

# TIPOS DE INTERFACES

## IIC3182- INTERFACES HUMANO-COMPUTADOR

### Referencias:

- Preece, Rogers, Sharp. Interaction Design: beyond human-computer interaction (5<sup>th</sup> edition). Wiley, 2019 (Chapter 3).

# PUBLICADO:

Enunciado Tarea 1

Links para entregas Lecturas

# ¿QUÉ TIPOS DE INTERFACES CONOCEN?

Menti

# INTERFACES

**Función:**  
Inteligente  
Adaptiva  
Ambient

**Plataforma:**  
Computador  
Tablet  
Móvil  
Wearable

**Input/Output**  
Lápiz  
Gestos  
Voz

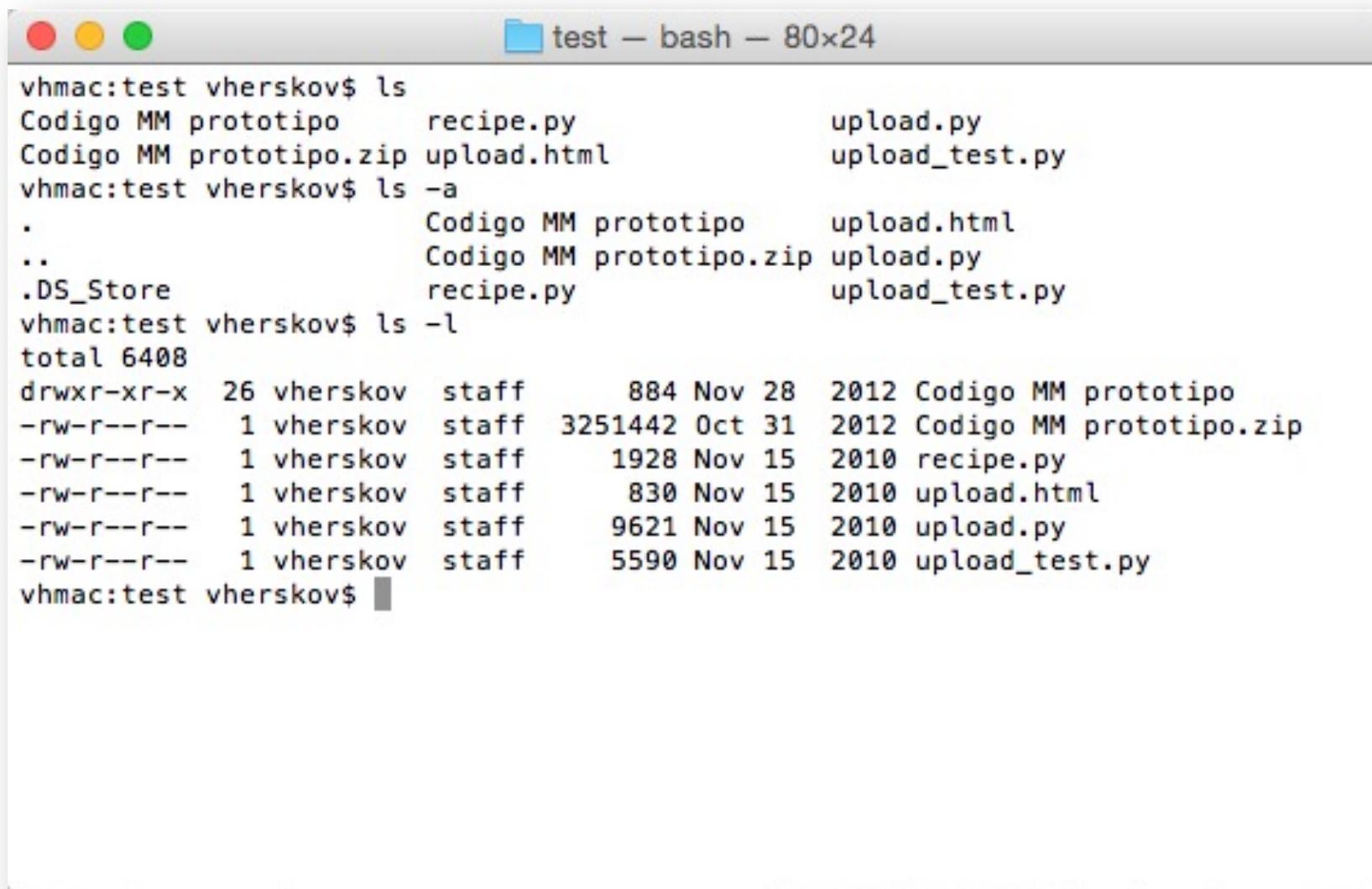
**Estilo de Interacción:**  
Gráfico  
Comandos  
Multimedia

# CÓMO LAS VEREMOS?

Tipos principales

En orden cronológico aproximado

# 1. COMMAND-LINE-BASED



vhmac:test vhereskov\$ ls  
Codigo MM prototipo recipe.py upload.py  
Codigo MM prototipo.zip upload.html upload\_test.py  
vhmac:test vhereskov\$ ls -a  
. Codigo MM prototipo upload.html  
.. Codigo MM prototipo.zip upload.py  
.DS\_Store recipe.py upload\_test.py  
vhmac:test vhereskov\$ ls -l  
total 6408  
drwxr-xr-x 26 vhereskov staff 884 Nov 28 2012 Codigo MM prototipo  
-rw-r--r-- 1 vhereskov staff 3251442 Oct 31 2012 Codigo MM prototipo.zip  
-rw-r--r-- 1 vhereskov staff 1928 Nov 15 2010 recipe.py  
-rw-r--r-- 1 vhereskov staff 830 Nov 15 2010 upload.html  
-rw-r--r-- 1 vhereskov staff 9621 Nov 15 2010 upload.py  
-rw-r--r-- 1 vhereskov staff 5590 Nov 15 2010 upload\_test.py  
vhmac:test vhereskov\$



**TextSL:**  
**A Screen Reader Accessible**  
**Interface for Second Life**

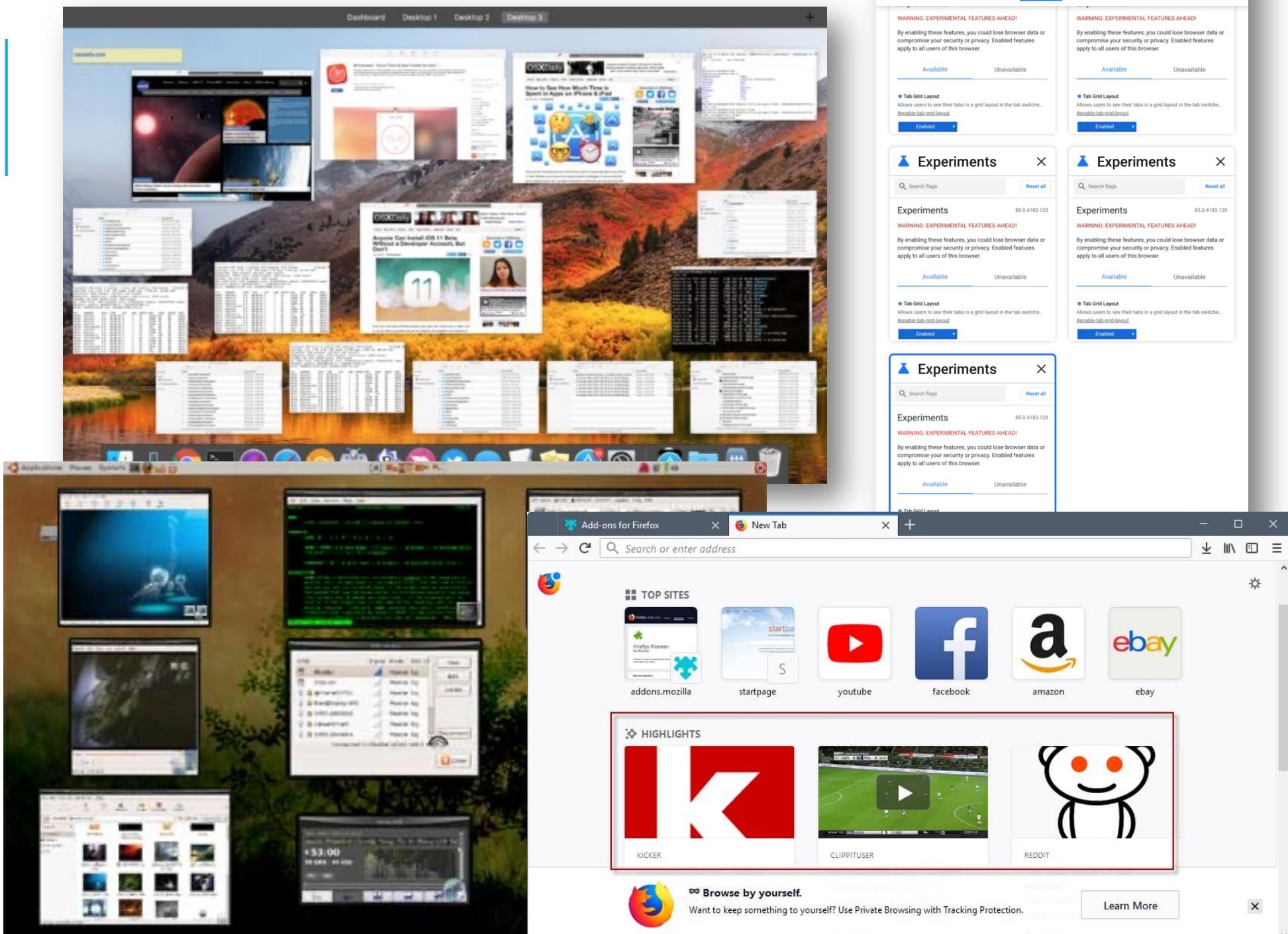
describe people

[https://www.youtube.com/watch?v=0Ba\\_w7u44MM](https://www.youtube.com/watch?v=0Ba_w7u44MM)

## 2. GRAPHICAL



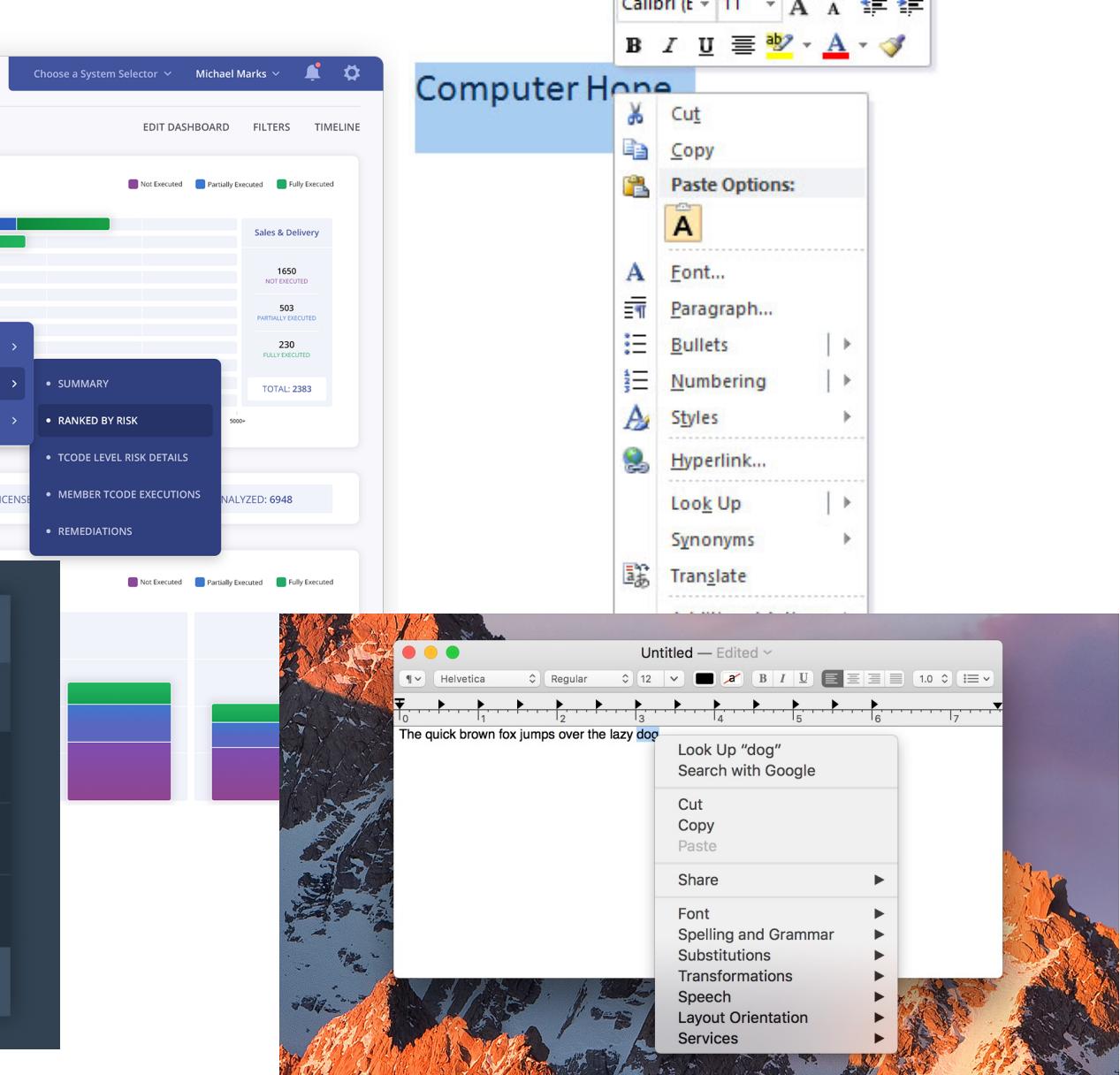
# WINDOWS



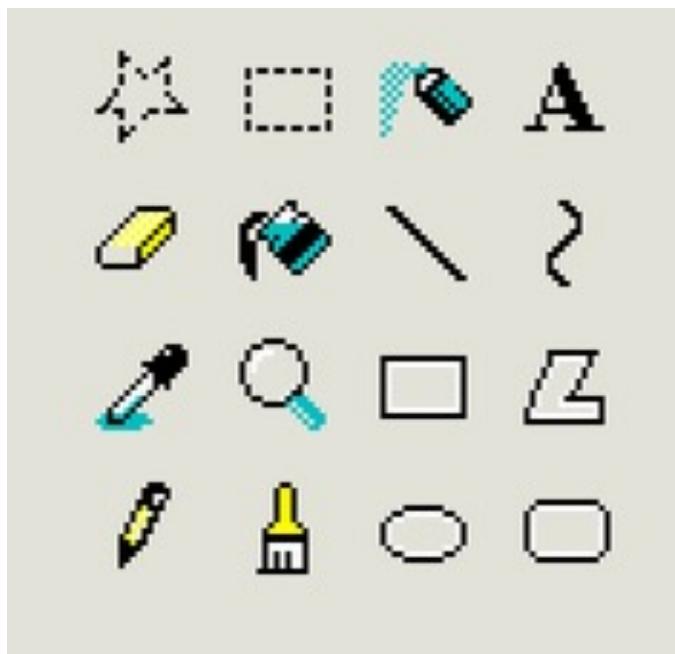
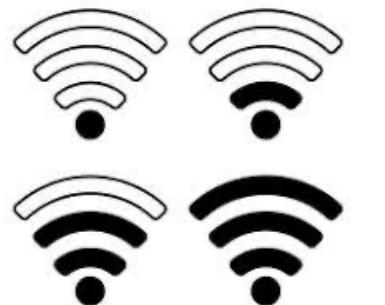
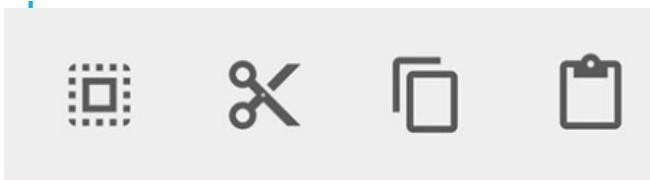
# MENUS

Flat lists, drop-down, pop-up, contextual, collapsible, mega, expanding (e.g. cascading)

The screenshot shows the ERP Maestro application interface. On the left is a vertical sidebar with icons and labels for various modules: HOME, ANALYSIS (selected), WHAT IF ANALYSIS, EAM, SECURE PROVISIONING, ACCESS REVIEWER, RULEBOOKS, ACTIVITY HISTORY, JavaScript, ADOBE (with sub-options for Photoshop, Illustrator, Dreamweaver), and Multi-Level. The main content area displays a dashboard titled 'HOME' with a section for 'USER RISKS BY BUSINESS PROCESS'. A detailed menu tree under 'ANALYSIS' includes 'ONE CLICK ANALYSIS REPORTS', 'ONLINE REPORTS' (selected), 'USER BASED REPORTS', 'ROLE BASED REPORTS', 'SUMMARY', 'RANKED BY RISK', 'TCODE LEVEL RISK DETAILS', 'EXECUTIONS REPORTS', 'MEMBER TCODE EXECUTIONS', and 'REMEDIATIONS'. At the bottom of the dashboard, there are status indicators for 'USERS ANALYZED: 3001' and 'EXECUTIONS ANALYZED: 6948'.



# ICONS



Monitor de  
Actividad



Terminal



Mail



Mapas

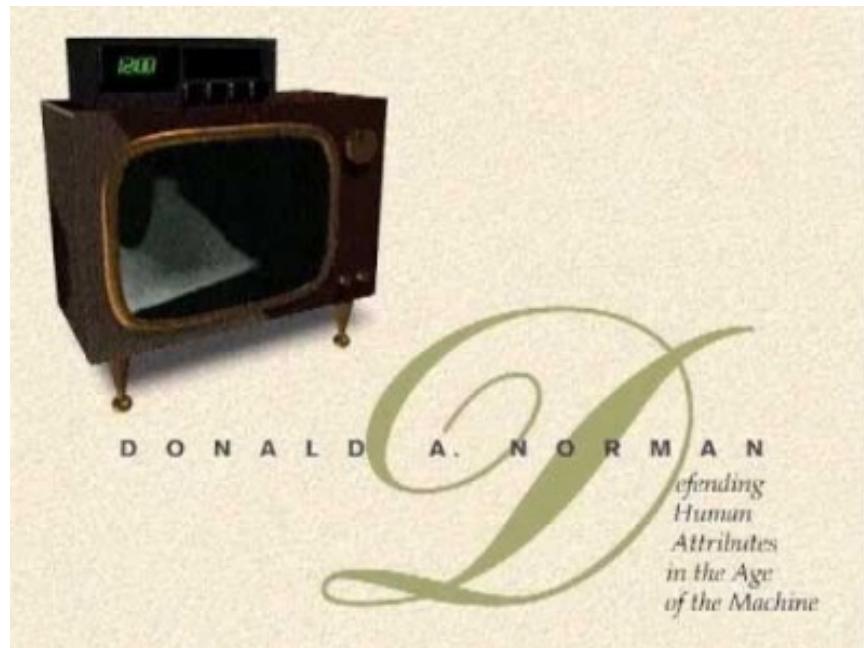


# 3. MULTIMEDIA

Combinación de distintos medios en una sola interfaz

Channel hopping

<https://vimeo.com/18687931>



# 4. REALIDAD VIRTUAL



## 4. REALIDAD VIRTUAL

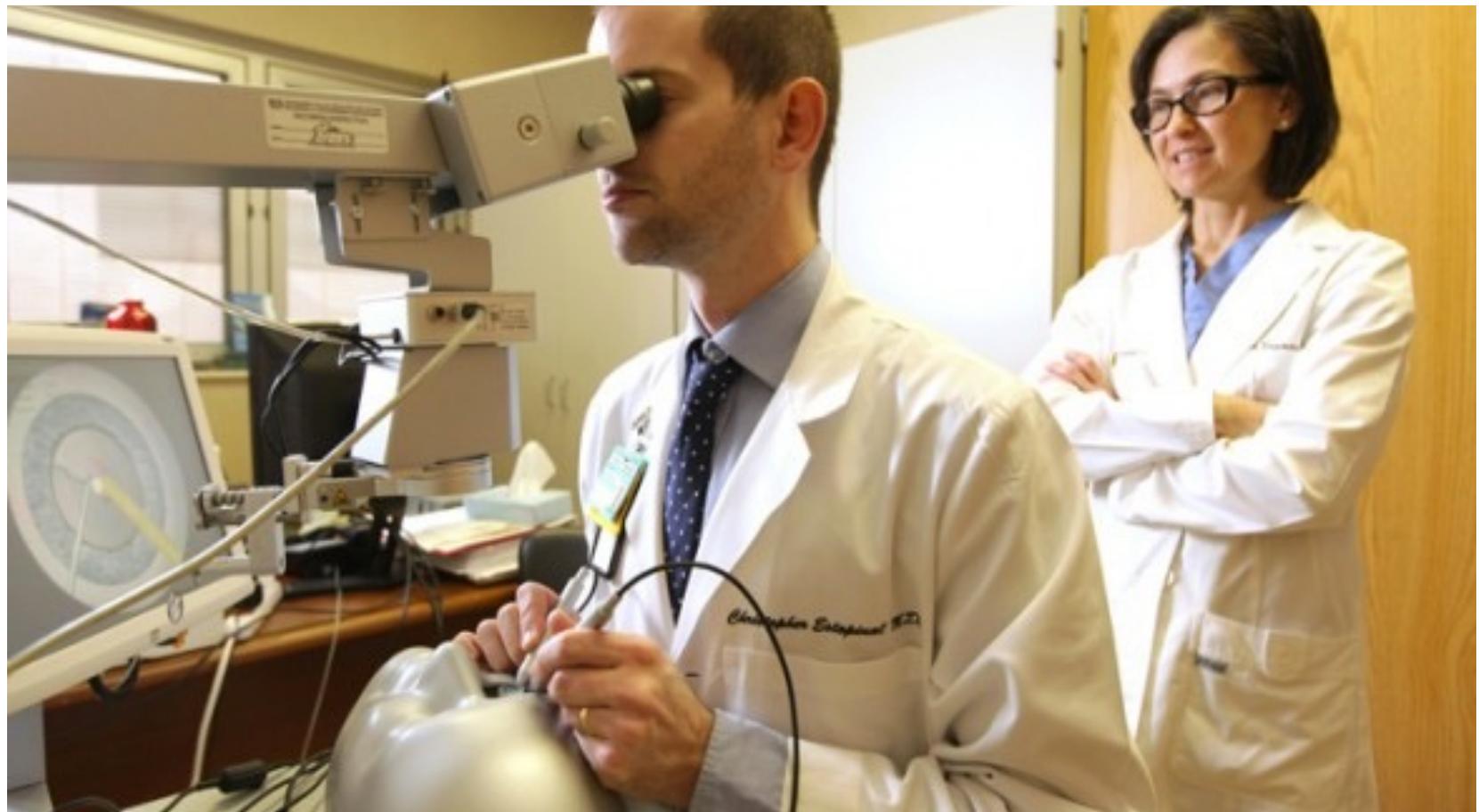


# REALIDAD VIRTUAL



<https://www.youtube.com/watch?v=T9RJzG2zEcw>

# 4. REALIDAD VIRTUAL



## 4. REALIDAD VIRTUAL PARA EMPATÍA



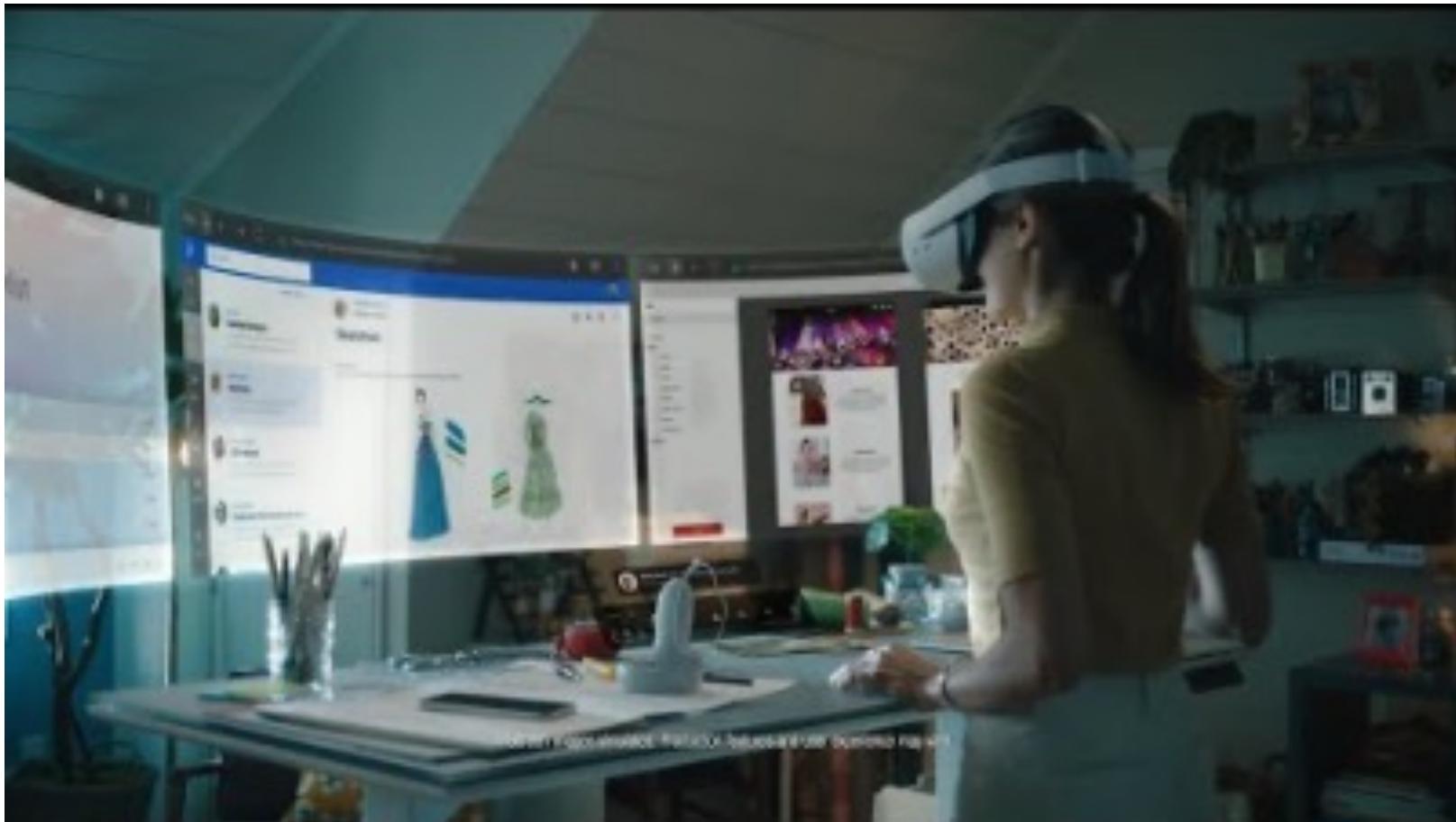
## 4. REALIDAD VIRTUAL: JUEGOS

[https://www.youtube.com/watch?v=D\\_He1FGTy3c](https://www.youtube.com/watch?v=D_He1FGTy3c)

<https://www.youtube.com/watch?v=60yP8f5E-B4> (**advertencia:** disparos, zombies, etc)



## 4. REALIDAD VIRTUAL: INFINITE OFFICE



[https://www.youtube.com/watch?v=5\\_bVkbG1ZCo](https://www.youtube.com/watch?v=5_bVkbG1ZCo)

# 5. WEB

## Web al inicio-

- <http://classics.mit.edu/>
- <http://eo.ucar.edu/skymath/tmp2.html>

The screenshot shows the homepage of the Internet Classics Archive at classics.mit.edu. At the top, there's a navigation bar with links for Home, Search, and Log In. The main header features a classical building illustration and the text "the Internet Classics Archive". Below the header, a banner reads "Bringing the wisdom of the classics to the Internet since 1994." On the left, there's a sidebar with links for "Browse and Comment", "Search", "Buy Books", "Help", and "Other Links". The main content area contains several sections: "Browse and Comment" (with a link to 441 works by 59 authors), "Search" (describing powerful queries), "Buy Books" (linking to Amazon.com), "Help" (linking to help pages), and "Other Links" (linking to other classical and electronic text resources). On the right side, there are "Announcements" (mentioning a restoration project starting in spring 2011), "Acknowledgments and Awards", and "Information and Privacy Policy". At the bottom right, there are logos for "Made with Macintosh" and "Web Atomics".

## About Temperature

This document was prepared for the middle school math teachers who are taking part in [Project Skymath](#). It is also hoped that the general public will find it interesting.

Disponible en español, toque [aqui](#).

### Contents (click on star)

- ★ What is Temperature
- ★ The Development of Thermometers and Temperature Scales
- ★ Heat and Thermodynamics
- ★ The Kinetic Theory
- ★ Thermal Radiation
- ★ 3 K - The Temperature of the Universe
- ★ Summary
- ★ Acknowledgments
- ★ References

### What is Temperature?

In a qualitative manner, we can describe the temperature of an object as that which determines the sensation of warmth or coldness felt from contact with it.

It is easy to demonstrate that when two objects of the same material are placed together (physicists say when they are put in thermal contact), the object with the higher temperature cools while the cooler object becomes warmer until a point is reached after which no more change occurs, and to our senses, they feel the same. When the thermal changes have stopped, we say that the two objects (physicists define them more rigorously as systems) are in *thermal equilibrium*. We can then define the temperature of the system by saying that the temperature is that quantity which is the same for both systems when they are in thermal equilibrium.

If we experiment further with more than two systems, we find that many systems can be brought into thermal equilibrium with each other; thermal equilibrium does not depend on the kind of object used. Put more precisely,

*if two systems are separately in thermal equilibrium with a third, then they must also be in thermal equilibrium with each other,*

# 5. WEB

Web al inicio-

- <http://classics.mit.edu/>
- <http://eo.ucar.edu/skymath/tmp2.html>

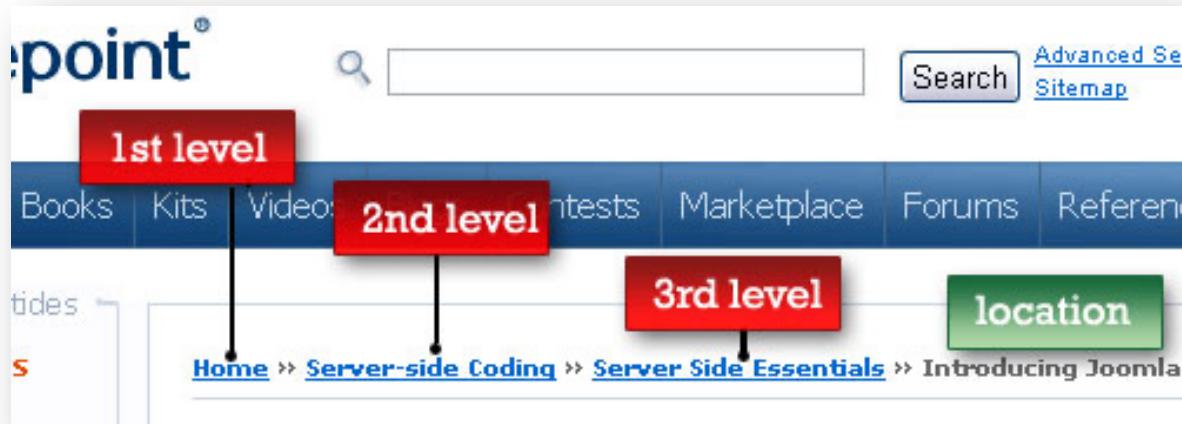
Cómo se diseña vs cómo se usa?

# 5. WEB

Breadcrumb navigation



## 5. WEB



### Breadcrumb navigation

The screenshot shows a website interface with a search bar containing 'repisa'. Below the search bar are navigation links: 'Todas las categorías', 'Destacados', 'Ideas e inspiración', and 'Hor'. A green banner at the top says 'Especial Baño' with icons for bathtub, trash can, sink, and toilet. Below the banner, the breadcrumb trail shows: Inicio > Muebles > Muebles de Oficina > Repisas, Modulares y Estantes. The main content is titled 'Estante 10 repisas Booker negro Rödler'.

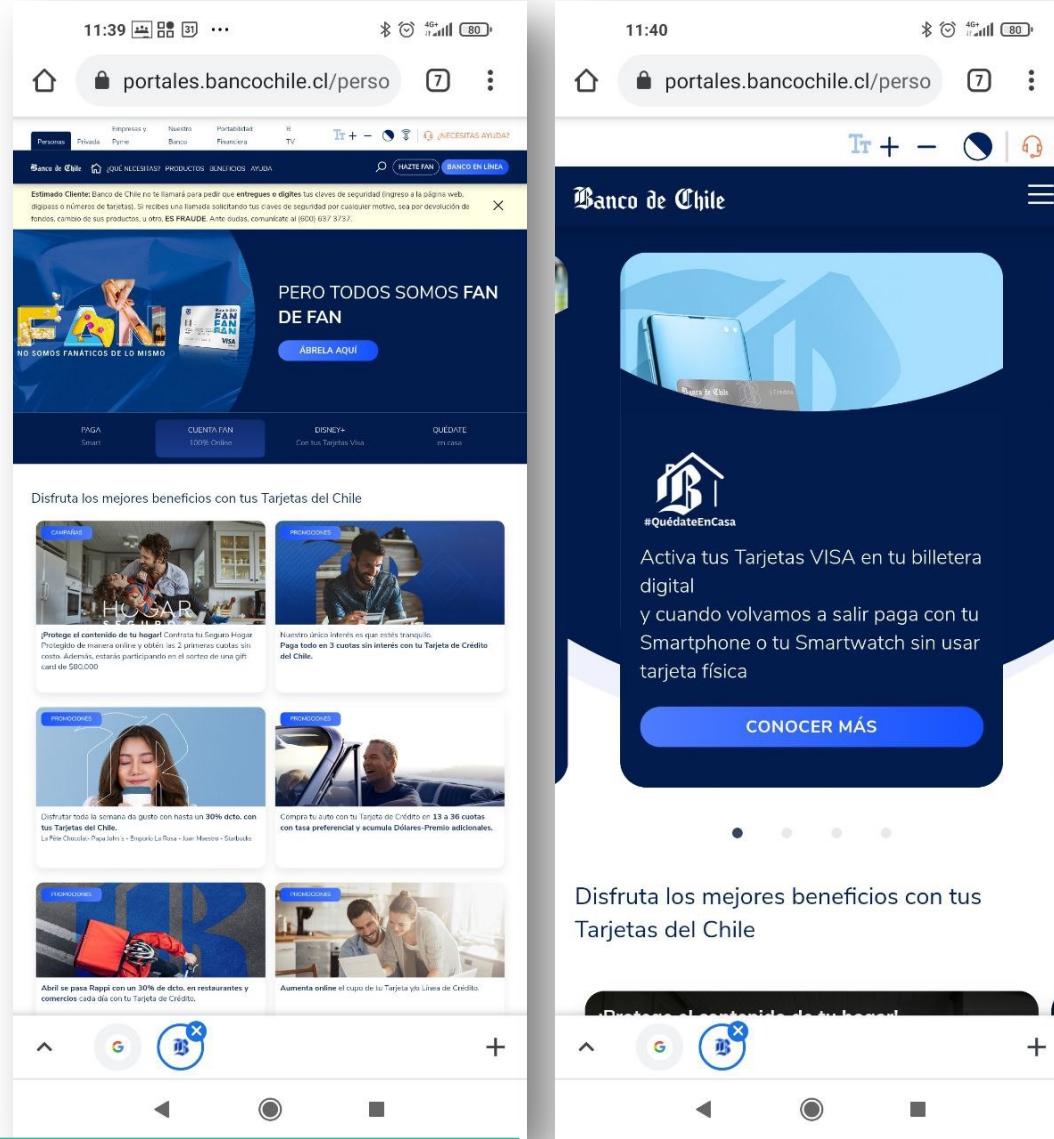
On the left, there's an 'easy cencosud' logo, a search bar with 'repisa', and an orange search button. Below the search bar are links: 'Enviar a Antofagasta 1240000', 'Libros', and another orange search button.

The main content area shows a product listing for 'Compilers: Principles, Techniques, and Tools 1st Edición' by Alfred V. Aho, Ravi Sethi, and Jeffrey D. Ullman. It has a 4.5-star rating and 101 reviews. The product image is partially visible.

A large green callout box on the right contains the text: '¿Cuando si?' and '¿Cuando no?'

# 5. WEB

Responsive



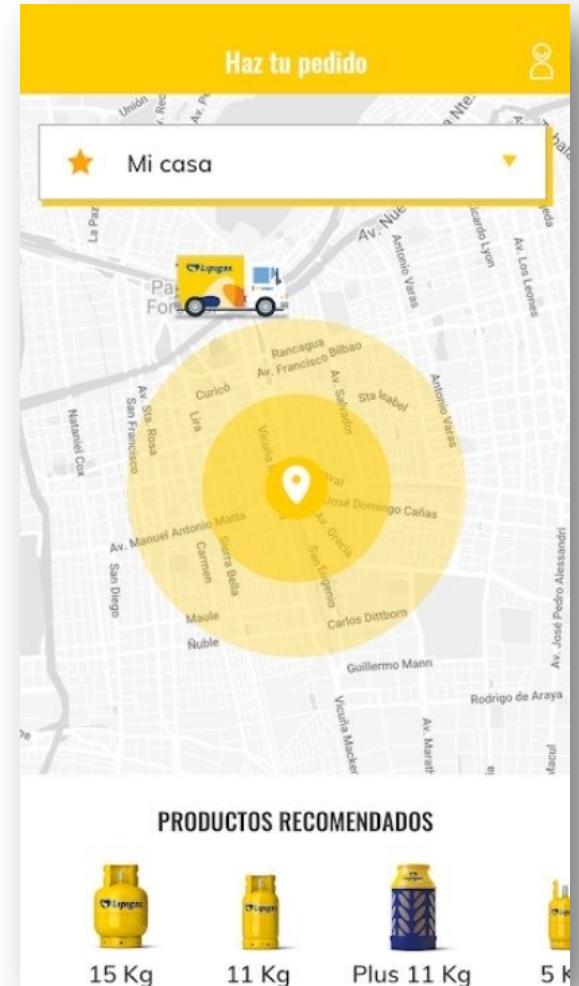
¿Qué cambia con  
como interactuamos?

# 6. MÓVIL

En promedio, las personas revisan su teléfono X veces al día

- Hay varios estudios:
- 344 <https://www.reviews.org/mobile/cell-phone-addiction/>
- 150: <https://www.slicktext.com/blog/2019/10/smartphone-addiction-statistics>
- 96: <https://www.asurion.com/press-releases/americans-check-their-phones-96-times-a-day/>

Size, portability, interaction style



# 6. MÓVIL



## 6. MÓVIL

<https://affect.media.mit.edu/projectpages/iCalm/iCalm-2-Q.html>



The **E4** measures photoplethysmography (PPG), electrodermal activity (EDA), temperature and 3-axis accelerometer data. PPG provides continuous heart rate and heart-rate variability data. Thus, this sensor measures both main branches of the autonomic nervous system: sympathetic and parasympathetic.

# 6. MÓVIL



designed by  freepik.com