

VR & WEB



VR INTERFACES



VR INTERFACES

Definition of virtual reality:

“an artificial environment which is experienced through sensory stimuli (such as sights and sounds) provided by a computer and in which one's actions partially determine what happens in the environment” – (Webster, 1927)

VR Interface:

Software or hardware that enables interaction between the user and the VR world generated by the computer.

- Immersive
- Various possibilities in usage
(Education, Rehabilitation,
etc)
- Safe testing and training
environments
- Ease of use and accessibility

STRENGTHS

- Cost
- Hardware (wires, headgear, etc)
- Technology still not yet there to better interface with the virtual world
- Physical and mental side effects

WEAKNESSES

VR EXAMPLES



Samsung VR Gear

VR EXAMPLES



Samsung VR Gear UI

VR EXAMPLES



HTC Vive

VR EXAMPLES



Playstation VR

VR EXAMPLES



IBM SAO VR TEST

<https://www.youtube.com/watch?v=Z2X582BweQk>

- Use cases that require a simulated environment
 - Transportation training (Driving, Aircraft, Spacecraft or Seacraft simulations)
 - Weapons training (Shooting and bomb disarming)
 - Space environment simulations

Suitability

The background is a dark blue, semi-transparent overlay on a photograph of a desk. The desk features a laptop, a tablet, and a smartphone, all displaying various web interfaces. The laptop screen shows a dashboard with charts and a sidebar. The tablet displays a product catalog with images of bottles. The smartphone shows a list of items. A pair of glasses is visible on the left side of the desk. The overall theme is digital technology and user interfaces.

WEB INTERFACES

WEB INTERFACES

Web Browsers

Receive and transmit data from one location to another

BEFORE:

View content and information E.g. text, video images
Hyperlinks

NOW:

shopping, banking, cloud computing, browser based apps, data storage

WEB EXAMPLES

amazon.in All ipad

Shop by Category ▾ Monika's Amazon.in Today's Deals Gift Cards Sell Customer Service

20% off or more Beauty Bounty | APP ONLY

Hello, Monika Your Orders ▾ Wish List ▾ Cart 3

1-24 of 133 results for Computers & Accessories : Tablets : "ipad" Sort by Relevance

Show results for

- < Any Category
- < Computers & Accessories
- Tablets

Refine by

Avg. Customer Review

- ★★★★★ & Up (92)
- ★★★★☆ & Up (114)
- ★★★☆☆ & Up (119)
- ★★☆☆☆ & Up (119)

Fulfilled By Amazon (What's this?)

☐ Fulfilled

Cash On Delivery (What's this?)

☐ Eligible for Cash On Delivery (80)

Features

- ☐ 3G (15)
- ☐ Wi-Fi (87)
- ☐ Call Facility (24)

Brand

- ☐ Apple
- ☐ Ipad Air
- ☐ Mi
- ☐ Plastron
- ☐ Unique Gadget
- ☐ Wacom

Showing results in Computers & Accessories. Show instead results in All Categories.

See available choices

Apple iPad Mini 2 (16GB, WiFi), Space Grey
by Apple

₹21,900.00 ~~₹42,000.00~~ **Fulfilled**

Only 1 left in stock - order soon.

More Buying Choices
8 offers from ₹18,950.00

Cash on Delivery eligible.

★★★★☆ 451

See available choices

Apple iPad Air 2 (Gold, 64GB, WiFi)
by Apple

₹36,720.00 ~~₹42,000.00~~ **Fulfilled**

You Save: ₹6,180.00 (14%)

Only 1 left in stock - order soon.

More Buying Choices
15 offers from ₹36,660.00

Cash on Delivery eligible.

★★★★☆ 62

See available choices

Apple MH2P2LL/A Tablet (9.7 inch, 64GB, Wi-Fi+3G+Voice Calling), Gold
by Apple

₹44,177.00 ~~₹52,000.00~~ **Fulfilled**

You Save: ₹8,723.00 (16%)

Only 1 left in stock - order soon.

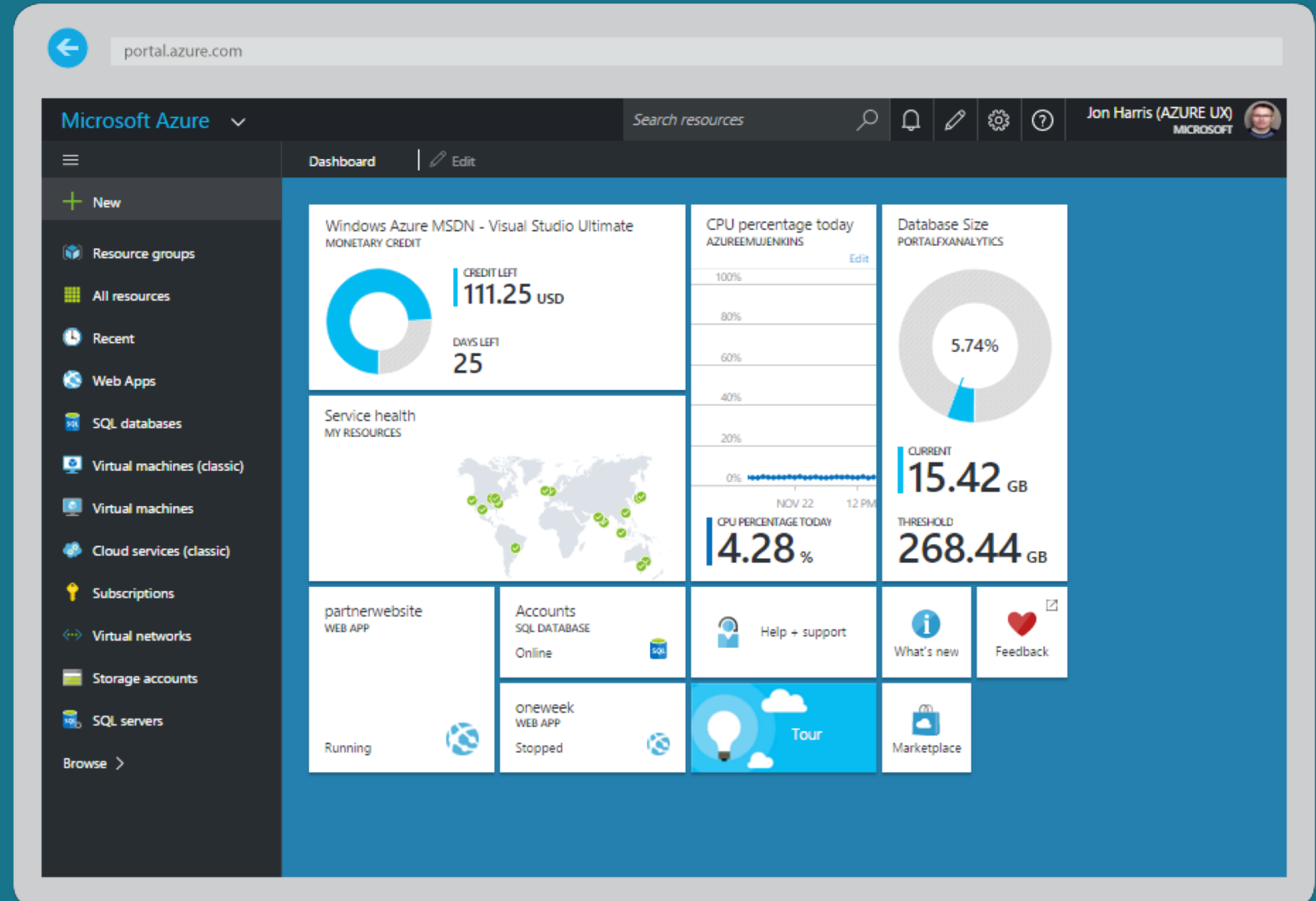
More Buying Choices
13 offers from ₹44,177.00

Cash on Delivery eligible.

★★★★☆ 76

Amazon: Online Shopping

WEB EXAMPLES



Microsoft Azure: Cloud Computing

WEB EXAMPLES

The screenshot displays the Lloyds Bank online banking dashboard. At the top, the header includes the Lloyds Bank logo, a navigation menu with 'Our products & services', and a 'Safe & secure' status indicator. Below the header, a user profile bar identifies 'Miss G. Benjamin' with her last login time. The main content area is divided into several sections: a notification box (1) for new documents, a 'Make a quick transfer' button (2), a 'Premier Account' summary showing a balance of £2,511.27, and a 'Credit Card' summary showing a balance of -£831.15. A 'Share' section is visible at the bottom. Numbered annotations highlight specific UI elements: 1 points to a document notification, 2 points to a transfer button, 3 points to the top navigation menu, and 4 points to the 'More actions' button for the credit card.

LLOYDS BANK Our products & services Safe & secure

Miss G. Benjamin
Last logged in yesterday at 9:45pm

1 15 APRIL
You have 2 new documents
1 important
View inbox

2 Make a quick transfer Pay an existing recipient

PREMIER ACCOUNT 77-61-23 00495760
£2,511.27 Balance
£3,511.27 Available funds including your £1,000 overdraft
You could earn up to 3% interest. Find out how
4 More actions

CREDIT CARD *****9876
-£831.15 Balance
£5,168.85 Available credit (credit limit £6,000)
£720.00 Balance on last statement
£17.00 Overdue amount
More actions

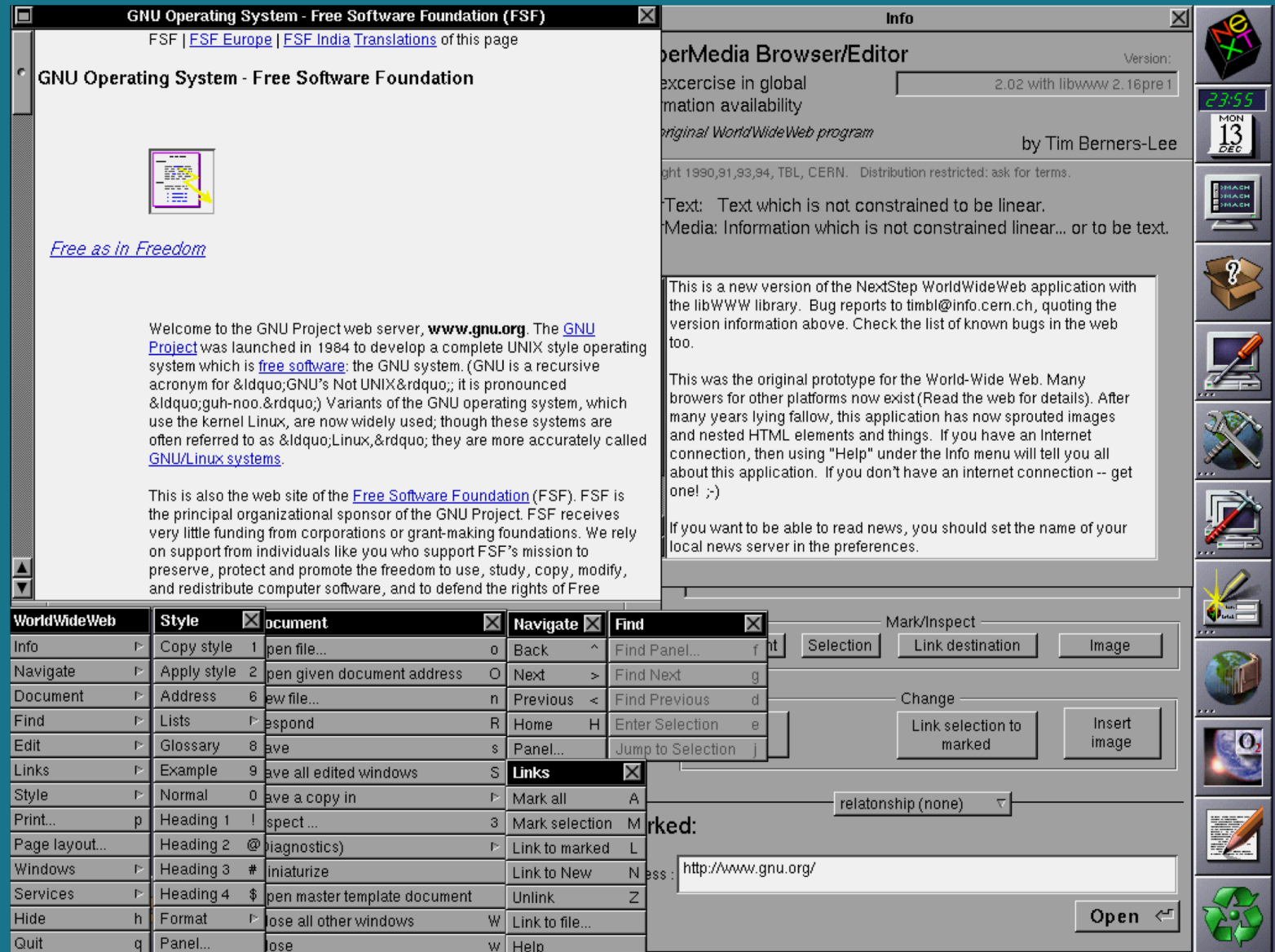
EVERYDAY OFFERS
Total cashback earned
£12.36
4 current offers, including
Argos THE BODY SHOP MORRISONS
View all offers

GET FREE ADD ONS

SHARE
CREATE A JOINT ACCOUNT

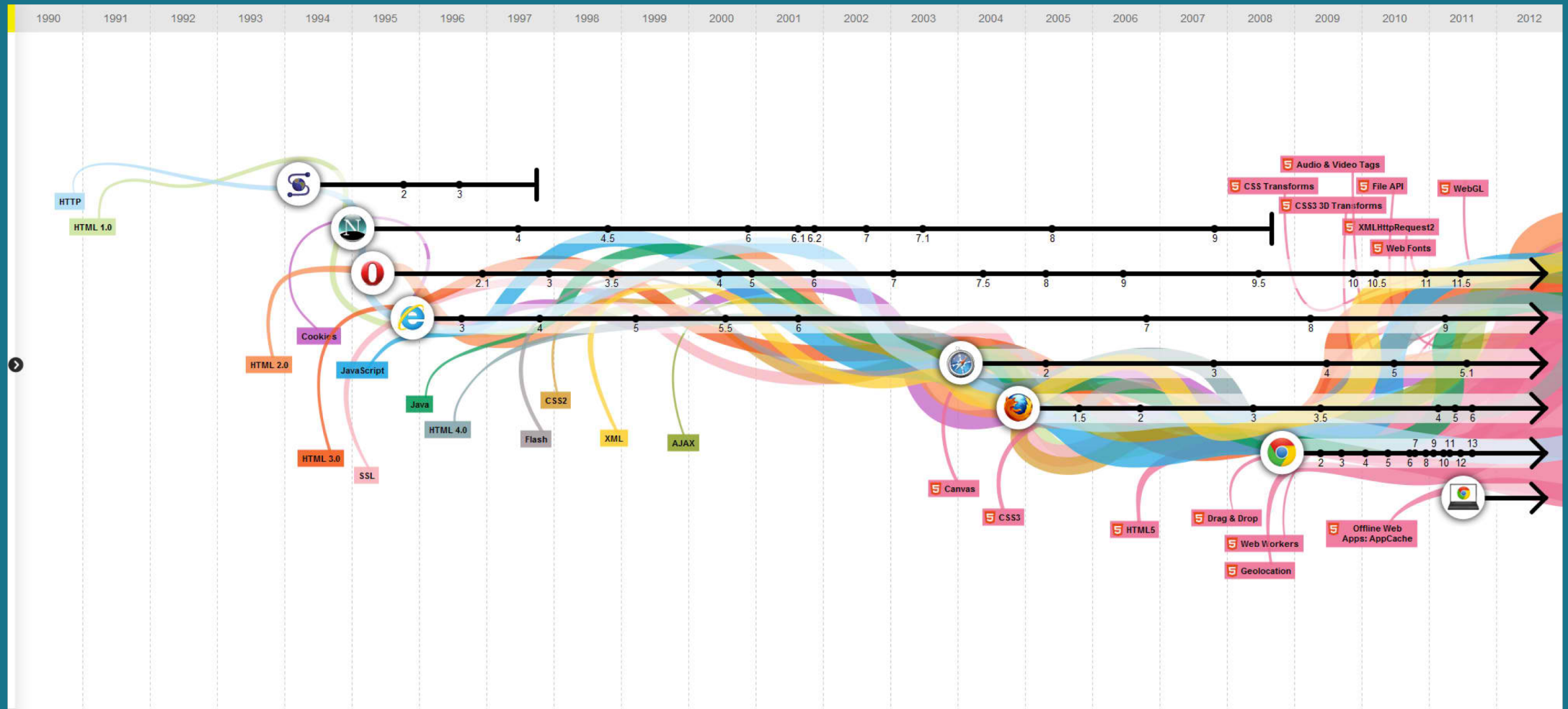
Online Banking

WEB EXAMPLES



WorldWideWeb-First Browser

EVOLUTION OF THE WEB



<http://www.evolutionoftheweb.com/#/evolution/day>



INTERACTIVITY

- Portable
- Flexible
- Data stored remotely
- Ease of use and accessibility

STRENGTHS

- Limited scope and functionality
- Harder to be discovered
- Supporting multiple mobile browsers results in higher costs
- Requires reliable internet connections

WEAKNESSES

Recommendations And References

- Recommended Readings:
 - VR
 - Two-minute papers youtube channel:
<https://www.youtube.com/user/keeroyz>
 - The Verge: <https://www.theverge.com/>
 - Smashing magazine:
<https://www.smashingmagazine.com/2017/02/getting-started-with-vr-interface-design/>
 - Web
 - NCBI BLAST: a better web interface
https://academic.oup.com/nar/article/36/suppl_2/W5/2505810
 - <http://www.evolutionoftheweb.com>

Recommendations And References

- References

- Fuchs, P., Moreau, G., & Guitton, P. (2011). *Virtual reality. [electronic resource] : concepts and technologies*. Boca Raton, FL : CRC Press, c2011.
- Virtual Reality Strengths & Weaknesses. (2017, August 03). Retrieved February 25, 2018, from <https://rtvirtualreality.com/virtual-reality-strengths-weaknesses/>
- Rizzo, A. , & Kim, G. J. (2005). A SWOT Analysis of the Field of Virtual Reality Rehabilitation and Therapy. *Presence: Teleoperators and Virtual Environments*, 14(2), 119-146. doi:10.1162/1054746053967094
- Google, H. V. (n.d.). The evolution of the web. Retrieved February 25, 2018, from <http://www.evolutionoftheweb.com/>