

OPERATING SYSTEMS & UTILITY PROGRAMS

System Software

- **System software** consists of the programs that control the operations of the computer and its devices.
- Functions that system software performs include:
 - Starting up the computer.
 - Opening, executing, and running applications.
 - Storing, retrieving, and copying files.
 - Formatting disks.
 - Reducing file sizes.
 - Backing up the contents of a hard disk.
 - Serves as the interface between the user, the application software, and the computer's hardware.
- The two types of system software are **operating systems** and **utility programs**.

Operating Systems

- An **operating system (OS)** is a set of programs containing instructions that coordinate all of the activities among computer hardware resources.
 - A computer cannot function without an operating system.
- An operation system also contains instructions that allow a user to run application software.
 - Application software is written to run with particular operating systems.
 - The operating system is sometimes called the **software platform**.
 - **Cross-platform applications** run identically on more than one operating system.
- The **kernel**, or core, of an operating system is responsible for managing memory, files, and devices; maintaining the computer's clock; starting applications; and assigning the computer's resources.
 - The kernel and other frequently used instructions in the operating system are copied from the storage (e.g., hard disk) to the computer's memory each time when the computer is started up.
 - Any program or command that remains in memory while the computer is running (e.g., the operating system kernel) is called **memory-resident**.

Quiz Yourself Ch4 Operating Systems And Utility Programs Answers

Marc H. Meyer, Frederick G. Crane



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web the graph in figure 8 14 shows the absorption spectra for chlorophyll a chlorophyll b and a type of carotenoid pigment called β carotene which absorbs blue and green light notice how each pigment has a distinct set of peaks and troughs revealing a highly specific pattern of absorption

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web sep 9 2023 chlorophyll is a pigment present within plants chlorophyll is the key pigment produced by the chloroplasts within the plant cell which initiates photosynthesis the absorption spectrum of chlorophyll is in the visible range from 400 to 700nm this begins with the 400nm meter region where the light is blue to the 700nm region where

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web arrange the colors in the absorption spectrum of chlorophyll in order of their visibility put the most visible color first green yellow orange red violet blue 9 12 below is a bar graph of the percentage of light energy reflected by chlorophyll it was derived from the chlorophyll absorption spectrum

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web of blue and red light of the split spectrum a first action spectrum of photosynthesis was thus described it resembles roughly the absorption spectra of chlorophyll a and b discussed in section 13 4 by the middle of the nineteenth century the key features of plant photosynthesis were known namely that plants could use light energy

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web relate a photon s energy to its wavelength the energy content of a photon is inversely proportional to the wavelength of light as energy of the photon increases the wavelength decreases and vice versa relate the chlorophyll absorption spectra to the photosynthetic action spectrum

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