

Converting Colors

XYZ(20.9559, 13.9408, 1.9810)

Have a look what the booklet for
XYZ(20.9559, 13.9408, 1.9810)
contains.

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Color

**XYZ(21.0232, 13.9886,
1.9728)**

Conversions

Conversions Part 1

Format	Color
Hex	B4450D
RGB	180, 69, 13
RGB Percent	71%, 27%, 5%
CMY	0.2941, 0.7294, 0.9490
CMYK	0.00, 0.62, 0.93, 0.29
HSL	20°, 87%, 38%
HSV	20°, 93%, 71%
XYZ	21.0232, 13.9886, 1.9728
YIQ	95.8050, 84.1320, 6.1160

Conversions

Conversions Part 2

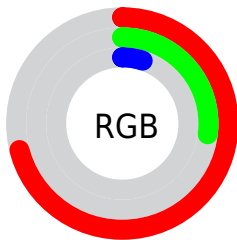
Format	Color
R _Y B	180, 97, 13
Decimal	11814157
CIE Lab	44.22, 42.83, 51.29
CIE LCh	44, 66.822, 50.138
Yxy	13.9886, 0.5684, 0.3782
Android (android.graphics.Color)	4290004237 (0xFFB4450D)
YUV	95.8050, -40.8229, 73.8390
Hunter-Lab	37.4013, 34.8821, 23.0536

Details

The XYZ color **21.0232, 13.9886, 1.9728** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **15.6113, 17.7950, 45.7918**, and the grayscale version is **11.1531, 11.7339, 12.7782**.

A 20% lighter version of the original color is **44.7537, 33.1111, 9.0333**, and **7.7392, 4.1849, 0.3999** is the 20% darker color. If you saturate the color by 10%, you get **20.4573, 12.9733, 1.4259**, and if you desaturate by 10%, it is **22.0099, 15.6826, 3.1635**.

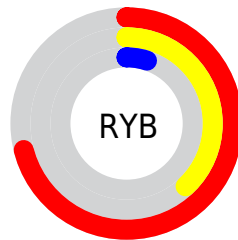
Distribution



Red (71%)

Green (27%)

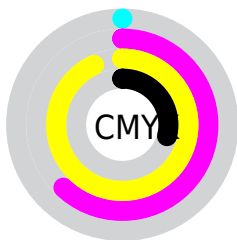
Blue (5%)



Red (71%)

Yellow (38%)

Blue (5%)

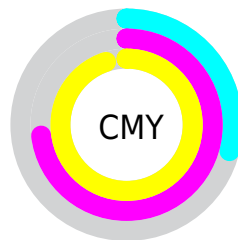


Cyan (0%)

Magenta (62%)

Yellow (93%)

Black (29%)



Cyan (29%)


Magenta (73%)


Yellow (95%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 21.0232, 13.9886, 1.9728 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 21.0232, 13.9886, 1.9728 by changing the saturation by 10% instead.


 21.0232, 13.9886,
1.9728


 21.0232, 13.9886,
1.9728


250.1311,
217.1599, 121.9530


 13.2535, 8.1127,
0.5385


 44.6171, 33.0688,
8.9663


 7.6816, 4.1672,
0.0000


 61.1721, 47.0419,
15.4222


 3.9419, 1.7675,
0.0000

 81.3862, 64.4829,
24.4088

 1.6693, 0.4668,
0.0000

 105.6248, 85.7762,
36.3448


 0.4370, 0.0000,
0.0000


 134.2532,
111.3061, 51.6487


 0.0000, 0.0000,
0.0000


 167.6368,


141.4571, 70.7390


 206.1410,
176.6136, 94.0342


 21.0232, 13.9886,
1.9728


 21.0232, 13.9886,
1.9728

 20.4573, 12.9733,
1.4259

 22.0099, 15.6826,
3.1635

 23.2853, 17.7421,
5.1033

 24.8766, 20.1908,
7.8967

 26.8072, 23.0493,
11.6309

 29.0977, 26.3368,
16.3825

■ 31.7672, 30.0710,
22.2199

■ 34.8332, 34.2685,
29.2056

■ 38.3120, 38.9451,
37.3972

■ 42.2190, 44.1158,
46.8486

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



25.4549, 13.9886, 7.1838



21.0232, 13.9886, 1.9728



15.1332, 13.9886, 0.7272

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



21.0232, 13.9886, 1.9728



5.5278, 13.9886, 10.7291



17.1538, 13.9886, 62.8880

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



21.0232, 13.9886, 1.9728



15.6113, 17.7950, 45.7918

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



11.6134, 13.9886, 66.4628



21.0232, 13.9886, 1.9728



5.7972, 13.9886, 27.7660

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



21.0232, 13.9886, 1.9728



6.8685, 13.9886, 3.0883



7.7403, 13.9886, 50.7950



22.8384, 13.9886, 42.9257

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



21.0232, 13.9886, 1.9728



11.5688, 13.9886, 0.7311



7.7403, 13.9886, 50.7950



15.1865, 13.9886, 66.3969

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



21.0235, 13.9894, 1.9730



59.9002, 57.6914, 45.4713



22.6255, 11.4549, 20.1982



12.4543, 11.7913, 8.7183



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



21.0235, 13.9894, 1.9730



36.9017, 23.1394, 2.5214



30.1503, 32.2430, 5.0153



8.7215, 8.9555, 8.9214



14.3343, 9.1672, 1.0139



0.5062, 0.3987, 0.0503

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



15.6113, 17.7950, 45.7918



26.8134, 29.7266, 82.6192



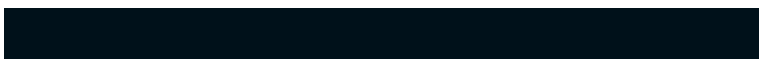
9.1915, 4.9554, 43.6518



8.4978, 9.1418, 10.8230



10.4707, 11.7418, 31.8515



0.3806, 0.4717, 1.0192

Previews

White Background



This preview shows how the XYZ color 21.0232, 13.9886, 1.9728 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 21.0232, 13.9886, 1.9728 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 21.0232, 13.9886, 1.9728

Background



This preview shows how black text looks on a background with the XYZ color 21.0232, 13.9886, 1.9728.



This preview shows how white text looks on a background with the XYZ color 21.0232, 13.9886,

1.9728.

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

21.0232, 13.9886, 1.9728

Protanopia

12.9164, 14.2919, 2.8884

Deuteranopia

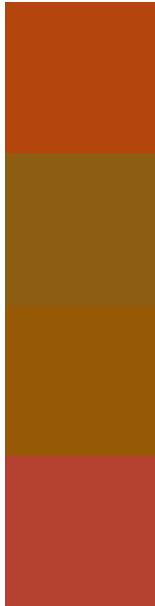
14.2300, 14.1009, 1.9717



Tritanopia

21.9328, 13.9079, 6.9973

Trichromacy



Original Color

21.0232, 13.9886, 1.9728

Protanomaly

15.0164, 13.5384, 2.4378

Deuteranomaly

16.1774, 13.6397, 1.9237

Tritanomaly

21.5378, 13.9336, 4.3506

Monochromacy



Original Color

21.0232, 13.9886, 1.9728

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

13.0636, 11.5610, 6.6972

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.0232, 13.9886, 1.9728 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(180, 69, 13)` looks like.

```
.text, #text, p{  
    color:rgb(180, 69, 13)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(180, 69, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 69, 13) }
```

Border

The CSS property to change the border of an element to XYZ 21.0232, 13.9886, 1.9728 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(180, 69, 13) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(180, 69, 13) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(180, 69, 13)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 69, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 69, 13);  
box-shadow:4px 4px 4px 4px rgb(180, 69,  
13) }
```

Background

The CSS property to change the background color of an element to XYZ 21.0232, 13.9886, 1.9728 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 69, 13) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(180, 69,  
13) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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