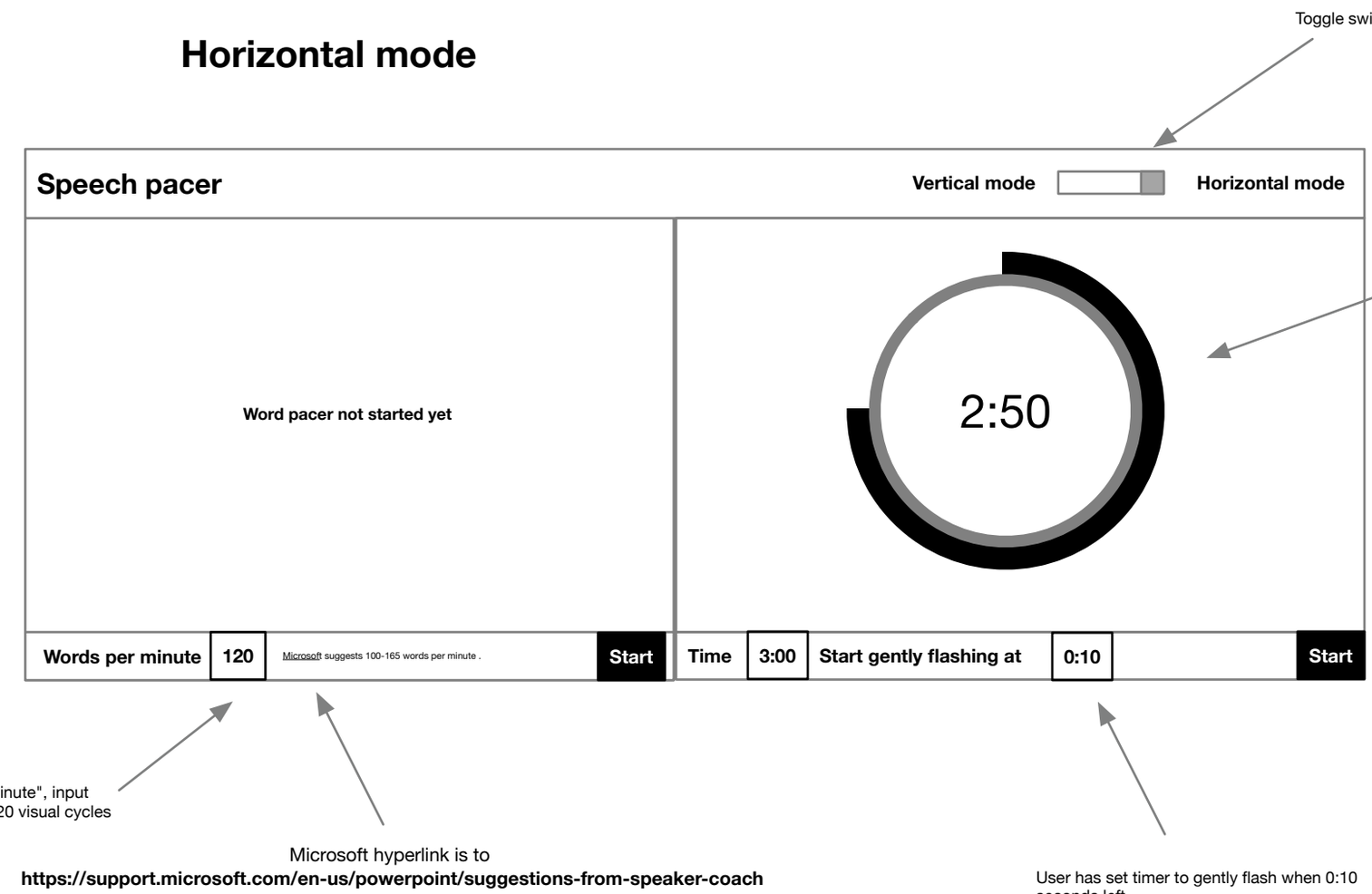
**Speech pacer. Two panes:**
– (1) A "pacer rectangle" that fades from dark to light and back in sinusoidal fashion and frequency: visual cycles as a cue for word pacing (here 120 cycles/min). Allows user to pace speech.

– (2)  A "speech timer" stopwatch that, below a certain time (here 0:10), starts gently flashing; and when out of time, starts un-gently flashing, while counting "over-time".

The app can be displayed in either horizontal mode (pacer left, timer right) or vertical mode (pacer top, timer bottom.)

## Horizontal mode




**Pane (1) – Pacer rectangle**, changing colour from dark to light – sinusoidal fashion, with parameters below.

Currently not started, so displaying instructions.

**Pane (1) – Stopwatch.** DIpslays countdown as a thick circle receding counter-clockwise over a thin circle.

Currently counting dowm from 3:00, at 2:50; at 0:10 it will start
gently flashing; beyond 0:00 it will start counting negative seconds.

While label says "words per minute", input frequency here (120) means 120 visual cycles per minute.

Microsoft hyperlink is to
**https://support.microsoft.com/en-us/powerpoint/suggestions-from-speaker-coach**

User has set timer to gently flash when 0:10 seconds left.
When 0 seconds left, un-gently flash, and begin to count "negative seconds".

## Vertical mode (low detail)

