



# Monarch Magic

Charting the Cs  
Conference 2025:  
*To Literacy and  
Beyond*

Cooperation  
Communication  
Collaboration

April 29, 2025

Kristi Portugue

Holly Beckmann

Amy Neils

# Learning Objectives

- Meet the Monarch
- Learn the benefits
- Student case studies
  - early childhood
  - elementary
  - high school
- What's next?

# The Monarch

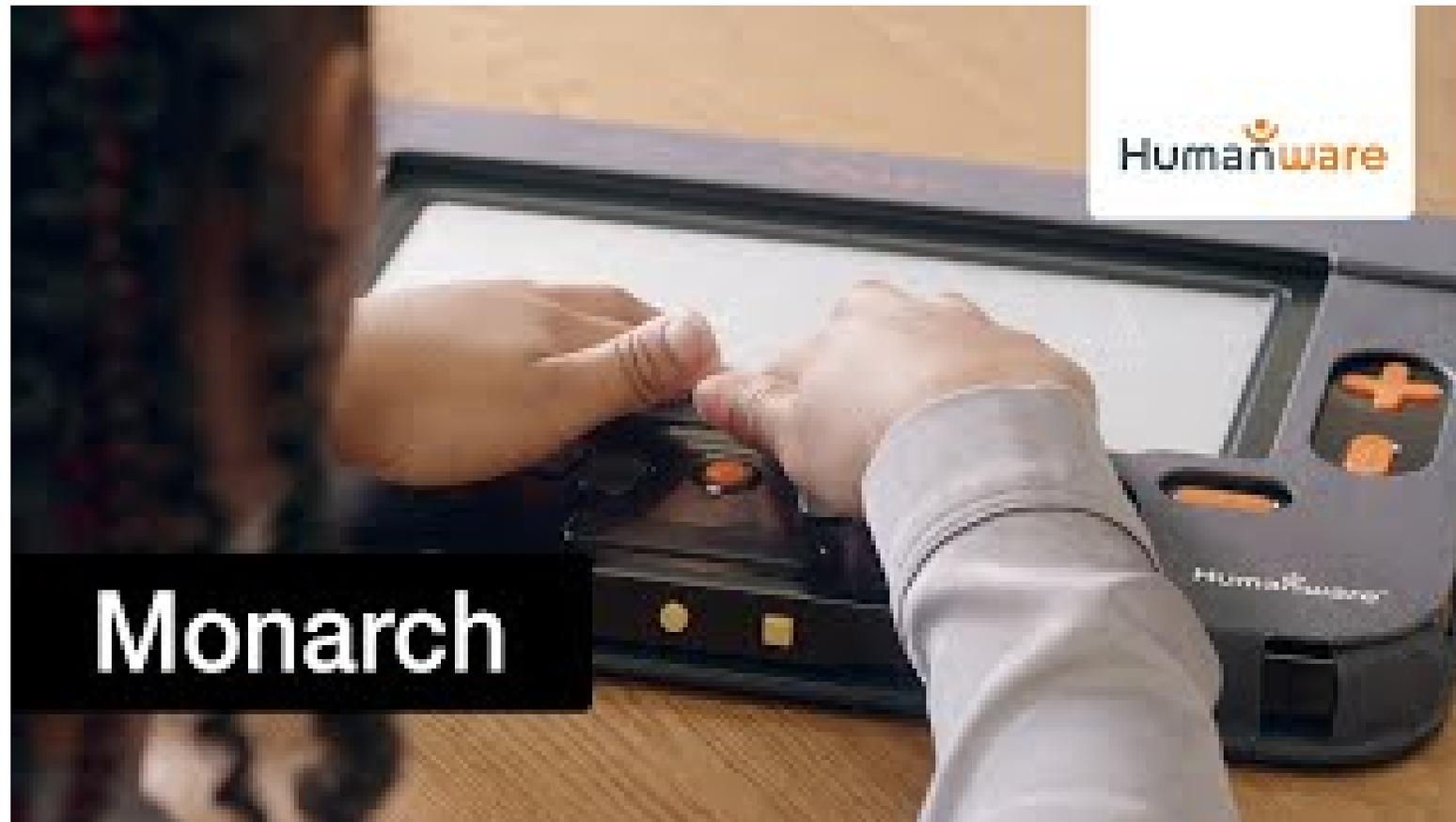


# What is the Monarch?

The Monarch Braille Display is a groundbreaking device designed to make tactile reading more accessible for visually impaired users. Its magical aspects include:

- Dynamic multi-line braille
- Versatility in content
- Innovative technology
- Portability
- Accessibility features

# The Why Behind the Monarch - Video



# Mastering the Monarch



# 10 lines vs. one line



# Display Comparison with Print

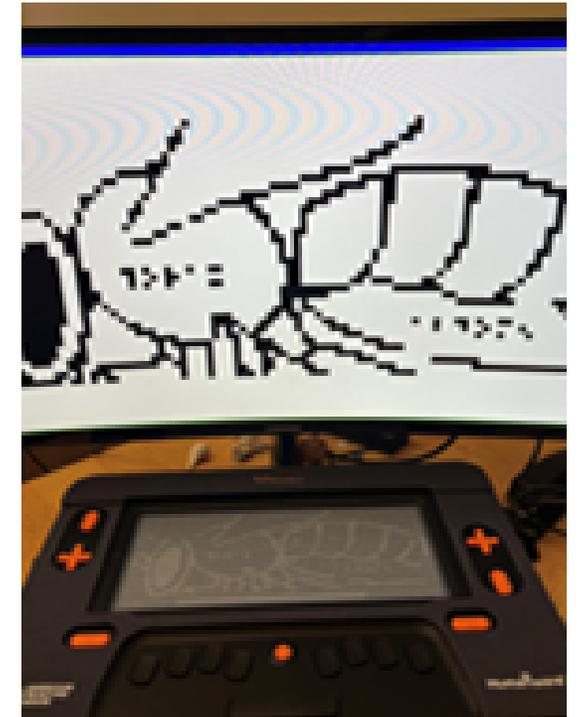
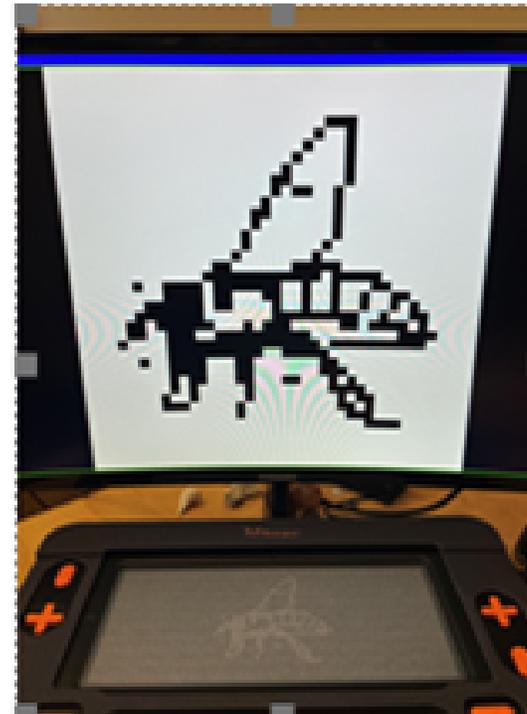
The quick brown fox jumps over the lazy  
dog. The quick brown fox jumps over the  
lazy dog. The quick brown fox jumps  
over the lazy dog. The quick brown fox  
jumps over the lazy dog. The quick brown  
fox jumps over the lazy dog. The quick  
brown fox jumps over the lazy dog.  
The quick brown fox jumps over the lazy  
dog. The quick brown fox jumps over the  
lazy dog. The quick brown fox jumps

The quick brown fox jumps over the lazy  
dog. The quick brown fox jumps over the



# Tactile Images

1. Empowering accessibility through refreshable tactile graphics
2. Navigate and explore images
3. Cost and time effective
4. APH Tactile Graphics Image Library



# Rewrite, Redo, Revise



# Main Menu

Braille Editor: KeyBRF

Tactile Viewer

Internet Browser: Ecosia (Beta)

Word Processor: KeyWord

Math: KeyMath

File Manager: Files

Victor Reader

All Applications

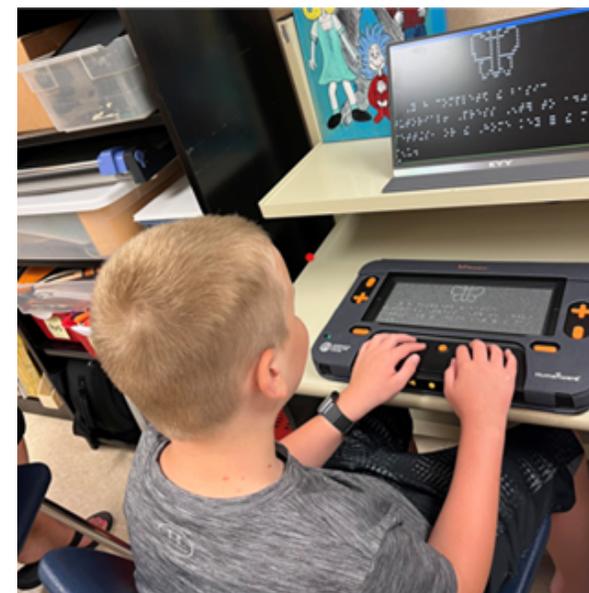
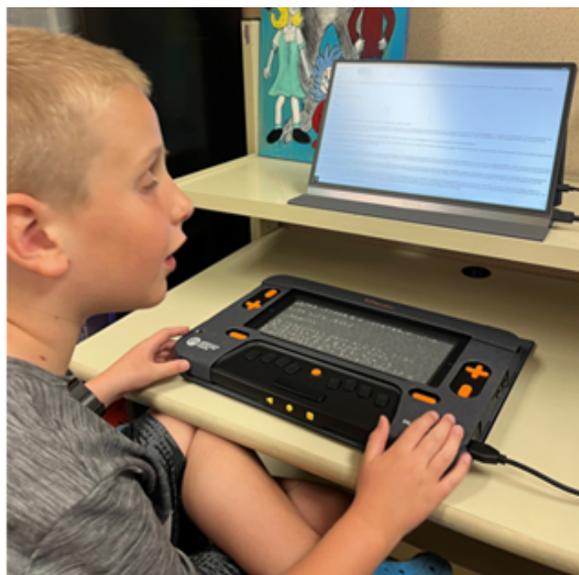
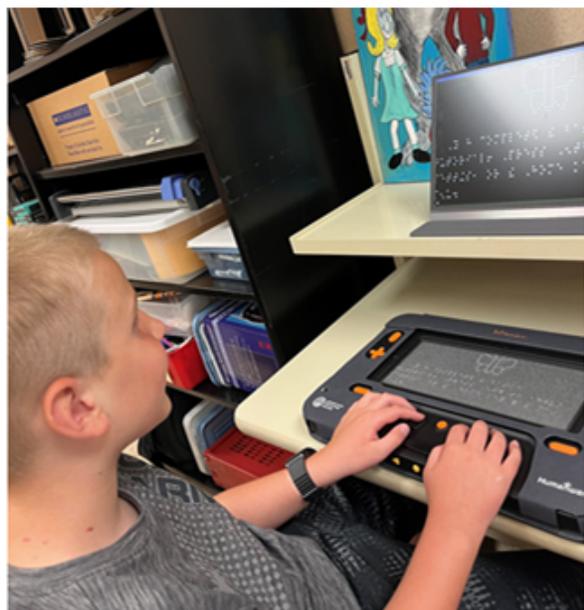
## Other Benefits/Functions:

1. 24-hour battery life after only 3-4 hours of charging time
2. Portable visual display connectivity via HDMI for teachers or peers
3. 3840 Pins for detailed graphics
4. Infrared sensor
5. Internet access: Ecosia
6. Apps and games like chess

# Case Study: Early Childhood Student



# Case Study: Elementary Student



# Case Study: High School Student



# What's Next?

- Wing It
- Monarch Transition and Employment Program (MTEP)
- Developing terminal mode
- Developing screen reader capabilities
- New apps in development

# Resources

<https://www.aph.org/meet-monarch/>

Video: <https://www.youtube.com/watch?v=TJdMAk-hN3A>



**Thank you!**

Amy Neils, [aneils@mncsc.org](mailto:aneils@mncsc.org)

Holly Beckmann, [hbeckmann@mncsc.org](mailto:hbeckmann@mncsc.org)

Kristi Portugue, [kportugue@mncsc.org](mailto:kportugue@mncsc.org)