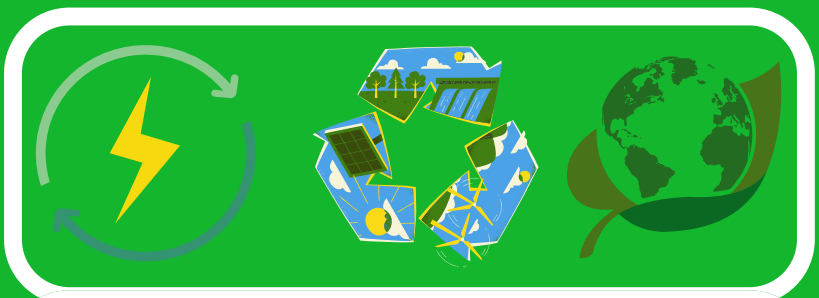
?



Sustainability Beginner

What happens when you run too many apps on your computer at the same time?

A Your computer only consumes energy for the program you are currently using

B The computer uses more energy and slows down

C It doesn’t affect energy use

If you write a program that keeps running in the background, what will happen?

A. It only uses energy when you look at it

B. It will keep using energy even if you're not using it

C. It shuts down automatically to save power

When writing a program, why should you avoid making it do unnecessary calculations?

A. It saves energy by making the program more efficient

B. It immediately makes the code more readable

C. It doesn't matter because computers have unlimited power

What is a simple way to make a program use less energy?

A. Include additional features to increase program functionality

B. Write only the code you need and remove redundant code

C. Use more complex logic to improve functionality

Why should you close your code editor when you're not using it?

A. It makes the screen look less cluttered

B. It doesn't make a difference

C. It saves energy and frees up computer memory

If a program constantly checks for new updates every second, what effect does that have?

A. It makes the program work better

B. It doesn't affect energy use

C. It wastes energy by using too much internet and CPU power

Is it a good practice to save data every second, even when nothing has changed?

A Yes, It makes the computer run faster

B Yes, it saves energy because the program is working hard

C No, it wastes energy and storage space

How does using fewer images in a program help save energy?

A. It makes the program run slower, using more power

B. It doesn’t change energy use

C. It makes the program load faster and use less memory

What is the benefit of writing simple code instead of very long and complex code?

A There is no difference in energy use

B Longer code always works better

C Simple code runs faster and uses less energy

What is a negative consequence of checking for updates often?

A It makes updates happen slower

B It doesn’t matter how often updates are checked

C It increases internet use and wastes energy

If a mobile app runs in the background all the time, what does it do?

A It drains the battery faster

B It makes the app run better while it can process data all the time

C It doesn't use any energy

How can you make a website load faster and use less energy?

A Use fewer large images and animations

B Add more code and effects

C Check every second for updates

What happens if you leave a game running on your computer while you are not playing?

A It still uses energy

B It automatically stops using power

C It makes the game run better

Why does storing too much unnecessary data in a program waste energy?

A More data means more processing power is needed

B It helps save energy by reducing data processing time

C Storaging data does not consume any energy

How does writing clear and organized code help save energy?

A It helps computers process the code faster

B It only helps programmers read the code

C It doesn’t affect energy use

What happens when you use a lot of animations in a mobile app?

A It drains the battery faster

B It makes the phone battery last longer

C It has no effect on energy use

How does using the right data structure in a program help save energy?

A. It makes the program use less memory and run faster

B. Complex algorithm make the code harder to understand and maintain

C. It has no effect on how the program runs

What happens if a website keeps refreshing itself every second?

A It uses more energy and slows down devices

B It improves the performance of the website

C Nothing significant happens

Why should you close tabs in your web browser when you're not using them?

A. It reduces memory and CPU usage, saving energy

B. It makes your screen look cleaner but doesn’t save energy

C. It has no effect on power consumption

How can turning off auto-play videos on your websites help save energy?

A It has no effect on energy usage

B It stops unnecessary video processing and saves power

C It makes the website load slower

Why is it a good idea to use fewer background processes in a program?

A. It makes the program use less energy but run slower

B. It reduces CPU usage and saves battery life

C. Background processes do not affect battery life

Why should you avoid using unnecessary libraries in your code?

A. It makes the program look more professional

B. It keeps the program lightweight, reducing memory usage and energy consumption

C. It has no impact on energy use

Why does using too many sound effects in an app use more energy?

A Sound has no effect on energy use

B Playing sounds requires processing power

C More sounds make the app run faster

How can you make a game more energy-efficient?

A. Keep the game running constantly in the background to reduce startup time

B. Reduce unnecessary animations and effects

C. Increase the game's background processes for richer experience

How does compressing images help software be more sustainable?

A. It makes images blurry, which reduces energy usage

B. Smaller images load faster and use less energy

C. It has no effect on energy consumption

Why does reducing the number of times a program writes to disk save energy?

A. More disk writes always make programs run faster

B. Writing to disk takes power, so doing it less saves energy

C. Disk operations don’t use any power, only calculations

What happens if a mobile app constantly sends notifications?

A It makes the app faster

B It drains battery faster

C It doesn’t use any energy

What is the effect of reducing font styles on a webpage?

A More fonts always make websites run faster

B It makes the page load faster and use less processing power

C It has no effect on webpage speed or energy usage

What is the consequence of caching?

A It significantly slows down the software

B It saves data temporarily so it doesn't have to be loaded repeatedly

C The program uses more energy

Why is it better to use a single efficient function instead of repeating code?

A. It makes no difference in performance

B. More code always runs better

C. It reduces processing power needed, saving energy

Why does a dark mode option in apps and websites save energy on some screens?

A. Dark mode only uses less power on OLED and AMOLED screens

B. Dark mode doesn’t affect power usage

C. Dark mode saves power on all screens

What happens if a program keeps checking for internet connection every second?

A It doesn’t use any extra energy

B It helps the internet work faster

C It drains battery and increases power usage

Why is it important to keep your code efficient when working on large software projects?

A. Efficient code is easier to maintain, but has not other benefit

B. Efficiency doesn't matter as long as the program works

C. Efficient code uses fewer system resources, which helps save energy

How does reducing the number of colors in an image help with energy efficiency?

A. Less colors mean less pixels are used on your screen, which reduces energy consumption

B. Image colors don’t affect energy usage

C. It makes the image file smaller, reducing processing and storage needs

What happens when a mobile app is poorly optimized?

A The phone will be colder and slower, which reduces energy consumption

B It doesn’t affect battery life

C It drains battery faster

How does loading only the necessary parts of a webpage (lazy loading) save energy?

A. It prevents unnecessary data from loading, reducing processing power needed

B. It makes the website slower, and slower webpages use less energy

C. It has no effect on energy use

Why does turning off automatic background syncing save battery life?

A. It prevents unnecessary data transfers that consume power

B. You won't get any updates from any app, which means you use the device less

C. Syncing doesn't use any power

Why should you avoid using very large files in software?

A. Large files take more time and energy to load

B. File size has no effect on energy use

C. You shouldn’t worry about this, computers are fast enough that you won’t notice any significant downsides

What effect does reducing screen refresh rate have on battery life?

A. A lower refresh rate reduces energy use

B. A higher refresh rate always saves energy

C. Refresh rate has no effect on battery life

How does reducing animation effects in a user interface help with sustainability?

A. It makes the software run slower, which automatically saves energy

B. It lowers CPU and GPU usage, saving energy

C. Animations don’t use any power

What happens if a software program loads everything at once instead of when needed?

A. It makes the program more efficient and faster

B. It uses more memory and CPU, consuming more energy

C. It has no effect on energy consumption

Why is it important to optimize database queries in software?

A. Complex queries use all available resources, making it more efficient

B. Efficient queries use less computing power and energy

C. Databases don’t affect energy usage

How does reducing background notifications help mobile battery life?

A More notifications help the battery last longer

B Fewer notifications mean less CPU and network usage

C Notifications don’t use any energy

What is a good practice when making a website?

A. Include a large number of high-resolution images and scripts to enhance the user experience

B. Use efficient code and minimize resource-heavy elements

C. Make the website check for updates every second to keep the content fresh

How does compressing files in software help?

A. Compression does not have any significant advantage

B. Compressed files are always harder to hack

C. Smaller files require less storage and processing power

Why does running too many browser extensions increase energy use?

A. More extensions always make the browser more efficient, reducing energy

B. Extensions don’t affect energy use

C. More extensions mean more background tasks using CPU power

How does reducing the frequency of software updates help sustainability?

A. More updates always save energy, while software updates always improve the energy efficiency

B. Updates don’t affect energy use

C. Fewer updates mean less data usage and processing power needed

Why does limiting the number of times a mobile app accesses GPS help save battery?

A GPS uses a lot of power, so using it less extends battery life

B GPS doesn’t affect battery life

C Your phone rarely uses GPS, so it doesn’t consume a lot of energy

How does reducing cloud storage usage help sustainability?

A. Less data storage reduces energy used by data centers

B. Cloud storage doesn't use any power

C. More cloud storage always makes files load faster, and a faster program uses less energy

Why should software developers focus on energy efficiency?

A. It helps reduce power consumption and environmental impact

B. It makes the software slower but more powerful

C. Energy efficiency doesn't matter in software, only speed!!!