

Mobile Technology Blurs Work-Life Boundaries



Maneuver with **hands**

Attention is diverted to the screen

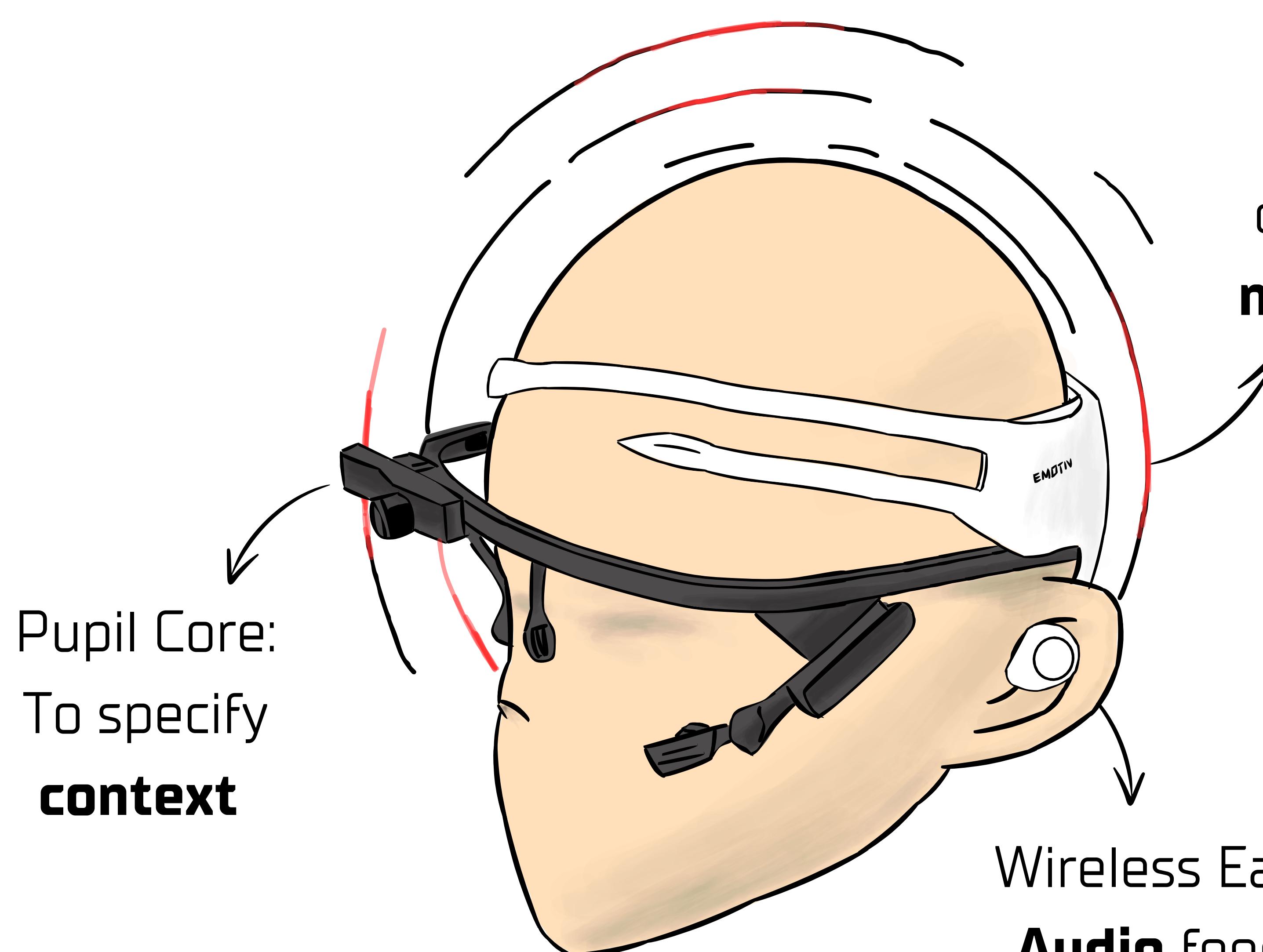
Unrelated **notifications** can appear

Need to **reach** for the device

We propose...

NeuroSight:

Combining Eye-Tracking and Brain-Computer Interfaces
for Context-Aware Hand-Free Camera Interaction



Pupil Core:
To specify
context

Wireless Earbuds:
Audio feedback

EMOTIV Insight:
Activates
camera modes via
mental commands

Visual Search

● Object Detected



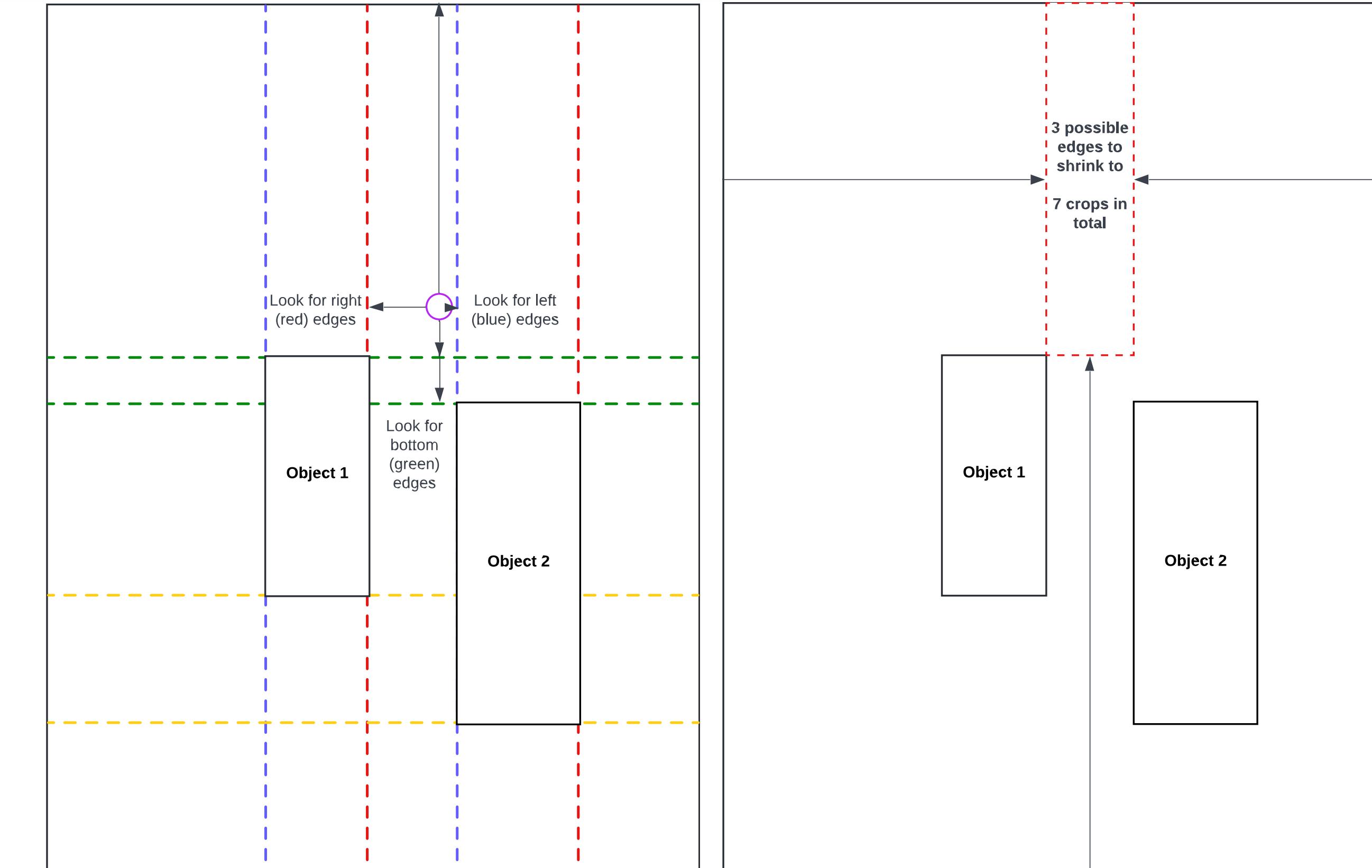
Google Text-To-Speech



Custom Crop Algorithm



Google Vision



Google Vision **does not detect all objects**
Recursively **crop** out some or all objects

Translation

● Foreign Text Detected



Google Text-To-Speech



Google Translate



Google Vision

For **every fixation** point change, run the translation

Extract text and **translate** it into English

Text is **spoken** back to the user