



Red yellow and blue are

A typical sign that you're talking about might look like this: You see these signs on any building that contains hazardous chemicals. The sign is to give firefighters some sort of advanced notice on what they are getting themselves into when they arrive at the scene of a fire. When there is a house fire, firefighters have a pretty good idea of what they are in for, but if there is a fire at a warehouse in an industrial park, it is very hard to know what chemicals might be stored there. The NFPA panel is a clear indication of what sort of dangers might lie inside. The panel has four areas: Red - Fire hazardBlue - Health hazardYellow - ReactivityWhite - Specific hazardThe numbers in the first three areas range from 0 to 4, with 0 signifying a severe hazard. For example, in the Reactivity area: 0 = Stable1 = Unstable if heated2 = Violent chemical3 = Shock or heat may detonate4 = May detonateIn the Fire hazard area. the numbers indicate the flash point: 0 = Will not burn 1 = Above 200 degrees F (38 C) 2 = Below 200 degrees F (38 C) 4 = Below 73 degrees F (23)Concrete is an example of a class 0 fire hazard. Paper and wood are class 1. In the Health hazard area: 0 = No hazard 1 = Slightly hazardous 2 = Hazardous 3 = Extremely hazardous4 = DeadlyIn the Specific hazard area, you will see things like:OXY - OxidizerACIDALK - AlkaliCOR - CorrosiveYou may also see a "W" with a bar through it (meaning "use no water"), or the radiation hazard symbol for radioactive materials. Now you can drive around your neighborhood and get a glimpse into what is stored in all of the buildings! These links will help you learn more: Originally Published: Apr 1, 2000 Go ahead and ask Google — the knower of all things — to name the primary colors. You'll get a straightforward answer that likely aligns with everything you learned as an elementary school coloring book expert. The primary colors are red, yellow and blue. But as with most seemingly simple concepts, the answer is actually a whole lot more complex. And while Google isn't exactly lying to you, it doesn't exactly tell the whole story, either. What Are Primary Colors? Here's the deal about primary colors: The players depend on the game. In other words, if you're talking about painting, then yes: Red, yellow and blue are your primary colors. If you're talking about physics and light, though, your primary colors are red, green and blue. So, what gives? The reason for the confusing contradiction is that there are two different colors are red, green and blue. So, what gives? color systems. Stephen Westland, Professor of Colour Science at the University of Leeds in England breaks things down into simple terms (before getting into the confusing complexities), in an email. "We see because light enters our eyes," he says. "Light enters our eyes," he says." This leads to two types of colour mixing, additive and subtractive." [We have retained the British spelling of the word "colour" here.]"Both systems are accomplishing one task," says Mark Fairchild, professor and director of the Program of Color Science/Munsell Co modulate the responses of the three types of cone photoreceptors in our eyes. Those are roughly sensitive to red, green and blue light that we see and therefore almost directly map to the visual responses. The subtractive primaries also modulate red, green and blue light, but a little less directly."Let's get into those distinctions — but fair warning: everything you know about the additive system first. When he was 23 years old, Isaac Newton made a revolutionary discovery: By using prisms and mirrors, he could combine the red, green and blue (RGB) regions of a reflected rainbow to create white light. Newton deemed those three colors are those which make more light when they are mixed together," says Richard Raiselis, Associate Professor of Art at Boston University School of Visual Arts. "A simple way to think about additive light is to imagine three flashlight circles is brighter than either of the circles, and the third flashlight circle intersection will be brighter still. With each mix, we add lightness, therefore we call this kind of mixture additive light." If you imagine each flashlight is fitted with a transparent color filter — one red, one green and one blue — Raiselis says that's the key to understanding additive color mixing."When the blue flashlight circle intersects the green one, there is a lighter blue-green shape," he says. "It's cyan The red and blue mix is lighter too, a beautiful magenta. And the red and green also make a lighter color - and a surprise to nearly everyone who sees it - yellow. When mixed together, red, green and blue lights make white light. Your computer screen and TV work this way. And if you've been onstage, you might have looked up behind the curtain to see the red, green and blue lights that serve as theatre's additive color mixing is where we have a device such as a TV or a smartphone screen that emits light," Westland says. "In most devices, three different colors of light (primaries) are emitted and as they are used they are added together." But the range — or gamut — of colors that can be produced from three additive primaries are. Most sources will tell you red, green and blue are the additive primaries, as Newton originally proposed, but Westland says it's a lot more complicated than that."It is often mistakenly written that RGB are optimal because the visual system has receptors in the eye that respond optimally to red, green and blue light but this is a misconception," he says. "The long-wavelength sensitive cone, for example, has peak sensitivity in the yellow-green part of the spectrum, not the red part. "Subtractive Color MixingEnter subtractive color. "Subtractive colour mixing results when we mix together paints or inks," Westland says. "It relates to all of the colours we see of non-emissive objects, such as textiles, paints, plastics, inks, etc. "These materials are seen because they reflect the incident light that falls upon them. Take a piece of white paper; this paper reflects all of the wavelengths, leaving the others — which are seen as yellow — to be reflected. So rather than being additive, in this case we start with white (all the wavelengths being reflected) and then start to subtract light at certain wavelengths as we add the primaries."So the distinction in color systems really comes down to the chemical makeup of the objects like books and paintings. "Subtractive colors are those which reflect less light when they are mixed together," says Raiselis. "When artists' paints are mixed together, some light is absorbed, making colors that are darker and duller than the parent colors. Painters' subtractive primary because they cannot be made with mixtures of other pigments."So, Crayola and Google aren't wrong — in the material world, red, blue and yellow are the primary colors for TVs, computer screens mobile devices and more, all subscribe to Newton's light-emitting system, so their primary colors are red, green and blue. Kind of. Well, not really. The Distinction Between Additive and Subtractive ... And Why It's Wrong"It turns out that if we use three primaries, the best ones to use are cyan, magenta and yellow, "Westland says. "Note that these are the primaries that have been identified by the large printing companies who will use CMY (and often black as well) in their commercial devices to make a large range of colors. The idea that the subtractive primaries are red, yellow and blue (RYB) is confusing and should not be taught. It would be wrong to think that cyan and magenta are just fancy names for blue and red."It's shocking, but true: The names we've been using for our primary colors when it comes to coloring books and paint chips? Totally wrong. "The subtractive primaries are really cyan, magenta, and yellow," Fairchild says. "The names 'blue' for the 'cyan' and 'red' for the 'magenta' are typically misnomers. Other colors can be used as primaries, but they will not produce as wide a range of color mixtures." The reason behind these inaccurate terms? Light. "The yellow primary removes a small amount of blue light from the original white stimulus (e.g. white paper in printing or a white canvas), while a larger amount of yellow removes more blue light. The magenta primary controls the amount of red light. The subtractive primaries do this by absorbing different amounts. It's all about controlling the amounts of red, green and blue light. "Westland offers a scholastic example to illustrate the rampant misconception around primaries are RGB and that the subtractive primaries are RYB," he says. "A particularly bright student asks you: 'why are two of the primaries the same in both systems (R and B) but the G in the additive system is replaced by the Y in the subtractive system?' This is a horrible question because it has no rational answer. "You have to love the candor. The reason for the lack of rationale is that, as we've discussed, red, yellow and blue aren't the real subtractive primaries at all — magenta, yellow, and cyan are. "It turns out that RYB is in fact a particularly poor choice of subtractive primaries," Westland says. "Many of the mixtures that are produced are dull and desaturated and consequently, the gamut of colours you can produce will be small. What you should teach is that there is a clear relationship between the additive and subtractive colour primaries are RGB. The optimal additive primaries are RGB. The optimal subtractive primaries are cyan (which is green absorbing), magenta (which is green absorbing), and yellow (which is blue absorbing). Now, there is no conflict between the two systems and, in fact, it can be seen that additive and subtractive primaries are almost mirror images of each other. The best subtractive primaries are CMY because the best additive primaries are RGB."So, if cyan, magenta and yellow are the real deal primaries are RGB."So, if cyan, magenta and yellow? "Well, partly because they are incorrectly taught this from their first days at school," Westland says. "But also because it seems intuitive because people believe the following: 1) That it is possible to make all colours by mixing together three primaries, and 2) That the primaries are pure colours that cannot be made by mixing other colours."So ... those beliefs are wrong? The Truth About Red and BlueWell, yes, according to Westland, the idea that three pure primaries can create al the colors in the world is totally false. "We cannot make all colours from three primaries," he says. "We cannot do it with additive colour mixing and we cannot do it with subtractive colour mixing. If we use three primaries, we can make all the hues, but we cannot make all the colours; we will always struggle to make really saturated (vivid) colours. "Here's how to prove that: open an art program on your computer and create a red patch on the screen. Then print the patch using a CMYK printer. "The printer will produce red by mixing the magenta and yellow. If we use RYB or CMY — or, indeed, almost any other sensible set of three primaries, obviously not three reds! then we can make all hues; however, we cannot make all the colors. But we will get the biggest gamut of colours using CMY and that is why we can say that CMY are the optimal additive primaries."And as far as blue goes, it's not as pure as you think either. "It looks pure because it absorbs strongly in two thirds of the spectrum," Westland says. "It absorbs in the green and red parts. Red absorbs in the blue and green parts. If we mix them together, between them they are absorbing everywhere! The resultant mixture, although it may be a purple colour, will be dull and dark. The absorbing everywhere! The resultant mixture, although it may be a purple colour, will be dull and dark. The absorbing everywhere! The resultant mixture, although it may be a purple colour, will be dull and dark. cyan than blue because cyan absorbs mainly in the red part of the spectrum; and magenta absorbs mainly in the green parts of the spectrum. If we add magenta and cyan together we get absorbs mainly in the red and green parts of the spectrum. If we add magenta and cyan together we get absorbs mainly in the green part of the spectrum but we allow the blue light to be reflected. "To break it down, Westland offers this handy dandy guide: B = M + CG = C + YR = Y + MIf this in-depth explanation busted every color myth that's been ingrained in your brain since childhood and you're feeling a bit panicked, take heart: coloring books are reportedly great stress busters. And if you're desperate to learn more, check out Westland's two-minute video series on the subject and his blog. Fairchild also created a great resource that he says is for kids, but honestly — every adult should be required to study it. Originally Published: Jul 2, 2019

red yellow and blue are what type of colors. red yellow and blue are secondary colors. red yellow and blue are examples of. red yellow and blue are known as. red yellow and blue are types of colours

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