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Sandbox mr doob

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You are logged on with a different tab or window. To update the session, reload it. You have logged out of another tab or window. To update the session, reload it. Phaser is often used as a 2D game engine for html5 desktop and mobile games. However, with the help .js and Phaser 3D library, you can make the ... Read more Egretia is an emerging HTML5 game development platform that is powered by blockchain. Blockchain technology is like a digital ledger in which finances or transactions with value ... Read more Phaser 3.4 has just been launched, so new and better features for HTML5 game development. This updated version now supports Game Object containers. Although it is still in beta ... Read more We have detected that JavaScript is disabled in this browser. Enable JavaScript, or switch to a supported browser to continue twitter.com your browser. You can see a list of supported browsers in Help. Help Center With the growth of more advanced 3D graphics came the introduction of graphics pipelines, one of the most popular is OpenGL. This allows you to create complex 3D worlds on almost any device, even in the browser using an OpenGL version: WebGL. One of the most interesting parts of using 3D is pixel blinds. Pixel shaders are programs that the color of each pixel in the image or animation. OpenGL has its own shading language: GLSL (OpenGL Shading Language). A GLSL GLSL overwhelming, and there's not much really basic to learn about GLSL out there, this article will help you understand some of the basic concepts of this wonderful language. In each example you see the interactive, you can play the code and get everything together on the run, have fun! Numbers GLSL handles whole numbers and hovers very differently. Mixing the two or forgetting to add a dot to a number will get you a lot of late night bug hunting nights. GLSL usually interprets values as fractional amounts, so in most cases, type 1.0 instead of 1 Precision GLSL uses a state attribute precision to determine how accurate the GPU uses to calculate floats. You can choose between highp, mediump, and lowp. Most systems support mediump, while highp can cause performance complications. A good rule of thumb: - use highp for vertices positions, - use mediump texture coordinates, - use lowp for colors. Colors Let's start with the creation of a solid shade. The combination of colors is red, green, blue and alpha. Each value has a scale between 0.0 and 1.0. Gradients: You can create a simple gradient. The global resolution variable is used in gl_FragCoord to calculate the current pixel position calculated by the GPU. This value is used for mapping between 0.0 and 1.0, mapped with the full resolution of the shading (resolution.x = width, resolution.y = height). Interaction variables GLSL probably has global variables that already have an underlying function/value assigned to them. Example gl_FragColor and gl_Position. The list of built-in variables can be found on the official (GLSL). To have more direct interaction, you have to assign interactive values to an intermediate language like javascript. For example, I have assigned the variable time to a simple count value in my main OpenGL (or WebGL) program like this: gl.uniform1f(currentProgram.uniformsCache['time'], parameters.time / 1000); So I can achieve dynamic value by delivering javascript to my shaded declaring that it exists at the top and using troughs from other shader programs. Another example of the mouse in X and Y positions, it also passed on the main program like this: gl.uniform2f(currentProgram.uniformsCache['mouse'], parameters.mouseX, parameters.mouseY); You can then play with them and create cool interactive experiments like this: This should get you started to get cool things from GLSL! If you have any questions/comments or just want to show me what you've done, poke me on Twitter! Twitter!

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