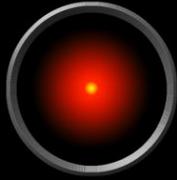


I'm sorry Dave,  
I'm afraid I can't do that.



2001: A Space Odyssey



JARVIS - Iron Man

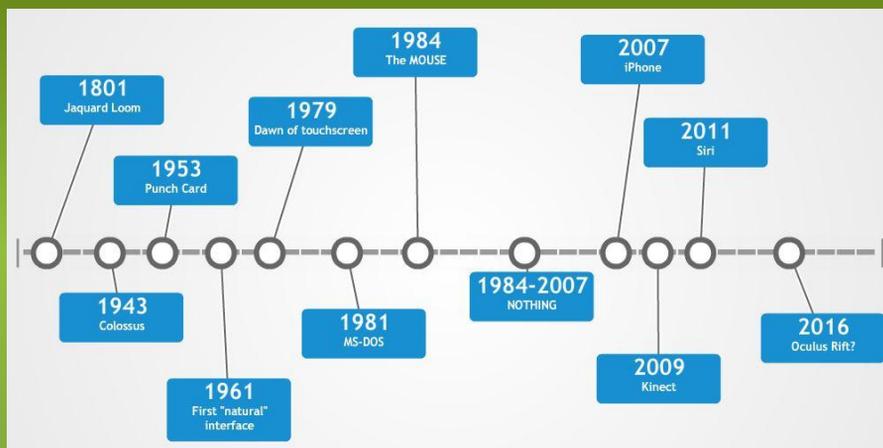
Tech Trends  
with Tine  
Webinar Series  
presents...

## New User Interfaces

Touch, thought, gesture,  
sight tracking... it's all the  
rage!

Tine Walczyk – May 13<sup>th</sup>, 2016  
tine@trainers-r-us.com

## Where we've been



<http://www.fastcodesign.com/1671960/why-the-human-body-will-be-the-next-computer-interface>

## User Interfaces of the Future

- Technology interacts with our senses
  - Whole idea is to have computer relate to us the way we interact instead of having to use I/O devices.
  - Best UI is the one you don't think about when you're using it
- We interact with technology intuitively
  - "As we move away from screens, a lot of our interfaces will have to become more automatic, anticipatory, and predictive," Andy Goodman says. "Once you get to the point that computers understand us, the next step is that computers get embedded in us, and we become the next UI."
- What's missing for computers to understand us is context

## The Interface Senses

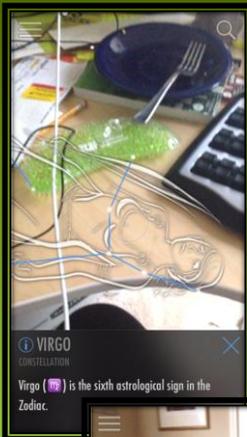
- Seeing (Augmented Reality/Virtual Reality and Ambient)
- Hearing (Sound and Voice)
- Touch/Motion (Haptics and Gesture)
- They ALL come from...  
(another interface!)



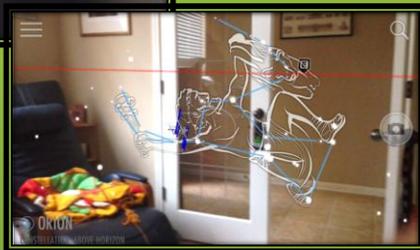
## Tech Trends with Tine

## What do we have now?

- AR apps
- 6<sup>th</sup> Sense
- Emotiv
- Siri / Dragon NaturallySpeaking
- Amazon Echo
- Nest
- Flexible Organic Light-Emitting Diode (FOLED)
- Henri



Skyview



AR Sandbox



Layar



Siftables



Emotiv



SixthSense



Oculus Rift



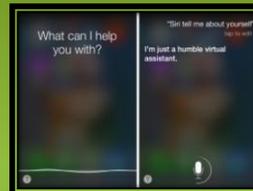
FOLED



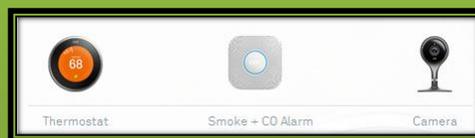
Henri - Ambient Interface



Amazon ECHO - Alexa



Siri



NEST

## Tech Trends with Tine

Some we have already hit this season...

- AR/VR
  - From AI/Robots/Drones
    - Jibo
  - From Wearables
    - Google Glass
    - Oculus
- Sound / Voice
  - From IoT
    - NEST

*Tech Trends  
with Tine  
Spring 2016*

## Tech Trends with Tine

## Gestures

- Controlling computer through motion
- Current Examples
  - Kinect
  - Sixth Sense



## Tech Trends with Tine

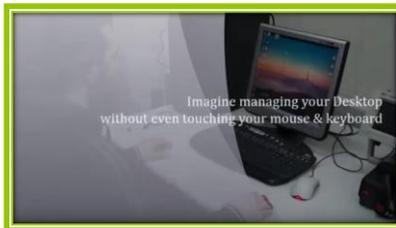
## Haptics

- Passive/Active tactile feedback to the user
- Current Examples
  - Galaxy S series phones
  - Clothing with “Spidey sense”
  - Telepresence medicine – robot surgery
  - Controller feedback
  - “touchable” VR/holograms
  - Siftables

## Tech Trends with Tine

## Brain waves

- Current tech
- Showing amazing progress



## So what about libraries...

- Helping the Public with New UI's
  - Lending
  - Training
  - Supporting
  - Promoting -  
<http://www.layar.com/news/blog/584>

## So what about IN libraries...

- Space design as a user interface -  
<https://futurelib.wordpress.com/2016/04/25/protolib-the-final-report/>
- 3D Book (Presidential Library in St. Petersburg)
- Future thoughts (8 new user interfaces to the library -  
<http://ebookfriendly.com/library-future-technologies/>)
  - Digital Library Bookmark
  - Digital interface for print books -  
(<https://youtu.be/QqKHDQ35ySc>)
  - Print on Demand machine
  - Drone delivery

## Resources

- The Future of User Interfaces - <https://youtu.be/iViiyjaaiyE>
- Human as next interface (timeline information) – <http://www.fastcodesign.com/1671960/why-the-human-body-will-be-the-next-computer-interface>
- SixthSense technology - <http://www.slideshare.net/navinec1/sixth-sense-technology-14652142>
- 1979 Gesture Interface presentation - <https://youtu.be/RyBEUyEtxQo>
- Future interface designs - <http://www.fastcodesign.com/>

Don't miss our last webinar of  
the season...

Grassroots, DIY, & Maker  
communities

See you May 20<sup>th</sup>!

Tech Trends with Tine Webinar presented on May 13<sup>th</sup> 2016.