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| **How to Build a Low-tech Website** |
| **Part 1: Design** Firstly, Frontend components—JavaScript, images, CSS/ HTML, and other assets, plus page rendering task takes between 76 to 92% of total page load time.  So, find out which design elements and features can be sacrificed and which are absolutely necessary for the site's purposes. What kind of changes in user experience can question our relationship to the internet, while still being functional?  **Logo** USE simple typographic move instead of a logo:  **Default typeface:** Do not declare a font-family at all. This not only avoids having to load more assets, but also reiterates the role of the browser in website access.  **Image:** Don’t use image unless if its add good value and needed. And if you have to use, have an optimized version. Instead of using full-color high-resolution images, we chose to convert all images to black and white, with 4 levels of gray in-between via a custom [dithering plugin](https://homebrewserver.club/low-tech-website-howto.html#image-compression)  Another technique to minimize server requests is the use of [image sprites](https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Images/Implementing_image_sprites_in_CSS), which combines multiple small images into one to minimize HTTP requests. Storage-wise, six image files (150 x 150 each) totalled 9KB, whereas the combined image (150 x 900) is a 6KB file that only loads once.  **Plugins:** Avoid unnecessary plugins that add bloat and choose plugins that minimise server load and don’t add unnecessary weight on the front end**.**  **Use less JavaScript** JS impacts website efficiency in two ways: by adding file weight to the web page and by increasing the amount of processing required by the users device. The second of these is something that applies to JS much more than to other types of files.  Look for ways to achieve front end interactions, functionality and animations using more efficient technologies like CSS, or at least use JS efficiently.  **Block bots** Blocking bots could reduce energy consumption. Bots often use up 50% of resources such as processing and bandwidth.  **Dark Mode** Reducing white space and embracing dark mode. Dark websites were one of the first techniques popularized for saving energy. |