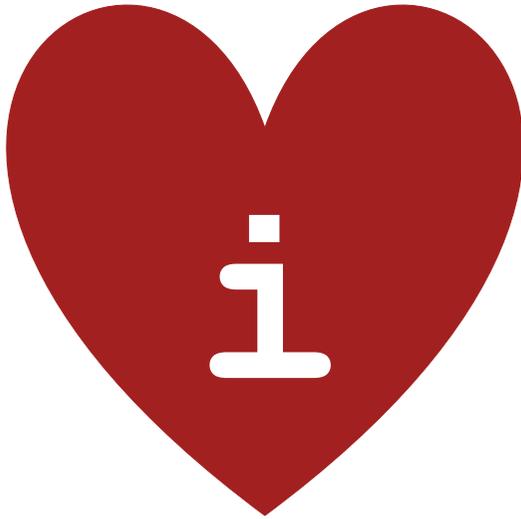




*Wearables: Empowering,  
transforming, inclusive*



**technology**



*"Google Glass has given me a whole new world," she said. "For 18 years, I wasn't able to take pictures whenever I wanted. I can't even describe how amazing that is. I can answer the phone and actually hear the person on the other end and they can hear me. When I get a text, I can read what the text says on the little prism and answer it."* ~ **Tammie Van Sant**

<http://mashable.com/2013/08/07/google-glass-disabled/>

*"My friends are always looking up things on their cellphones, I can do that now too really quickly," she said. With Glass you can search Google by simply saying "O.K. Glass, what is the weather going to be like tomorrow?"*

*~ Alex Blaszczyk*



<http://abcnews.go.com/Technology/google-glass-changing-quadruplegics-life/story?id=19918986>



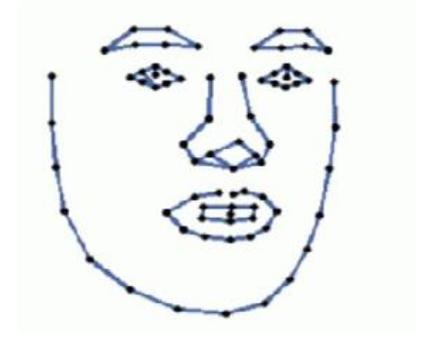
**Mobile Lorm Glove**  
*Design Research Lab*



**Enable Talk**  
*Team of Ukrainian students*



**Real-time captioning – Google Glass**



**Face-tracking software**  
*Sension*



***Communication***



**Tacit sonar for the blind**  
*Grathio Labs*



**Navigate Jacket**  
*Wearable Experiments*



**Haptic footwear**  
*Lechal*



***Navigation***



**Surrosense**  
*Orpyx*



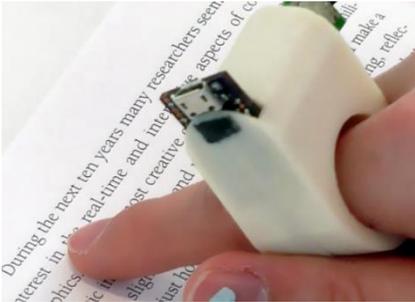
**ReWalk Personal System**  
*ReWalk Robotics*



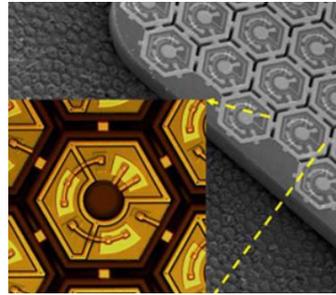
**Tempo**  
*Care predict*



# *Health and Therapy*



**FingerReader**  
*Fluid Interfaces*



**Photovoltaic Prosthesis**  
*Stanford University*



**Object identification**



**Q Sensor**  
*Affectiva*



***Other cool stuff***

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*“The power of the Web is in its universality. Access by everyone regardless of disability is an essential aspect”.*

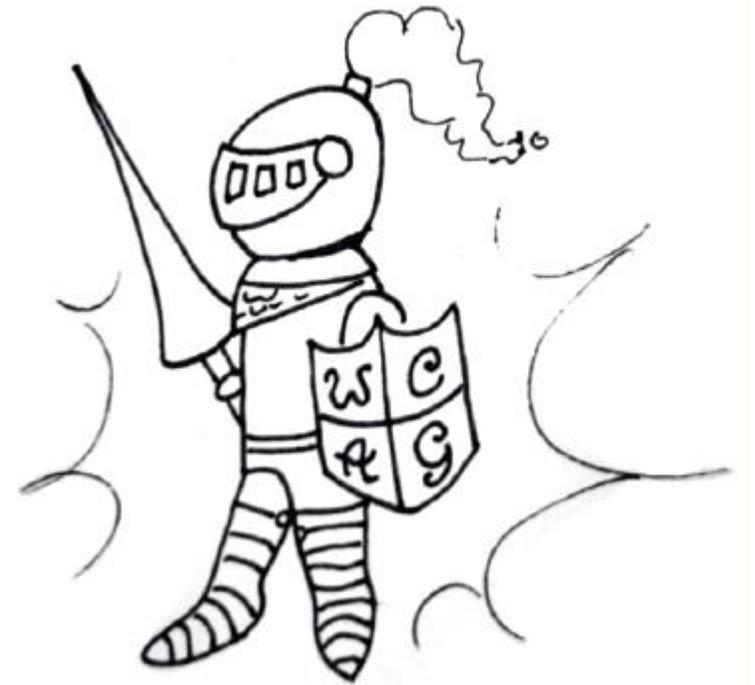
*Tim Berners-Lee, 1997*

***Thank you***

Sarah Pulis

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@sarahtp



**a11y champion**

Download the attitude  
adjuster cards from  
[bit.ly/attitude-adjuster](http://bit.ly/attitude-adjuster)

# Resources

## Communication

[Mobile Lorm Glove](#) | Design Research Lab

*Gloves that translate hand-touch alphabet Lorm into text , and vice versa*

[Enable talk](#) | Team of Ukrainian Students

*Gloves that translate sign language into speech. Won first prize in Microsoft Imagine Cup 2012.*

[Sign Language Ring](#) | Asia University

*Set of rings and a bracelet that detects motion when a person signs and translates to voice/text.*

[Sign Language Recognition and Translation with Kinect](#) | Chinese Academy of Sciences

[Sony Entertainment Access Glasses](#) | Sony

*Sony Entertainment Access Glasses present closed captions on the lens for movie goers. Used in [Regal Cinemas](#).*

[Real-time captions via Google Glass](#) | 1CapApp

*Delivers real-time captions via Google Glass*

[Face-tracking software](#) | Sension

*Face-tracking engine that can help people to better recognize and understand the expressions and emotions of others.  
Application: autism.*

# Resources

## Navigation

[Tacit sonar for the blind](#) | Grathio Labs

*Wristed mounted device that measure the distance to objects and uses pressure on the wrist to convey distance.*

[Navigate Jacket](#) | Wearable Experiments

*Helps users find their destination via LED lighting and haptic feedback. Works with mobile app for GPS feature. LED lights indicate how far to the next turn. Vibrations alert user to turn in which direction.*

[Haptic footwear](#) | Lechal

*Can control app using foot gestures or voice comment for input to use as navigation tool or fitness tracking. Available as either insoles or shoes.*

## Health

[SurroSense Rx System](#) | Orpyx

*Helps to prevent foot ulcers with real-time feedback by collecting pressure data from the foot through sensors in the shoe.*

[ReWalk Personal System](#) | ReWalk Robotics

*Wearable robotic exoskeleton with FDA clearance.*

Tempo Care predict

*Tracks daily patterns and learns what your normal activity and routine is. Can alert someone if there is a change that could be an issue.*

# Resources

## Health (con't)

[Care predict](#) | Tempo

*Tracks daily patterns and learns what your normal activity and routine is. Can alert someone if there is a change that could be an issue.*

## Other cool stuff

[FingerReader](#) | Fluid Interfaces

*Scans a line of text and reads out the text and uses haptic feedback for layout.*

[Photovoltaic Prosthesis](#) | Stanford University

*“The photovoltaic (PV) chips, surgically placed under the retina, convert light into electric currents triggering signals in the retina, which then flow to the brain, enabling a patient to regain their vision. Operates like a tiny solar cell.”*

[Q Sensor](#) | Affectiva

*Detects and records physiological signs of stress and excitement by measuring slight electrical changes in the skin.*