

# OPERATING SYSTEMS

---

ECE 001

**Fady Sabry Kamel**

Student ID : 2166120200101101

B.N : 564

Date : June 7, 2021

GitHub-Link: <https://github.com/fady-sabry11/html-project-repo>

كلية الهندسة بشبرا | جامعة بنها

# Project brief

## operating systems

An **operating system** is the **most important software** that runs on a computer. It manages the computer's **memory** and **processes**, as well as all its **software** and **hardware**. It also allows you to **communicate** with the computer without knowing how to speak the computer's language. **Without an operating system, a computer is useless.**

So, in this project, we will be discussing the importance of operating systems. In addition, there will be an overview of the most well-known operating systems in the world for both desktop and mobile devices.

## Screenshots

### Webpages

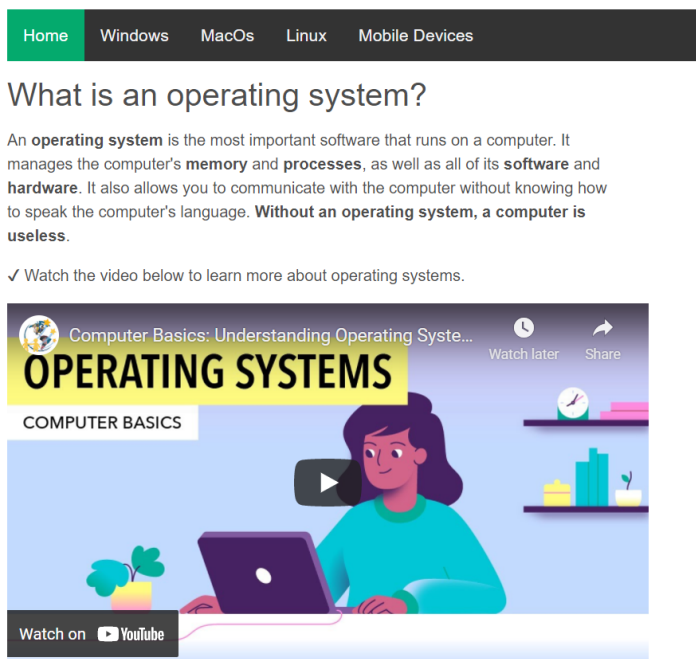


Figure 1

### Operating systems for mobile devices

The operating systems we've been talking about so far were designed to run on **desktop** and **laptop** computers. **Mobile devices** such as **phones**, **tablet computers**, and **MP3 players** are different from desktop and laptop computers, so they run operating systems that are designed specifically for mobile devices. Examples of mobile operating systems include **Apple iOS** and **Google Android**. In the screenshot below, you can see iOS running on an iPad.

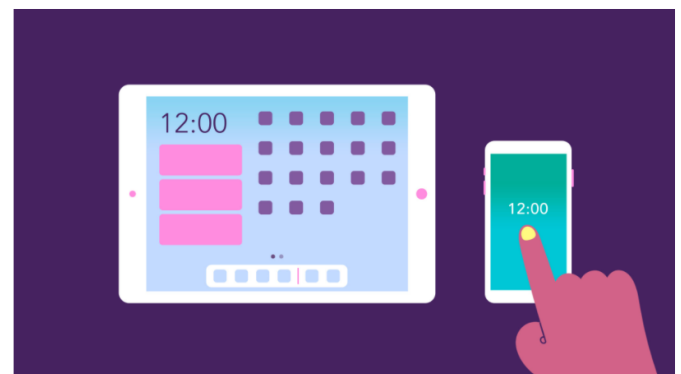


Figure 2

## Most Popular Linux Distributions

Distribution	Founder
Ubuntu	Mark Shuttleworth
Ubuntu is probably the most well-known Linux distribution. Ubuntu is based on Debian, but it has its own software repositories. Much of the software in these repositories is synced from Debian's repositories.	
Linux Mint	Clément Lefebvre
Mint is a Linux distribution built on top of Ubuntu. It uses Ubuntu's software repositories, so the same packages are available on both. Originally, Mint was an alternative distribution loved mainly because it included media codecs and proprietary software that Ubuntu didn't include by default.	
Debian	Ian Murdock
Debian is an operating system composed only of free, open-source software. The Debian project has been operating since 1993 — over 20 years ago! This widely respected project is still releasing new versions of Debian, but it's known for moving much more slowly than distributions like Ubuntu or Linux Mint. This can make it more stable and conservative, which is ideal for some systems.	

Figure 4

## What is macOS?

**macOS** is an **operating system** designed by Apple. The operating system is what allows you to use a computer. macOS comes **preloaded** on all new Apple Macintosh computers (commonly known as **Macs**).

macOS makes it possible to complete all kinds of **everyday tasks** on your computer. For example, you can use it to browse the Internet, check your email, edit digital photos, listen to music, and play games.

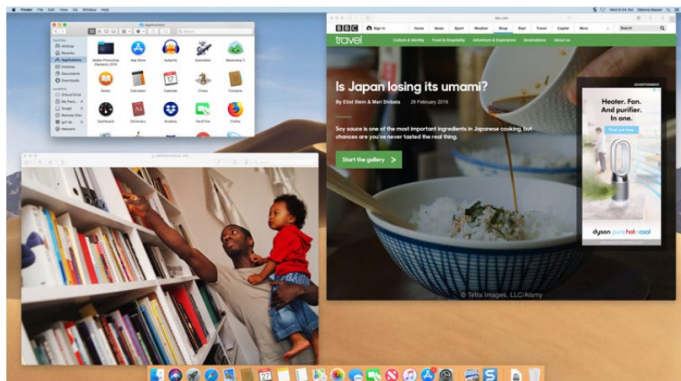


Figure 6



## What is a mobile device?

A mobile device is a general term for any type of **handheld computer**. These devices are designed to be extremely portable, and they can often fit in your hand. Some mobile devices—like **tablets**, **e-readers**, and **smartphones**—are powerful enough to do many of the same things you can do with a desktop or laptop computer.

Figure 3

## Types of operating systems

Operating systems usually come **pre-loaded** on any computer you buy. Most people use the operating system that comes with their computer, but it's possible to upgrade or even change operating systems. The three most common operating systems for personal computers are:

- Microsoft Windows
- macOS
- Linux

Modern operating systems use a **graphical user interface**, or **GUI** (pronounced **gooey**). A GUI lets you use your mouse to click **icons**, **buttons**, and **menus**, and everything is clearly displayed on the screen using a combination of **graphics** and **text**.

Figure 5

## Windows 8 vs. other versions

While most versions of Windows are relatively similar, Windows 8 works **very differently** from other versions. However, if you have Windows 8 on your computer, you should now be able to upgrade to Windows 10, which is more similar to earlier versions, including Windows 7. We recommend upgrading your computer to Windows 10 if you can.



Figure 7

## Source Code

```

8      <div class="topnav" style="overflow: hidden; background-color: #333;">
9          <a class="active" href="Index.html" style="float: left; background-color: #04AA6D;
10             color: white; text-align: center; padding: 14px 16px; text-decoration: none; font-size: 17px;">Home</a>
11          <a href="windows.html" style="float: left; color: #f2f2f2; text-align: center; padding: 14px 16px;
12             text-decoration: none; font-size: 17px;">Windows</a>
13          <a href="macos.html" style="float: left; color: #f2f2f2; text-align: center; padding: 14px 16px;
14             text-decoration: none; font-size: 17px;">MacOs</a>
15          <a href="linux.html" style="float: left; color: #f2f2f2; text-align: center; padding: 14px 16px;
16             text-decoration: none; font-size: 17px;">Linux</a>
17          <a href="mobile.html" style="float: left; color: #f2f2f2; text-align: center; padding: 14px 16px;
18             text-decoration: none; font-size: 17px;">Mobile Devices</a>
19      </div>

```

Figure 8

```

45      <h2 style="color: #4E4E4E;
46          font-weight: 400;">Types of operating systems</h2>
47      <p> Operating systems usually come <b>pre-loaded</b> on any computer you buy. Most people use <br>
48          the operating system that comes with their computer, but it's possible to upgrade or <br>
49          even change operating systems. The three most common operating systems for <br>
50          personal computers are:
51          <ul>
52              <li><b>Microsoft Windows</b></li>
53              <li><b>macOS</b></li>
54              <li><b>Linux</b></li>
55          </ul>
56      </p>

```

Figure 9

```

37       <br><br>
39
40      <p>Windows is also used in many offices because it gives you access to <b>productivity tools</b> <br>
41          such as calendars, word processors, and spreadsheets.
42      </p>
43       <br><br>
45

```

Figure 10

```

31      <p>
32          However, when his suggestions were rejected by the designers of UNIX, he thought of <br>
33          launching an OS which will be <b>receptive to changes</b> or <b>modifications suggested</b>
34          by its users</b>.
35      </p>
36
37      <iframe width="644" height="360" src="https://www.youtube.com/embed/xRX6ZI P-LA" title="YouTube video player"
38          frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture"
39          allowfullscreen></iframe>
40      <hr> <br>
41

```

Figure 11



```

98 <tr>
99   <td style=" border: 1px solid ■#dddddd; text-align: left; padding: 8px;">Debian</td>
100   <td style=" border: 1px solid ■#dddddd; text-align: left; padding: 8px;">Ian Murdock</td>
101 </tr>
102 <tr>
103   <td colspan="2" style=" border: 1px solid ■#dddddd; text-align: left; padding: 8px;">
104     <p>
105       Debian is an operating system composed only of free, open-source software. The Debian <br>
106       project has been operating since 1993 – over 20 years ago! This widely respected project <br>
107       is still releasing new versions of Debian, but it's known for moving much more slowly <br>
108       than distributions like Ubuntu or Linux Mint. This can make it more stable and conservative, <br>
109       which is ideal for some systems.
110     <br><br><br>
111   </p>
112 </td>
113 </tr>
114
115 </table>

```

Figure 12

## Citation

Brent, E. (2020, August 4). *macOS Basics: All About macOS*. GCFGlobal.org.  
<https://edu.gcfglobal.org/en/macbasics/all-about-macos/1/>.

Dean, E. (2020, March 11). *Computer Basics: Mobile Devices*. GCFGlobal.org.  
<https://edu.gcfglobal.org/en/computerbasics/mobile-devices/1/>.

Hoffman, C. (2017, July 4). *10 of the Most Popular Linux Distributions Compared*. How.  
<https://www.howtogeek.com/191207/10-of-the-most-popular-linux-distributions-compared/>.

Krishna, gohar. (2012, November 11). *Introduction to Linux Operating System (OS): What is Linux?*  
 Guru99. <https://www.guru99.com/introduction-linux.html>.

Matt, K. (2020, August 4). *Windows Basics: All About Windows*. GCFGlobal.org.  
<https://edu.gcfglobal.org/en/windowsbasics/all-about-windows/1/>.

Shane, E. (2020, August 7). *Computer Basics: Understanding Operating Systems*. GCFGlobal.org.  
<https://edu.gcfglobal.org/en/computerbasics/understanding-operating-systems/1/>.