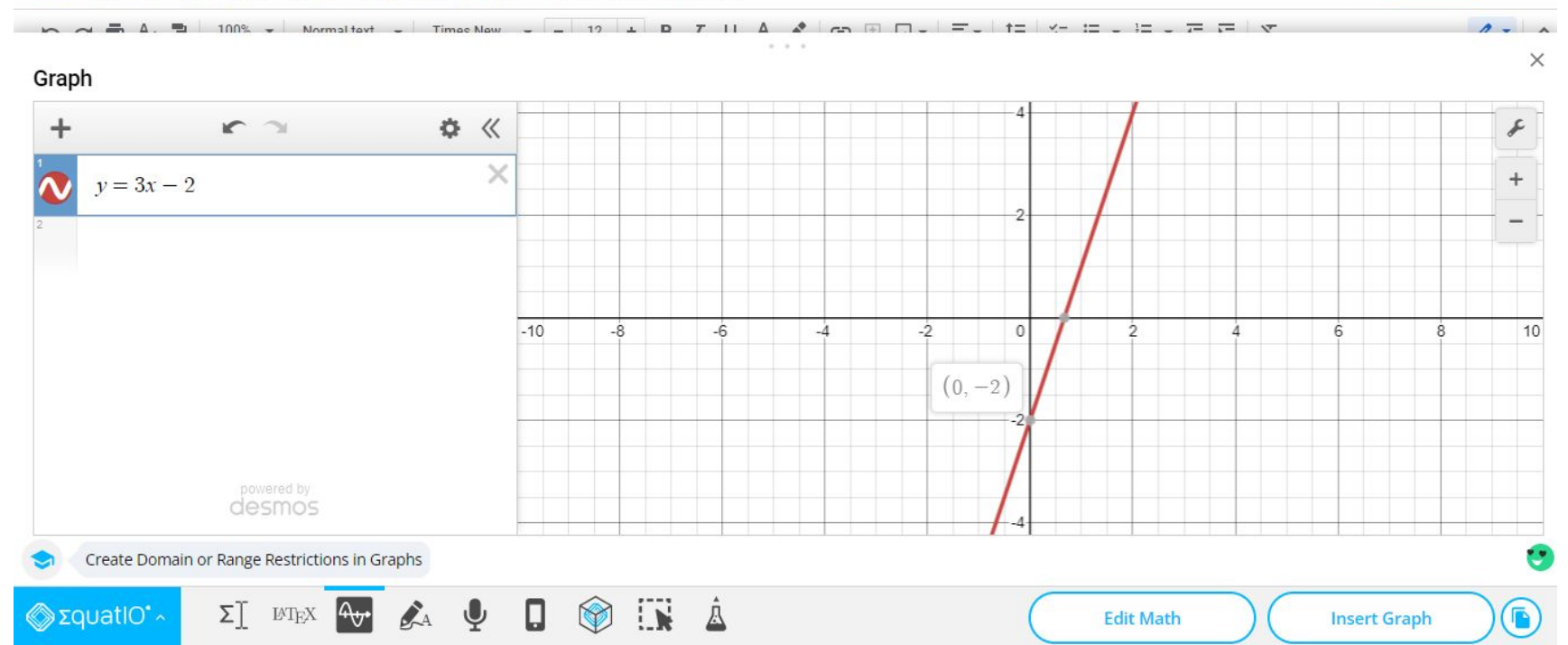
qua

Checking The Current Version Installed

$\Sigma$   $\int$   $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$

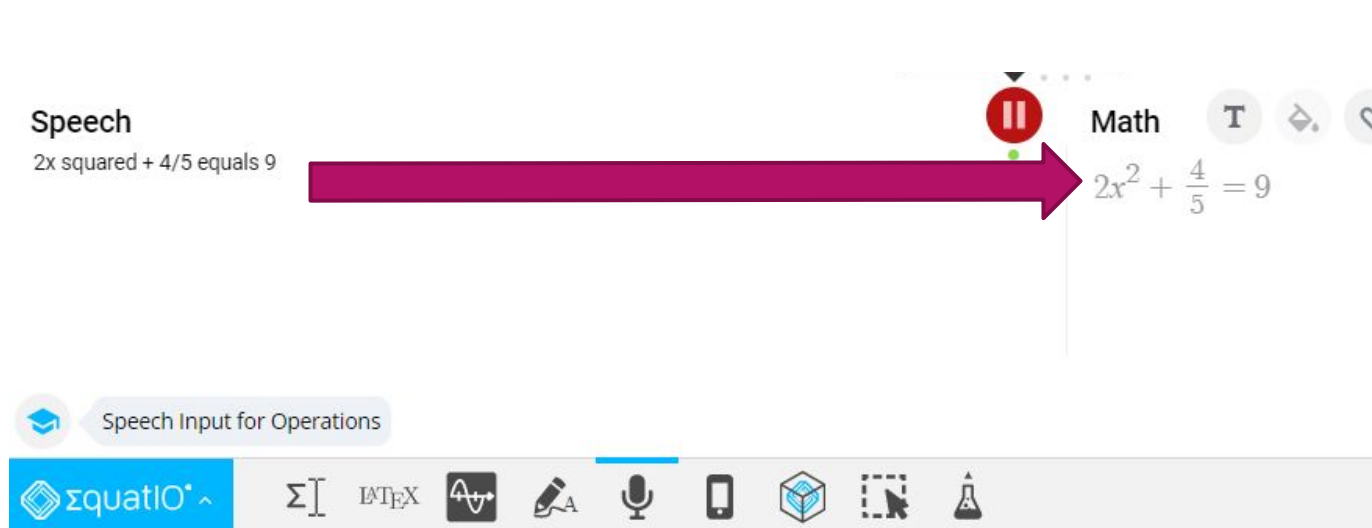
# Desmos

- ▶ Type a linear equation
- ▶ See the intercepts
- ▶ Insert the graph into your doc



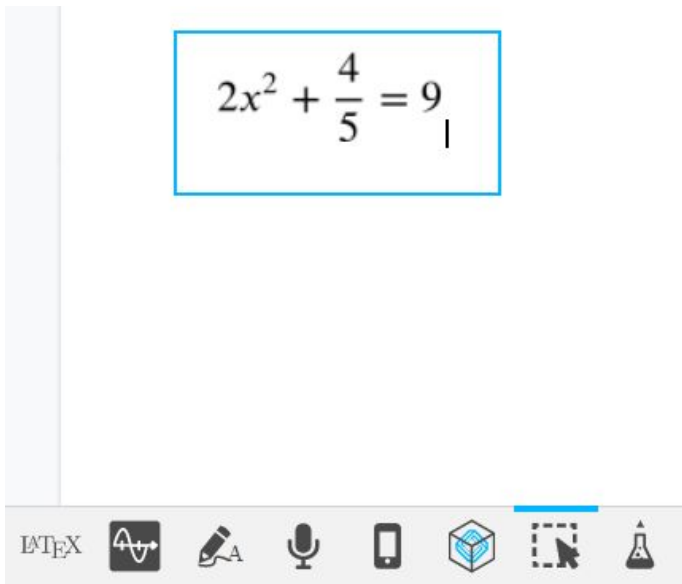
# Speech Input

- ▶ Click the red button
- ▶ Say math stuff: "Two x squared plus four fifths equals nine"
- ▶ It formats your math to insert or edit

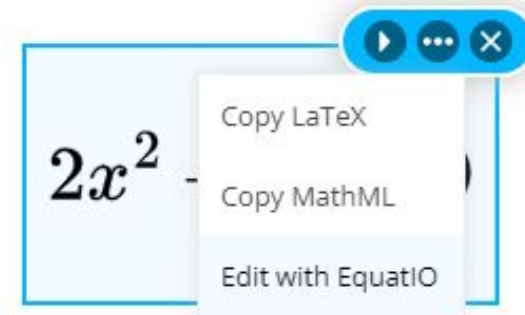


# Screenshot Reader

- ▶ Click the Screenshot Reader
- ▶ Draw a box around the math
- ▶ Listen as many times as you need



- ▶ Select “Edit with Equatio” to make changes



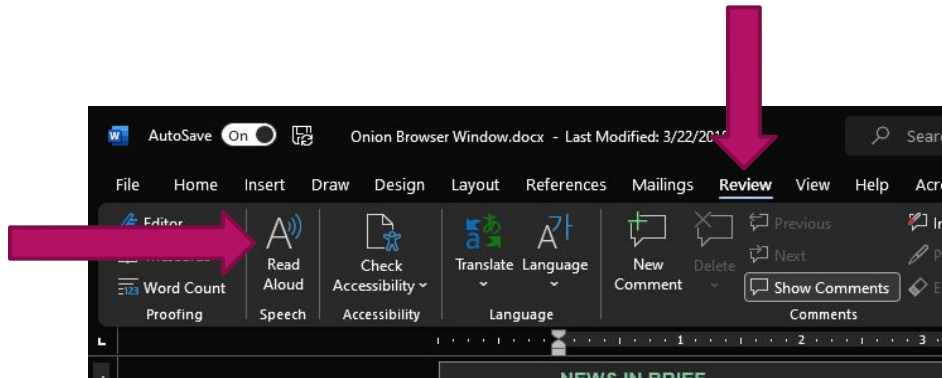


# Immersive Reader

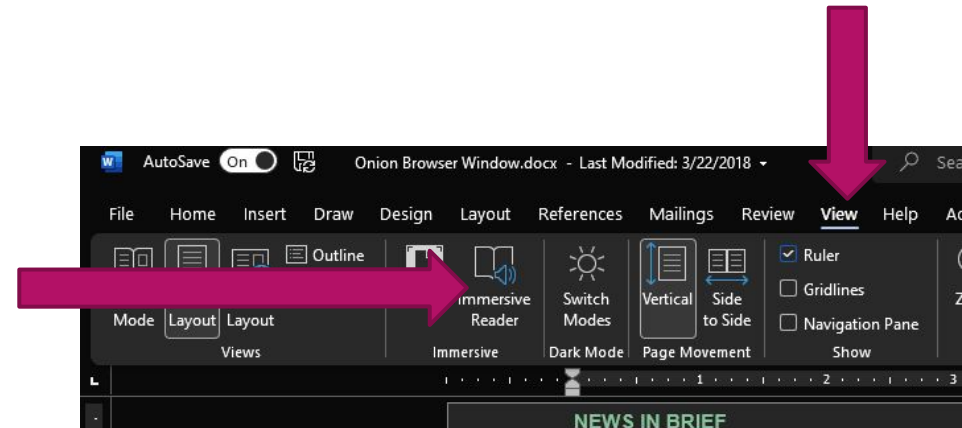
Microsoft has your back!

# Read Aloud vs Immersive Reader

- ▶ Review >> Read Aloud
- ▶ Does not change formatting

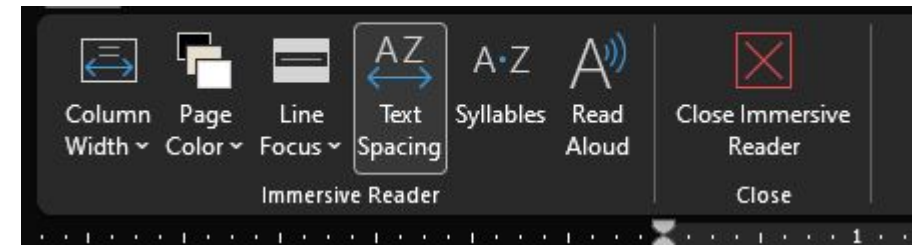


- ▶ View >> Immersive Reader
- ▶ Adds spacing and accessibility options



# Immersive Reader Options

- ▶ Change width of text
- ▶ Choose the background color
- ▶ Highlight 1-5 lines while reading
- ▶ Space out the text (or not)
- ▶ See the syllables of each word spread out
  - ▶ Words are read normally, but the view shows each syllable
- ▶ Text-to-speech



# Thank you!

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