

I'm not a robot



Assistive technologies examples

Assistive technology refers to devices or systems that aid individuals with disabilities in performing tasks that might otherwise be difficult or impossible. It ranges from low-tech solutions like magnifying glasses for reading to high-tech tools like voice recognition software. With the current progress in generative AI technologies from companies like OpenAI, assistive technologies are rapidly advancing, with new disruptive technologies hitting the market weekly. Assistive technology plays a crucial role in promoting inclusivity, as it ensures everyone, regardless of their physical or cognitive abilities, can participate in various life areas. Hearing aids are designed to help improve the hearing of people with hearing loss or other hearing-related difficulties. These compact devices amplify sound waves to make them audible for people with hearing loss. The technology involved processes the environmental sounds and compensates for impaired hearing. Therefore, hearing aids prove instrumental in helping individuals with hearing impairments engage in regular communication and live richer lives. Case Study: The Invention of Cochlear Implants Cochlear implants, invented by Graeme Clark, an Australian otolaryngologist, are advanced assistive technologies that transform lives. These devices convert sound waves into electrical signals, which are then sent to the auditory nerve, offering the ability to perceive sound to those with profound hearing loss. Since their establishment in the 1970s, cochlear implants have empowered more than 300,000 individuals worldwide to communicate and interact more effectively. Today, these implants are making significant contributions towards alleviating the impacts of profound hearing loss on people's lives. Screen readers are software applications that convert text into speech. They provide a crucial interface to computers for individuals who are visually impaired or blind, enabling them to access digital content. The screen reader scans the text on the screen and then speaks it out loud, thereby assisting the user in understanding the content. This assists the visually impaired in navigating and interacting with digital devices and platforms. Wheelchairs, in both manual and electronic forms, are fundamental assistive devices for individuals with mobility disabilities. They are designed to facilitate movement for those who find walking impossible or strenuous due to disability or health conditions. Wheelchairs vary widely, designed to suit a range of users' needs, body types, and lifestyle requirements. They exist to promote the independence, confidence, and well-being of those with mobility challenges, thereby positively transforming their quality of life. Case Study: The Invention of Self-Propelling Wheelchairs The first self-propelling chair on wheels was invented by an watchmaker named Stephan Farfler in Germany around 1655. Farfler built a three-wheeled chair that he could propel without assistance. The evolution of the wheelchair from its primitive form to the sophisticated, lightweight, and customizable models of today has greatly enhanced mobility and independence for persons with disabilities. With wheelchairs, individuals who have mobility impairments can lead more active, fulfilling lives - such immense mobility aids help them engage in daily activities, work, and leisure that would have otherwise been challenging. Speech-to-text software converts spoken words into written text. It benefits individuals with learning disabilities, dyslexia, or physical impairments that make typing difficult. The software interprets the spoken language by recognizing spoken patterns, which it then transcribes into text. This innovative technology helps deliver an efficient, hands-free method of writing and communicating. A white cane is a fundamental livelihood tool for the visually impaired. It empowers users to navigate their environment independently by detecting obstacles in their path. The white color effectively signals to others that the person is visually impaired, enhancing their safety by promoting awareness among nearby people or vehicles. Through the simple yet efficient technology of the white cane, visually impaired individuals can traverse their surroundings with enhanced confidence and freedom. See Also: A List of Amazing Technological Innovations Prosthetic limbs replace a missing arm, leg, or other body part. They aid individuals in regaining mobility and functionality after the loss of a natural limb, often due to disease or injury. Modern advancements in prosthetics have resulted in limbs that not only replicate human appearance but also function as well, some even responding to muscle movements. These revolutionizing developments have equipped amputees with unprecedented abilities to pursue a wide range of physical activities. Case Study: Futuristic Prosthetic Limbs Companies like Open Bionics are making significant strides in the world of prosthetic limbs. They've developed advanced, 3D-printed bionic limbs known as "Hero Arms" that can offer realistic hand movement. The prosthetics, equipped with multiple grip patterns and sensor-driven controls, offer functionality that mimics a naturally occurring limb, including the ability to point and pinch. Users have hailed this innovation as transformative, empowering them to gain newfound independence and unimpeded participation in daily activities. EyeGaze Edge is a wearable technology controlled by eye movement. It allows individuals with severe physical disabilities, such as locked-in syndrome or ALS, to communicate effectively and perform tasks on a computer. The system works by tracking eye movement, allowing users to select letters or icons on a screen by merely looking at them merely looking at them. This technology effectively transforms the person's eye into a mouse cursor, empowering users to work with computer applications, surf the web, or even write and send emails. EyeGaze Edge brings about transformative change by affording a renewed level of independence and communication possibilities to individuals with severe physical restrictions. Braille e-books are electronic versions of print books transcribed into Braille for people with visual impairments. They work by presenting Braille characters electronically on a refreshable Braille display, allowing users to "read" through touch. With an extensive library of books available worldwide in digital Braille, visually impaired individuals can enjoy a wide range of literary works. Therefore, Braille e-books not only promote the literary interest of the visually impaired but also facilitate their access to, and interaction with, valuable information and education. See Also: A List of Communication Technologies AAC devices help people with speech or language issues communicate. These devices can range from simple picture boards to sophisticated computer programs that generate speech. Users interact with these devices by selecting letters or images representing specific words or phrases, which the device then translates into audible speech. This technological aid significantly enhances their communication capability, aiding them in more effectively expressing their thoughts, needs, and desires. Smart home devices like voice-activated lights, thermostats, and door locks provide valuable assistance to individuals with mobility and physical disabilities. Users can control these devices using voice commands or smartphone apps, eliminating the need for physical interaction with the device. Consequently, these devices contribute significantly towards enabling individuals with physical disabilities to lead an independent, comfortable, and safe life within their homes. Reading glasses Screen magnification software (e.g., ZoomText) Speech recognition software (e.g., Dragon NaturallySpeaking) Closed captioning systems Hearing aids Augmentative and alternative communication (AAC) devices Tactile graphics Video relay services (VRS) Text-to-speech software (e.g., Kurzweil 3000) Eye-tracking systems Switch access devices Slip-and-puff systems Voice output communication aids (VOCA) Refreshable Braille readers Assistive listening devices (e.g., FM systems) Teletypewriter (TTY) devices Large print keyboards Adaptive mice (e.g., trackball, joystick) Environmental control units (ECU) Wheelchair ramp controls Voice-activated home assistants (e.g., Amazon Echo, Google Home) Wearable mobility devices (e.g., exoskeletons) Smart glasses for visual impairment (e.g., OrCam MyEye) Educational environments greatly benefit from the integration of assistive technology. Assistive technologies promote inclusivity in classrooms by helping students to succeed in their learning. They can ensure that learning materials are accessible in a format that meets students' needs in student-centered classrooms. Educational environments greatly benefit from the integration of assistive technology. Assistive technologies are an accommodation that allows students to work using their strengths to access the curriculum. For example, a text-to-speech reader allows a child who struggles with reading to access a textbook, learning and using content rather than struggling to read the words on the page. How do students get to use assistive technology? Children who have disabilities and have a 504 plan or IEP (Individualized Education Plan) may require assistive technology to access the curriculum. To that end, they may have a device that they use throughout the day or during parts of the day. Assistive technology is an accommodation—it's a way to help a student access the curriculum, not a modification or specially designed instruction. Aside from students who have assistive technology as a part of their IEP, you can incorporate assistive technology into instruction by teaching students how to use technology that is available through programs that they're using every day. A speech-to-text feature may support students who want to talk through an essay before they write it. Or students who are learning to type might benefit from a modified keyboard. What are some assistive technology examples? Assistive technology is available to support all kinds of learning, across the curriculum, from communication to organization to academics. Augmentative and Assistive Communication (AAC) Devices Augmentative and alternative communication (AAC) is a form of communication that can be used instead of or along with talking. A student who has trouble with verbal communication may be provided with an AAC device. For example, a child with autism who does not use spoken words may communicate their wants and needs through their personalized AAC. While some AAC (sign language, writing notes) is not tech-based, the most well-known AAC are tablets or boards that provide pictures for students to point to. The pictures should be individualized for the child so they can use the pictures that mean the most to them. A child may have their preferred activities, favorite foods, and daily schedule on their AAC device to help them communicate most effectively. The most important thing to know when working with a child who has an AAC device is that if you take the device away, even for a little bit, you are taking the child's voice away. Typically a speech therapist will help program and teach a child how to use an AAC device. They will also train teachers on how the student uses the device in school. Learn more: AAC devices at Lingraphica Assistive Technology Examples for Reading Assistive technology for reading makes text accessible by reading it aloud. Some assistive technology examples for reading provide even more support than the old standby, the audiobook. Text-to-speech (TTS) software is designed to help students who have difficulty reading standard print. Students with dyslexia, blindness, or other learning disabilities or physical impairments that impact their ability to read could benefit from TTS. TTS software scans and reads words aloud to the student. Read Aloud at Chrome Web Store Speechify Speechify is a text-to-speech software that translates text into audio and can be used for textbooks, PDFs, and other text. It can be used with the Google Chrome browser, Macs, iPhones, and Amazon Kindle books, and more. There are 40+ languages available, as well as a variety of different voices. 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