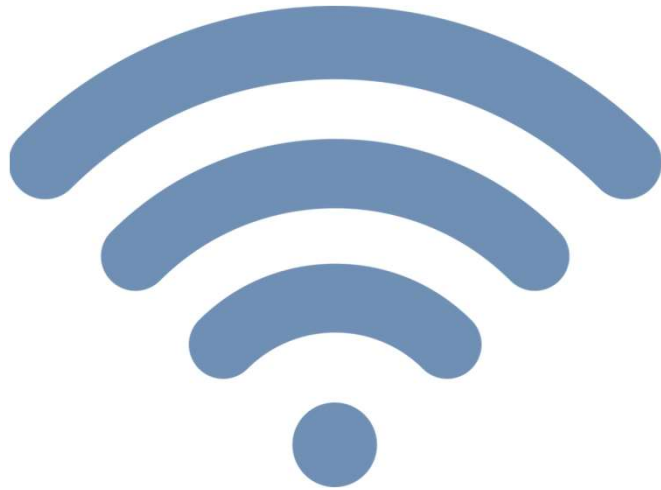# (ADVANCED) SMART EDUCATIONAL RESOURCES

Adopting mobile devices and adapting strategies
Selecting apps and web tools to enhance motivation and learning

June 8th to 12th, 2019, Faro

Mobile device's fundamentals

Network authentication

Network: *ualg-conferencias*

User: **acjit2019c**

Password: **69283625**

Contents

Mobile devices

- What are they?

- Technical features

- Operating systems

- Applications

Mobile devices

- ## What are they?

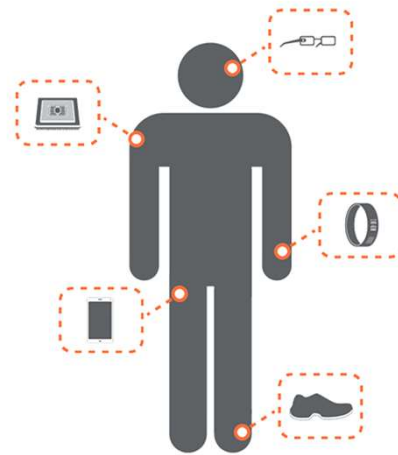Small portable or pocket computing devices that can be used on the hands.

Mobile devices

- Formats:
  - *Tablets*;
  - *Smartphones*;
  - *Wearables*;
  - Others

124 BPM
5,1 314 kcal

08:31

11:25

10:42

VECTOR EPS10

Common technical features

- Dimensions and weight;

- Screen size, resolution and technology;

- Processor (number of cores and speed);

- RAM memory;

- Internal Memory and expandability;

- Estimated battery life;

- Wireless communications;

- Peripherals and sensors;

- Operating system and version.

Wireless features

- GSM *(Global System for mobile communications)*: conversation, SMS e MMS exchange;
- 2G/3G/4G standards for Internet Access;
- *Wi-Fi*;
- *Bluetooth*;
- NFC *(Near Field Communication)*, only supplied by some manufacturers;
- Infrared (deprecated);

Peripherals and sensors

- Touch screen;

- Speakers and headphones;

- Camera (rear and front);

- Radio receiver;

- Accelerometer;

- Gyroscope;

Peripherals and sensors

- Compass;

- GPS (Global Positioning System);

- Proximity;

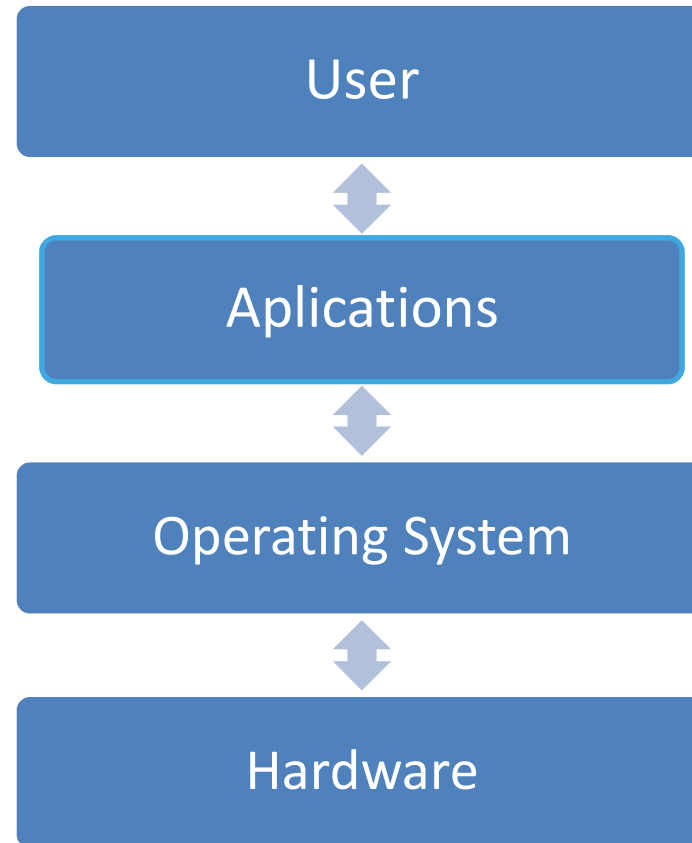- Color/light;

- Relative Humidity;

- Temperature.

Operating systems

Operating **systems**

User

Aplications

Operating System

Hardware

Operating systems

- ■ Android (Google)
- ■ iOS (Apple Machintosh)
- ■ Windows Phone
- ■ Other

0% 0%

13%

87%
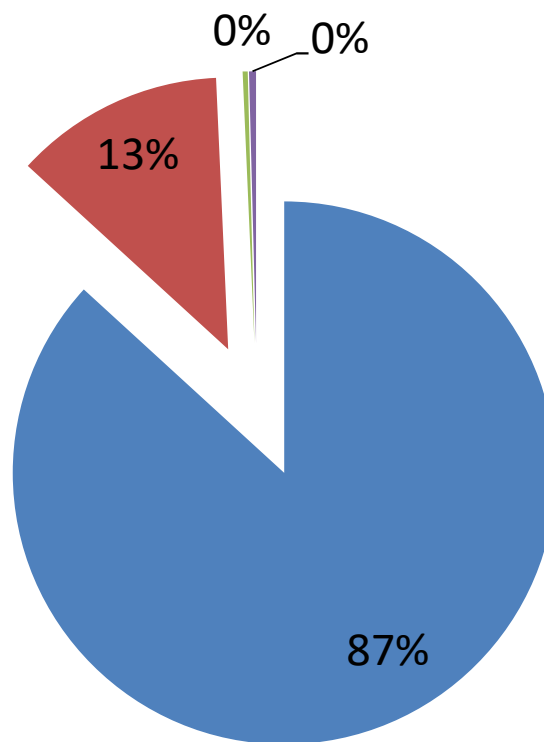
Operating systems – versions and updates

Android	IOS	Windows e Windows Phone
1.0 (no code name)	iPhone OS 1	Windows Phone 7
1.5 Cupcake	iPhone OS 2	Windows Phone 8
1.6 Donut	iPhone OS 3	Windows Phone 8.1
2.0 Eclair	iOS 4	Windows Phone 10
2.2 Froyo	iOS 5	
2.3 Gingerbread	iOS 6	Windows 8
3.0 Honeycomb	iOS 7	Windows 8.1
4.0 Ice Cream Sandwich	iOS 8	Windows 10
4.1 Jelly Bean	iOS 9	
4.4 KitKat	iOS 10	

Applications (Apps)

- Obtaining and installing applications
  - Operating System Stores:
    - Google Play (Android);
    - App store (IOS);
    - (Windows) Store.
  - Other stores (Samsung App Store, Amazon App Store, …)
- Direct file installation (.apk, .ipa, .exe)

Application Selection

- Selecting applications:

    - In-store ratings (ratings, reviews, and number of ratings);

    - Evaluation by specialized websites.

    - Other reviews …

Application Selection (Advanced)

- How to evaluate applications for teaching:
  - Relevance;
  - Customization;
  - Feedback;
  - Cognitive skills development;
  - Ease of use;
  - Involvement;
  - Sharing facilities.

Vincent-App-Rubric

Vincent_App_Checklist

http://learninginhand.com/blog/ways-to-evaluate-educational-apps.html

Native apps / Web apps

- Native applications (Operating system installed)
- Web applications
  - Platform (O.S.) independent;
  - Executed inside the web browser.

Web **applications:** an example

Individual activity:

1. Use the browser on your mobile device to access **https://answergarden.ch/954513** Enter a word that answers the question that is placed on the site and tap submit. Insert another, please;

2. Check the results on the projected image

Other Word Cloud generators

- Collaborative
  - Mentimeter
  - Polleverywhere
- Not collaborative
  - Wordcloulds;
  - Wordart;
  - Worldle;
  - Tagxedo;
  - Tagul;
  - Word it out.

Lunch **time**