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<center><h1>What is an operating system?</h1>

<p>An <i><b>operating system</b></i> is the <strong>most important software</strong> that runs on a computer.<br>

It manages the computer&apos;s <strong>memory</strong> and <strong>processes</strong>, as well as all of its <strong>software</strong> and <strong>hardware</strong>.<br>

It also allows you to <strong>communicate</strong> with the computer without knowing how to speak the computer&apos;s language.<br>

<strong>Without an operating system, a computer is useless</strong>.<br>

Watch the video below to learn more about operating systems.<br>

<a href="https://youtu.be/fkGCLIQx1MI">the vedio </a><br>

Looking for the old version of this video? You can still view it <a href="https://www.youtube.com/watch?v=pTdSs8kQqSA">here </a>

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<center><h1>The operating system's job</h1>

<p>Your computer's<i><b> operating system (OS)</b></i> manages all of the<strong> software and<strong> hardware on the computer.<br>

Most of the time, there are several different computer programs running at the same time,<br>

and they all need to access your computer's <strong>central processing unit<strong> (CPU),<strong> memory, and <strong>storage.<br>

The operating system coordinates all of this to make sure each program gets what it needs.<br></p>

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<center><h1>Types of operating systems</h1>

<p>Operating systems usually come <strong>pre-loaded</strong> on any computer you buy.<br>

Most people use the operating system that comes with their computer, but it&apos;s possible to upgrade or even change operating systems.<br>

The three most common operating systems for personal computers are <strong>Microsoft Windows</strong>,<strong> macOS</strong>, and <strong>Linux</strong>.</p>

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<center><p>Modern operating systems use a <strong>graphical user interface</strong>, or <strong>GUI</strong> (pronounced <strong>gooey</strong>).<br>

A GUI lets you use your mouse to click <strong>icons</strong>, <strong>buttons</strong>, and <strong>menus</strong>, and everything is clearly displayed <br>

on the screen using a combination of <strong>graphics</strong> and <strong>text</strong>.</p>

<img src="understanding\_os\_gui\_cropped\_01404.jpg" width="500" height="333"></center><br><br><br>

<h1><strong>Comparison of operating systems</strong></h1>

<table style="width:100%">

<tr>

<th>Name</th>

<th>Creator</th>

<th>Predecessor </th>

<th>Cost, availability </th>

<th>Target system type</th>

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<th>Windows (classic 9x family) </th>

<th>Microsoft</th>

<th>MS-DOS, Windows NT 3.5 </th>

<th>Discontinued</th>

<th>Personal computer, media center</th>

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<th>Android</th>

<th>Android, Inc., Google</th>

<th>None </th>

<th>Free </th>

<th>TSmartphone, tablet computer, education</th>

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<th>iOS</th>

<th>Apple Inc. </th>

<th>macOS </th>

<th>Bundled with hardware and free updates given to most existing users, subject to hardware requirements </th>

<th>Smartphone, music player, tablet computer</th>

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<th>macOS</th>

<th>Apple Inc. </th>

<th>NeXTSTEP, BSD </th>

<th>Bundled with hardware; Free updates and upgrades via Mac App Store for users of Mac OS X 10.6 or later </th>

<th>Workstation, personal computer, embedded</th>

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