

# Assistive Technology

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Unitec



# Accessibility

Text to speech (help with reading)

Speech to text (help with writing)



# Universal Design for Learning

The Universal Design for Learning Guidelines


CAST | Until learning has no limits

Provide multiple means of **Engagement**




Affective Networks  
The "WHY" of Learning

Provide multiple means of **Representation**



Recognition Networks  
The "WHAT" of Learning

Provide multiple means of **Action & Expression**



Strategic Networks  
The "HOW" of Learning

Access	<p>Provide options for <b>Recruiting Interest</b></p> <ul style="list-style-type: none"> <li>Optimize individual choice and autonomy</li> <li>Optimize relevance, value, and authenticity</li> <li>Minimize threats and distractions</li> </ul>	<p>Provide options for <b>Perception</b></p> <ul style="list-style-type: none"> <li>Offer ways of customizing the display of information</li> <li>Offer alternatives for auditory information</li> <li>Offer alternatives for visual information</li> </ul>	<p>Provide options for <b>Physical Action</b></p> <ul style="list-style-type: none"> <li>Vary the methods for response and navigation</li> <li>Optimize access to tools and assistive technologies</li> </ul>
	<p>Provide options for <b>Sustaining Effort &amp; Persistence</b></p> <ul style="list-style-type: none"> <li>Heighten salience of goals and objectives</li> <li>Vary demands and resources to optimize challenge</li> <li>Foster collaboration and community</li> <li>Increase mastery-oriented feedback</li> </ul>	<p>Provide options for <b>Language &amp; Symbols</b></p> <ul style="list-style-type: none"> <li>Clarify vocabulary and symbols</li> <li>Clarify syntax and structure</li> <li>Support decoding of text, mathematical notation, and symbols</li> <li>Promote understanding across languages</li> <li>Illustrate through multiple media</li> </ul>	<p>Provide options for <b>Expression &amp; Communication</b></p> <ul style="list-style-type: none"> <li>Use multiple media for communication</li> <li>Use multiple tools for construction and composition</li> <li>Build fluencies with graduated levels of support for practice and performance</li> </ul>
Internalize	<p>Provide options for <b>Self Regulation</b></p> <ul style="list-style-type: none"> <li>Promote expectations and beliefs that optimize motivation</li> <li>Facilitate personal coping skills and strategies</li> <li>Develop self-assessment and reflection</li> </ul>	<p>Provide options for <b>Comprehension</b></p> <ul style="list-style-type: none"> <li>Activate or supply background knowledge</li> <li>Highlight patterns, critical features, big ideas, and relationships</li> <li>Guide information processing and visualization</li> <li>Maximize transfer and generalization</li> </ul>	<p>Provide options for <b>Executive Functions</b></p> <ul style="list-style-type: none"> <li>Guide appropriate goal-setting</li> <li>Support planning and strategy development</li> <li>Facilitate managing information and resources</li> <li>Enhance capacity for monitoring progress</li> </ul>
	<p>Expert learners who are...</p> <p><b>Purposeful &amp; Motivated</b></p>	<p><b>Resourceful &amp; Knowledgeable</b></p>	<p><b>Strategic &amp; Goal-Directed</b></p>

Provide options for  
**Recruiting Interest**

- Optimize individual choice and autonomy
- Optimize relevance, value, and authenticity
- Minimize threats and distractions

Provide options for  
**Perception**

- Offer ways of customizing the display of information
- Offer alternatives for auditory information
- Offer alternatives for visual information

Provide options for  
**Physical Action**

- Vary the methods for response and navigation
- Optimize access to tools and assistive technologies



Microsoft Dictation  
& Transcribe



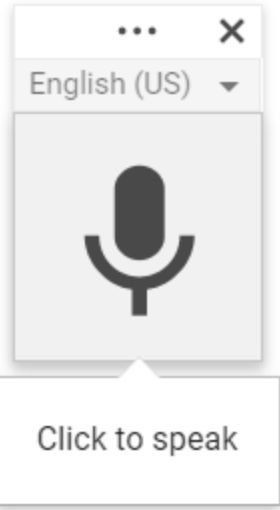
Microsoft  
Immersive Reader



Goblin Tools



**Helperbird**



Google Voice Typing



Read Aloud  
Microsoft Edge





## Vision

Learn how to use Narrator, Magnifier, color filters, and other sight-related tools to best suit your vision.

[LEARN ABOUT VISION-RELATED TOOLS >](#)



## Hearing

Customize Windows and use hearing-related tools such as live captions and mono audio to fit your hearing needs.

[EXPLORE HEARING ASSISTIVE TOOLS >](#)



## Neurodiversity

Discover the tools that help you stay focused and organized and improve your reading and writing skills.

[DISCOVER TOOLS FOR NEURODIVERSITY >](#)



## Learning

Improve your writing, reading, and math skills and communicate with confidence and inclusiveness.

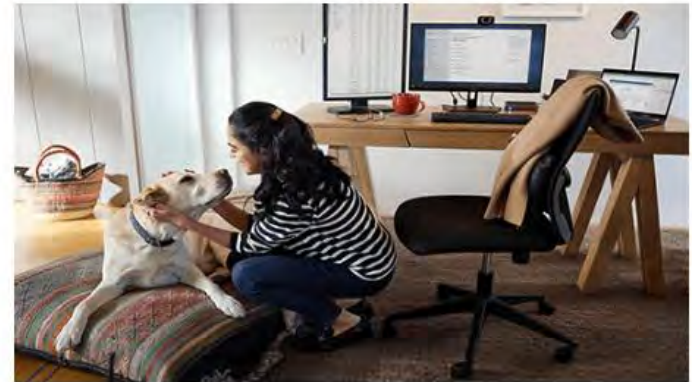
[UNCOVER TOOLS FOR LEARNING >](#)



## Mobility

Use accessibility tools such as eye control, dictation, or on-screen keyboard to suit your mobility needs.

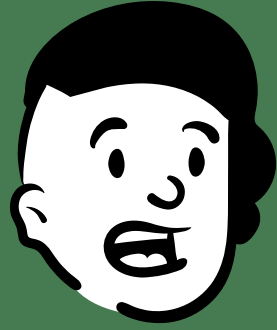
[FIND MOBILITY ASSISTIVE TOOLS >](#)



## Mental Health

Learn to use tools that can help you improve your mental focus and minimize distractions.

[TRY MENTAL HEALTH ASSISTIVE TOOLS >](#)



# Speech to text

(Help with writing)

(Dictation)

# Microsoft Dictation

The image shows the Microsoft Word ribbon interface. The 'Home' tab is selected, and the 'Dictate' button is highlighted in the 'Voice' group. The ribbon includes the following groups: Clipboard, Font, Paragraph, Styles, Editing, Adobe Acrobat, Voice, Sensitivity, Editor, and Add-ins. The 'Dictate' button is represented by a microphone icon. The main document area is blank.



# Google Voice Typing

Gmail Images



# Google

Search Google or type a URL



YouTube



Home



Clipchamp



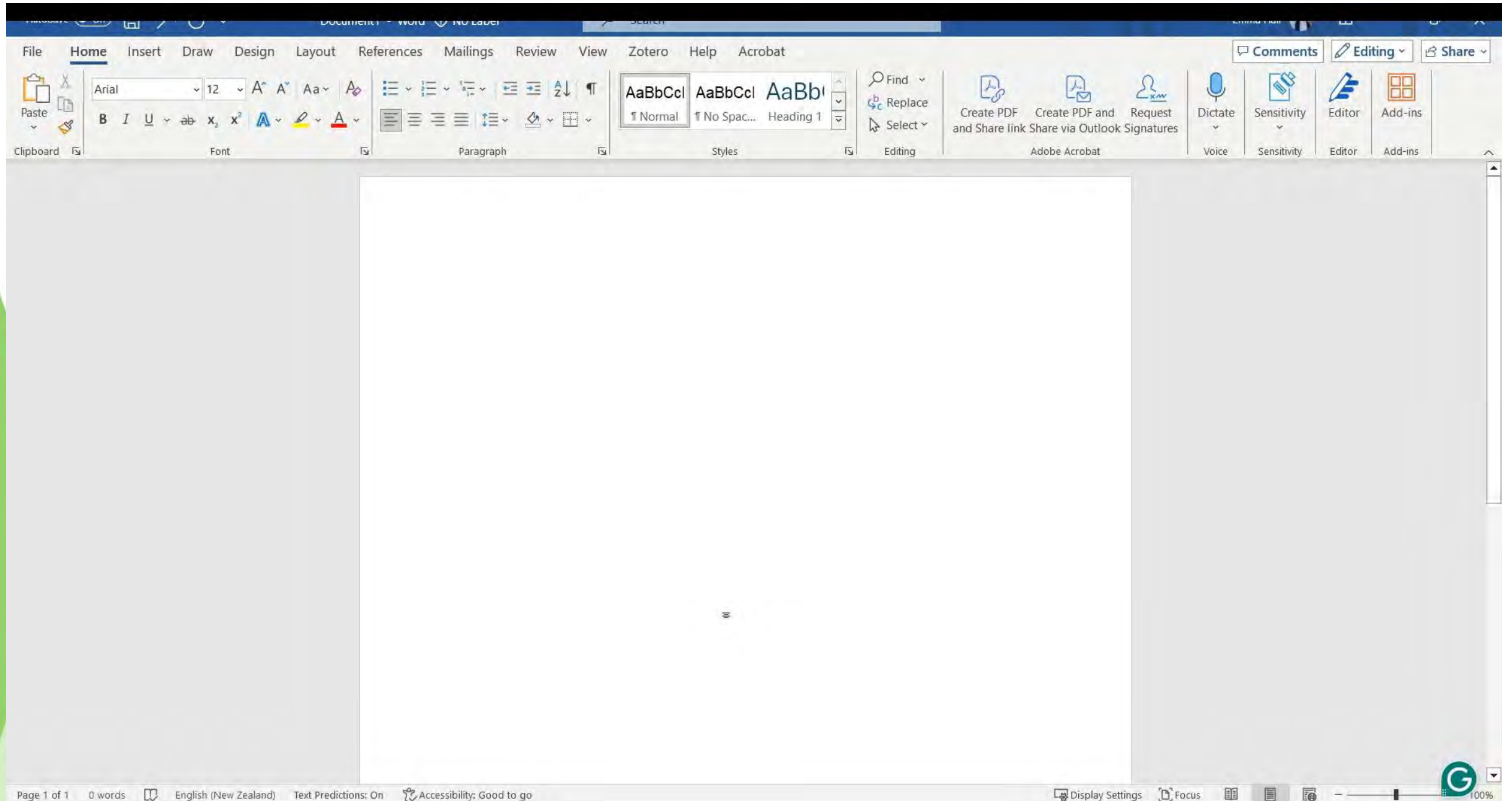
Web Store



Add shortcut

Customize Chrome

# Microsoft Transcribe



File

Home

Insert

Draw

Design

Layout

References

Mailings

Review

View

Zotero

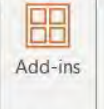
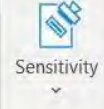
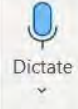
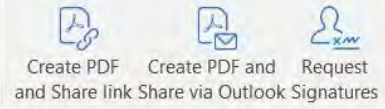
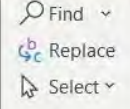
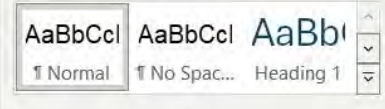
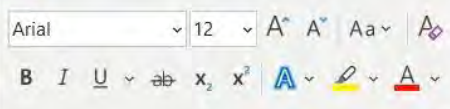
Help

Acrobat

Comments

Editing

Share



Clipboard

Font

Paragraph

Styles

Editing

Adobe Acrobat

Voice

Sensitivity

Editor

Add-ins





# Text to Speech

(Help with reading)

(Read aloud)



Read Aloud

Immersive Reader

Native to  
Microsoft Edge





# Read Aloud

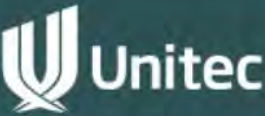


# Read Aloud in Microsoft Edge

Home - Assistive Technology - S x Dog - Wikipedia

https://guides.unitec.ac.nz/assistivetechology/home

## STUDENT SUCCESS



Student Success / Assistive Technology / Home

### Assistive Technology

Assistive Technology available at Unitec, and Open Source software

Search this Guide Search

- Home
- Software Available
- Organisation & Note-taking Tools
- Equipment Available
- Microsoft Learning Tools
- Microsoft 365 Accessibility Features
- Windows Accessibility Features
- Apple Accessibility Features
- Microsoft Edge Accessibility Extensions
- Mobile Accessibility Apps

## Welcome to Assistive Technology at Unitec

### What is Assistive Technology?

Assistive Technology (AT) is specialised equipment and technology that students with additional learning requirements use in class and in the home environment, to increase or improve their ability to engage and learn.

### What equipment or software is available?

We have a range of software and equipment you can engage with while you study at Unitec. For more information on this please view our [Software Available](#) and [Equipment Available](#) pages.

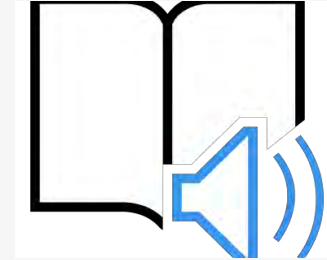
### Who can apply for Assistive Technology?

To be eligible to apply or trial assistive technology a student must:

- Be enrolled in a current or prospective programme at Unitec
- Have a specific learning or health related difficulty that could create a barrier to their studies at Unitec
- Be registered with the Access4Success Disability service. If you are not currently registered, please complete [this form](#) and our Access Advisor will make a time with you to walk you through this.

If you are interested in engaging with one, or a selection of the equipment and software we have available you can do so by contacting

# Microsoft Immersive Reader



Immersive Reader is available on these platforms:



OneNote **Online** [learn more](#)

OneNote **Universal App**

[Download now](#)

OneNote for **Mac** and **iPad** [learn more](#)



Word **Online** [learn more](#)

Word **Desktop** [learn more](#)

Word for **Mac**, **iPad** and **iPhone** [learn more](#)



Outlook **Online** [learn more](#)

Outlook **Desktop** [learn more](#)



Office Lens for iPhone and iPad (iOS)

[Download now](#)



Microsoft Edge browser



Microsoft Teams [learn more](#)



# Alice in Wonderland

## Chapter 1: Down the Rabbit-Hole

Alice was beginning to get very tired of sitting by her sister on the bank, and of having nothing to do: once or twice she had peeped into the book her sister was reading, but it had no pictures or conversations in it, "and what is the use of a book," thought Alice "without pictures or conversations?"

So she was considering in her own mind (as well as she could, for the hot day made her feel very sleepy and stupid), whether the pleasure of making a daisy-chain would be worth the trouble of getting up and picking the daisies, when suddenly a White Rabbit with pink eyes ran close by her.

There was nothing so very remarkable in that; nor did Alice think it so very much out of the way to hear the Rabbit say to itself, "Oh dear! Oh dear! I shall be late!" (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the Rabbit actually took a watch out of its waistcoat-pocket, and looked at it, and then hurried on, Alice started to her feet, for it flashed across her mind that she had never before seen a rabbit with either a waistcoat-pocket, or a watch to take out of it, and burning with curiosity, she ran across the field after it, and fortunately was just in time to see it pop down a large rabbit-hole under the hedge.

In another moment down went Alice after it, never once considering how in the world she was to get out again.



## Links to Mac features

[Hear your Mac read documents](#)

[Dictate messages and documents on Mac](#)

## Links to Google features

[Google Voice Typing](#)

[Chromebook Users](#)

# Accessible Materials



# How do I make my materials accessible?

- Use Heading structure, so the page is fully navigable
- Sans serif or accessible fonts
- Left Align Text
- Include images/diagrams that convey the same information as the text
- Videos have captions & audio descriptions
- Images have alt text descriptions
- If PDFs are scanned images, make sure they go through Optical Character Recognition (OCR) software to access text

## Deep Dive

- [Round Table Print Disability Guidelines](#)
- [Accessible Design for print - MSD](#)
- [Web Content Accessibility Guidelines \(WCAG\)](#)

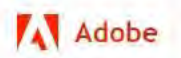


# Make a scanned PDF more accessible

- [Adobe OCR a PDF](#)

## Is it accessible? Quick check:

- ✓ Can you select the text?
  - ✓ Does your text-to-speech tool work?
  - ✓ Does your text-to-speech tool follow how you would visually read the document?
- \* This does not mean your PDF is fully accessible, but it's a great start.



# OCR a PDF



Drag and drop a PDF file to recognize text in it using OCR technology, creating a searchable PDF.

**Select a file**



Your files will be securely handled by Adobe servers and deleted unless you sign in to save them. ⓘ  
By using this service, you agree to the Adobe [Terms of Use](#) and [Privacy Policy](#).

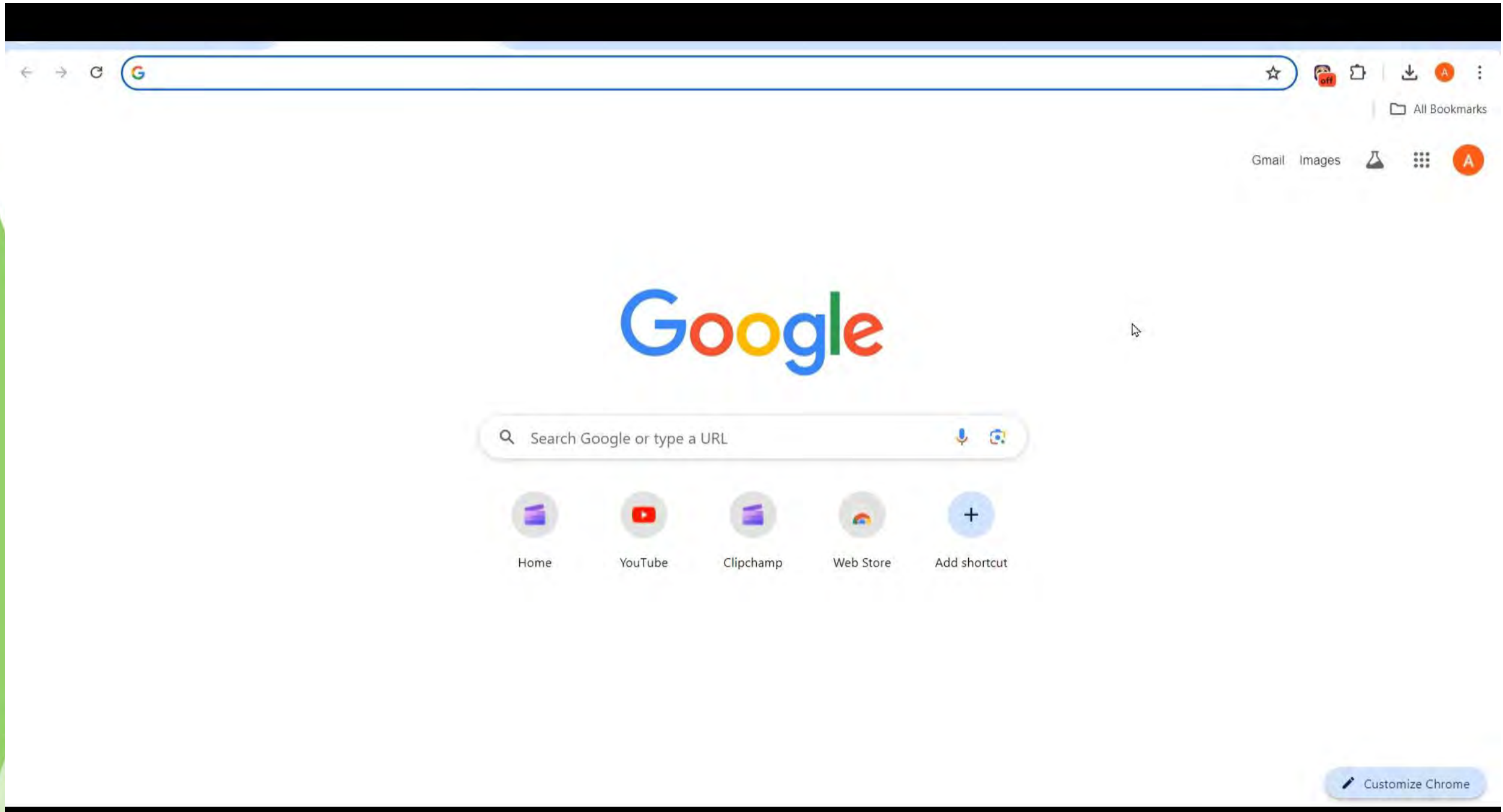


**Before OCR**

# Helperbird



# Helperbird

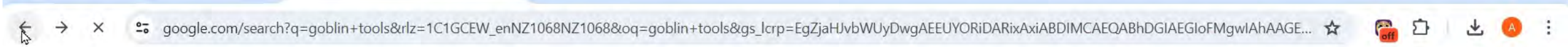




# Goblin Tools



# Goblin Tools – Compiler and Magic To-do List



goblin tools



All Images Shopping Videos News Maps Books More Tools



Goblin Tools

<https://goblin.tools>

## Magic ToDo - GoblinTools

Top level tasks are automatically assigned a category indicated by an emoji. You can filter your list to one or more categories with the button. The filter ...

### Formalizer

[goblin.tools](#) · [Magic ToDo](#) · [Formalizer](#) · [Judge](#) · [Professor](#) ...

### The Chef

[goblin.tools](#) · [Magic ToDo](#) · [Formalizer](#) · [Judge](#) · [Professor](#) ...

### The Judge

[goblin.tools](#) · [Magic ToDo](#) · [Formalizer](#) · [Judge](#) · [Professor](#) ...

### Compiler

[goblin.tools](#) · [Magic ToDo](#) · [Formalizer](#) · [Judge](#) · [Professor](#) ...

### About

About · is a collection of small, simple, single-task tools, mostly ...

[More results from goblin.tools »](#)

People also ask

# Goblin Tools - Professor



Magic ToDo

Formalizer

Judge

Professor

Estimator

Compiler

Chef

Patreon






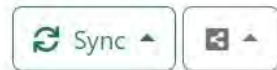
About

## Magic ToDo

Help ?

Breaking things down so you don't

Add new item...   



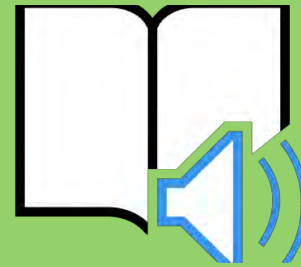
# Summary



Overwhelmed



Microsoft Dictation  
& Transcribe



Immersive  
Reader



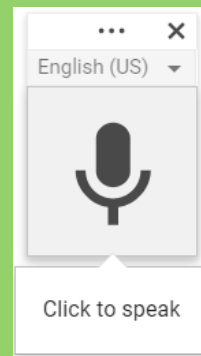
Successful



Goblin Tools



Helperbird



Google Voice  
Typing





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