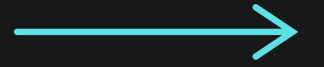


IF Presentation
Health Innovation & Inclusive Design
March 2025



TAKTIS

WHERE EVERY WORD **MOVES** WITH YOU

Abby, Anika M., Christy, Jet, Justin Z.

Alex, 20, Student

"WHEN YOU HAVE **ADHD** AND **DYSLEXIA**, READING FOR PROLONGED PERIODS OF TIME IS EXPLICITLY **HARDER.**

WHEN YOU GET STUCK ON A WORD, IT KILLS YOUR **MOMENTUM**, AND THEN YOU GET **DISTRACTED.**"

DYSLEXIA STATISTICS

780 MILLION WORLDWIDE

40 MILLION AMERICAN ADULTS

2 MILLION DIAGNOSED



PROBLEM SPACE

a

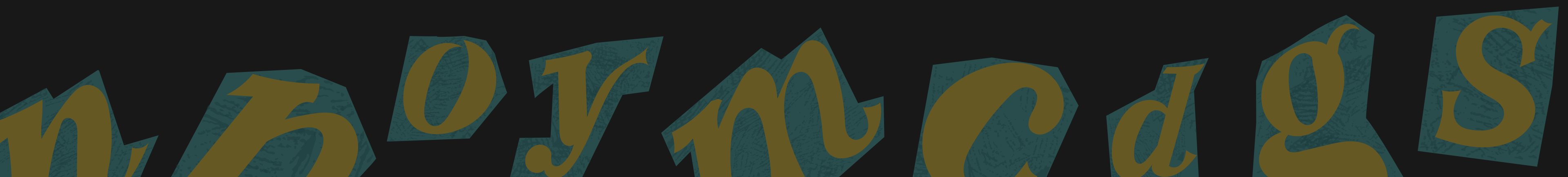
Reading fluency

b

Word recognition

c

Maintaining focus



MOMENTUM

CURRENT SOLUTIONS



SCANNING PEN



TEXT TO SPEECH APP

CURRENT SOLUTIONS



SCANNING PEN



TEXT TO SPEECH APP

CURRENT SOLUTIONS

Requires precise hand-eye coordination

SCANNING PEN



TEXT TO SPEECH APP

CURRENT SOLUTIONS

Requires precise hand-eye coordination

SCANNING PEN

interactive

tactile

???

engaging

Robotic, doesn't engage with user

TEXT TO SPEECH APP



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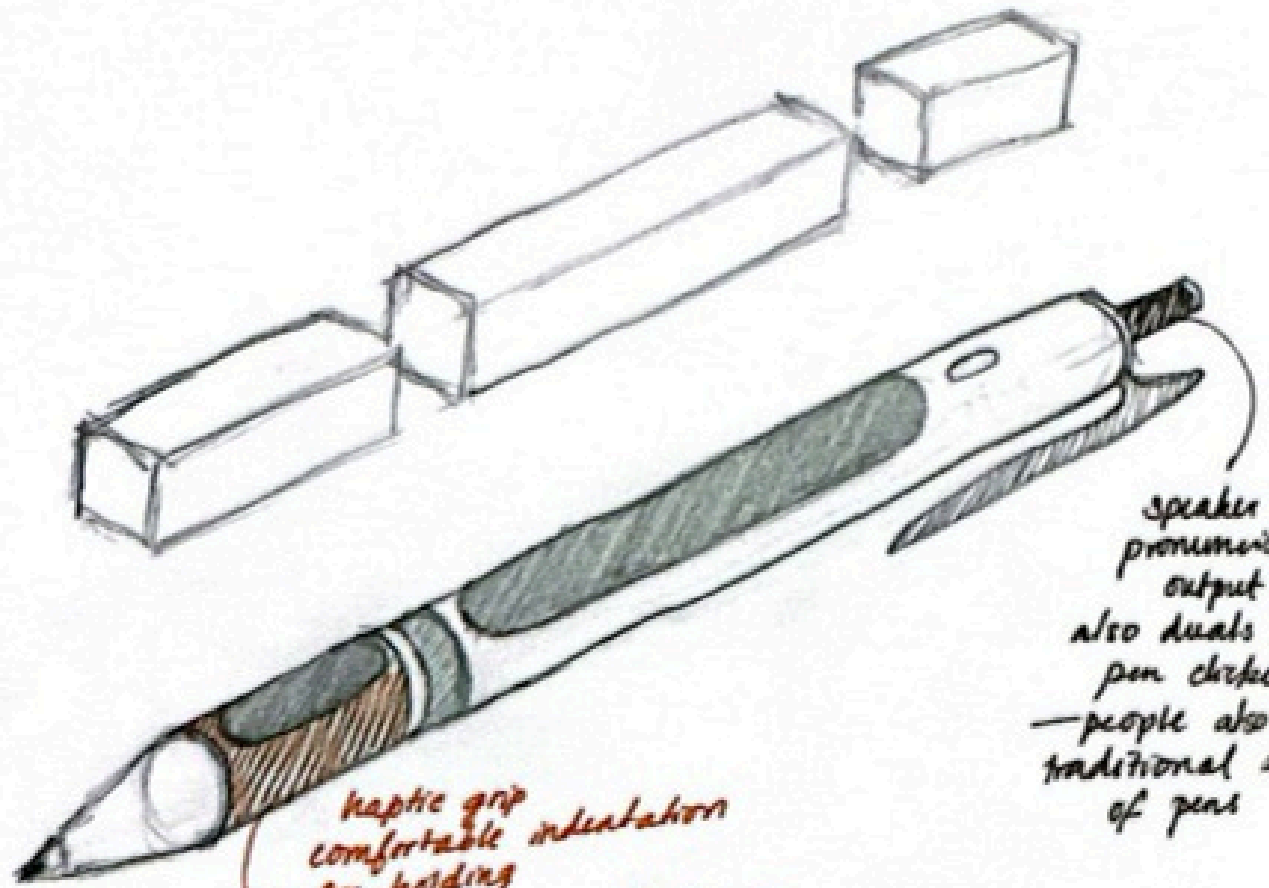
a

k

m

PRODUCT

SKETCHES



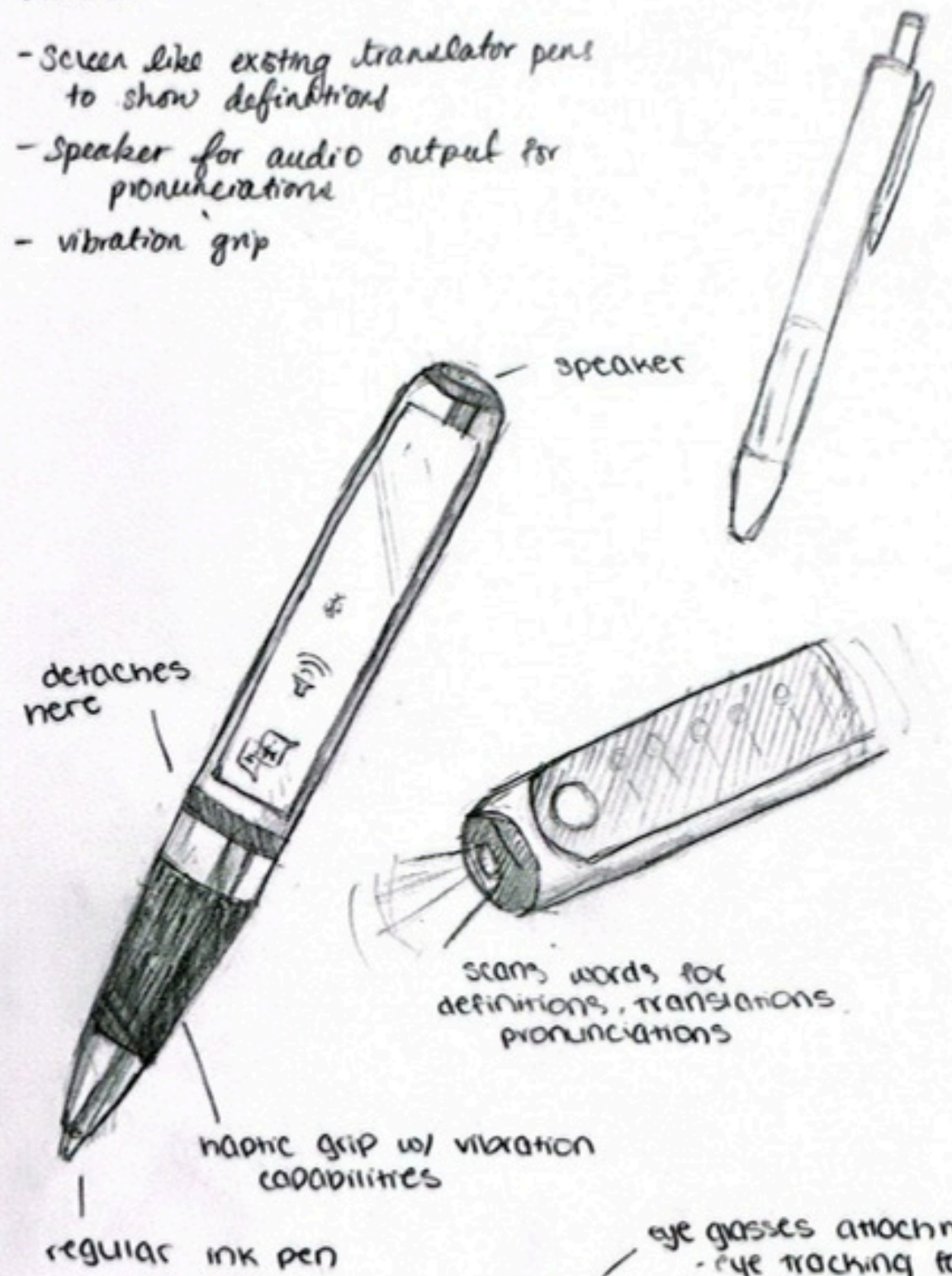
haptic grip
comfortable indentation
for holding
vibration node inside keeps
reading momentum

speaker for
pronunciation
output
also duals as
pen clicker
- people also like
traditional aspects
of pens

Innovators Forum Pitch 2: Health Innovation & Inclusive Design Principles

Features:

- Screen like existing translator pens to show definitions
- Speaker for audio output for pronunciations
- vibration grip



detaches here

speaker

scans words for
definitions, translations,
pronunciations

haptic grip w/ vibration
capabilities

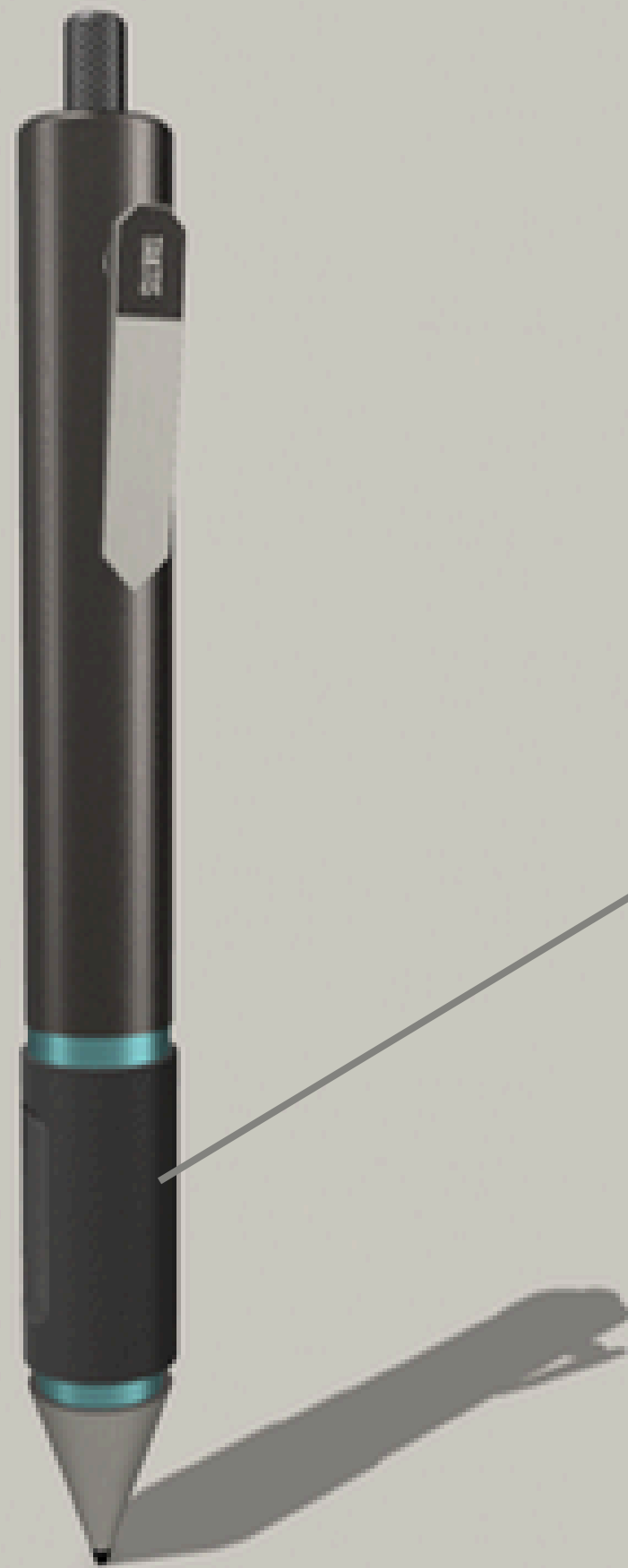
regular ink pen

wireless
connection
between pen
& glasses



eye glasses attachment
- eye tracking for
fatigue
- measures
fixation time
- eye regressions
- blinking &
gaze
wandering
- sync w/ haptic

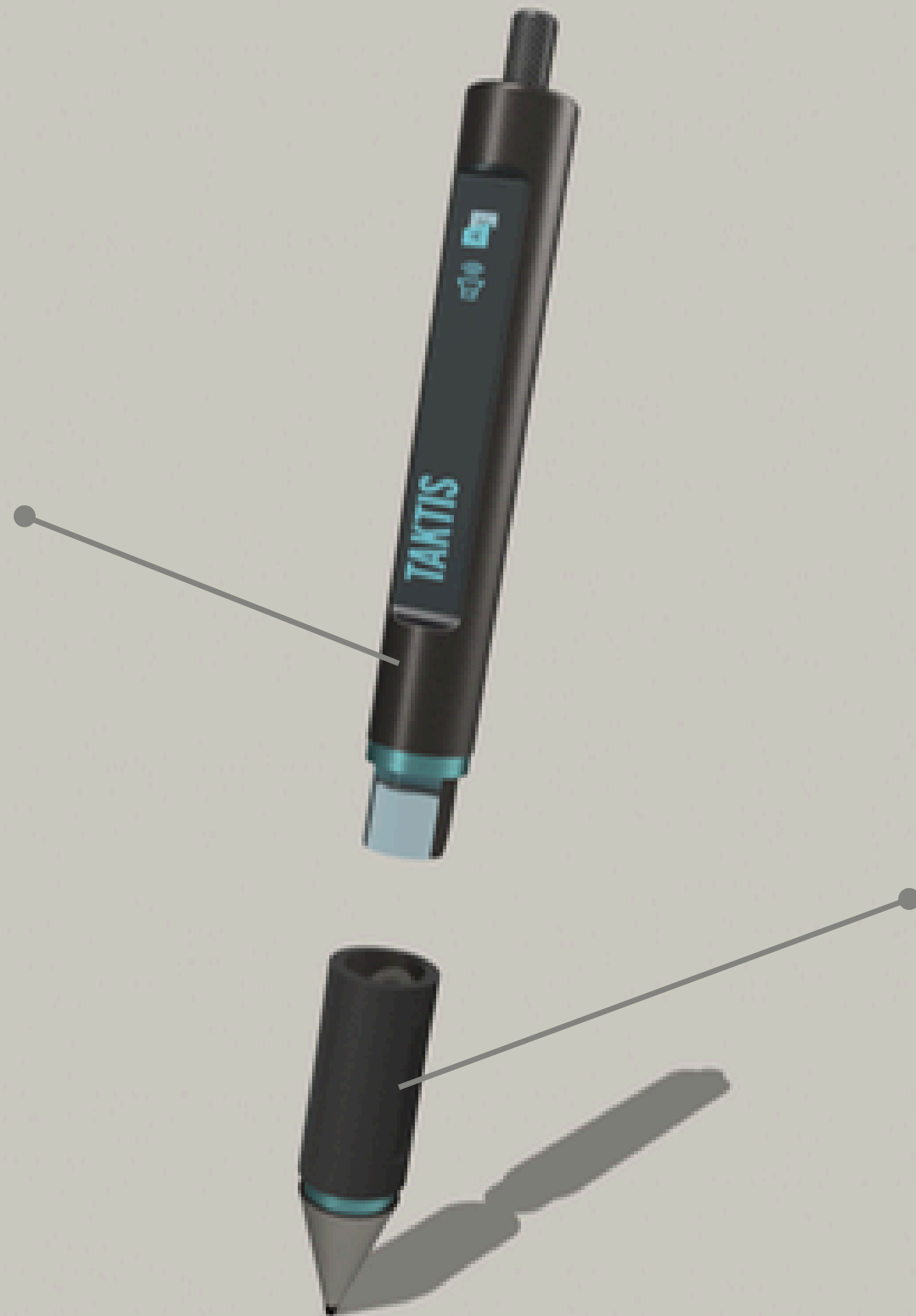
TAKTIS



VIBRATION GRIP

**BUILT-IN CAMERA &
INTERACTIVE SCREEN**

TAKTIS



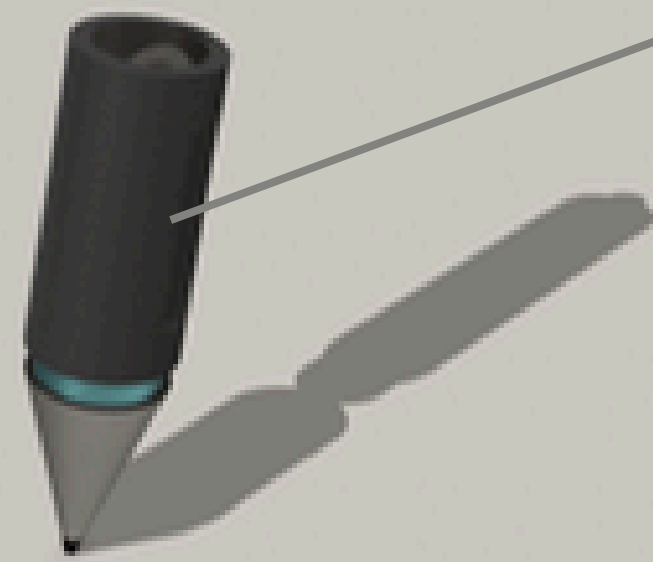
VIBRATION GRIP

**BUILT-IN CAMERA &
INTERACTIVE SCREEN**

CLICKER & SPEAKER



VIBRATION GRIP



TAKTIS

OUR COMMITMENT TO INCLUSIVITY

a

Ergonomic &
customizable UI

b

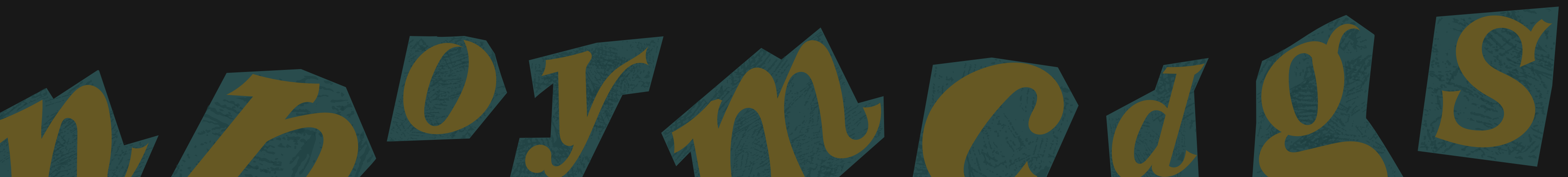
Multi-language

c

Audio & visual
accessibility

d

Emotional
support





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WHERE EVERY WORD **MOVES** WITH YOU

THANK YOU

