

Converting Colors

XYZ(19.9062, 12.0163, 4.4398)

Have a look what the booklet for
XYZ(19.9062, 12.0163, 4.4398)
contains.

XYZ(19.9570, 12.0421, 4.4045)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(19.9570, 12.0421,
4.4045)**

Conversions

Conversions Part 1

Format	Color
Hex	B13433
RGB	177, 52, 51
RGB Percent	69%, 20%, 20%
CMY	0.3059, 0.7960, 0.8000
CMYK	0.00, 0.71, 0.71, 0.31
HSL	0°, 55%, 45%
HSV	0°, 71%, 69%
XYZ	19.9570, 12.0421, 4.4045
YIQ	89.2610, 74.8210, 26.1890

Conversions

Conversions Part 2

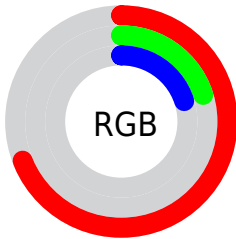
Format	Color
R_{YB}	177, 52, 51
Decimal	11613235
CIE Lab	41.28, 50.27, 30.11
CIE LCh	41, 58.599, 30.917
Yxy	12.0421, 0.5482, 0.3308
Android (android.graphics.Color)	4289803315 (0xFFB13433)
YUV	89.2610, -18.8627, 76.9471
Hunter-Lab	34.7017, 41.9275, 16.7659

Details

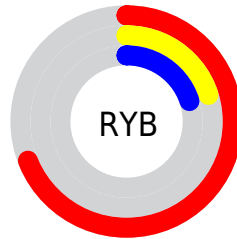
The XYZ color **19.9570, 12.0421, 4.4045** is a dark color, and the websafe version is hex **993333**. A complement of this color would be **24.8248, 34.9257, 47.0276**, and the grayscale version is **9.5830, 10.0820, 10.9793**.

A 20% lighter version of the original color is **43.0589, 29.7480, 15.0277**, and **7.3745, 3.7972, 0.5453** is the 20% darker color. If you saturate the color by 10%, you get **18.9951, 10.6285, 2.5114**, and if you desaturate by 10%, it is **21.3594, 14.0993, 7.1773**.

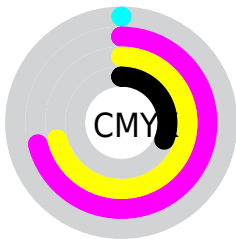
Distribution



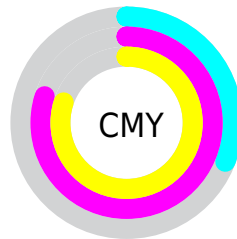
- Red (69%)
- Green (20%)
- Blue (20%)



- Red (69%)
- Yellow (20%)
- Blue (20%)



- Cyan (0%)
- Magenta (71%)
- Yellow (71%)
- Black (31%)





- Cyan (31%)
- Magenta (80%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 19.9570, 12.0421, 4.4045 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 19.9570, 12.0421, 4.4045 by changing the saturation by 10% instead.


 19.9570, 12.0421,
4.4045


 19.9570, 12.0421,
4.4045


244.5202,
204.6838, 152.6205


 12.4719, 6.7724,
1.8498


 42.8496, 29.5718,
14.9324

 7.1404, 3.3201,
0.4605


 58.9877, 42.6005,
23.7427

 3.5972, 1.3011,
0.0000

 78.7409, 58.9843,
35.4752

 1.4769, 0.1420,
0.0000

 102.4746, 79.1076,
50.5485

 0.3100, 0.0000,
0.0000

 130.5539,
103.3548, 69.3812

 0.0000, 0.0000,
0.0000

 163.3444,

132.1103, 92.3917

201.2114,
165.7585, 119.9986

■ 19.9570, 12.0421,
4.4045

■ 19.9570, 12.0421,
4.4045

■ 18.9951, 10.6285,
2.5114

■ 21.3594, 14.0993,
7.1773

■ 18.4207, 9.7808,
1.3917

■ 23.2456, 16.8621,
10.9185

■ 18.1467, 9.3778,
0.8537

■ 25.6546, 20.3874,
15.7065

■ 28.6211, 24.7258,
21.6117

■ 32.1772, 29.9237,
28.6982

■ 36.3521, 36.0238,
37.0254

■ 41.1733, 43.0660,
46.6487

■ 46.6667, 51.0880,
57.6200

■ 52.8567, 60.1252,
69.9886

Harmonies

Analogous

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



21.6803, 12.0421, 12.7417



19.9570, 12.0421, 4.4045



15.8813, 12.0421, 1.4635

Triad

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



19.9570, 12.0421, 4.4045



5.6989, 12.0421, 4.7247



11.5766, 12.0421, 53.0289

Complementary

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



19.9570, 12.0421, 4.4045



24.8248, 34.9257, 47.0276

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.



7.9239, 12.0421, 45.9115



19.9570, 12.0421, 4.4045



5.0781, 12.0421, 13.4890

Square

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



19.9570, 12.0421, 4.4045



7.7484, 12.0421, 1.5519



5.7813, 12.0421, 29.1303



16.1640, 12.0421, 45.0553

Rectangle

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



19.9570, 12.0421, 4.4045



12.7809, 12.0421, 0.9308



5.7813, 12.0421, 29.1303



10.2068, 12.0421, 52.2971

Sweetspot

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



19.9573, 12.0428, 4.4047



57.5093, 53.4183, 51.1600



27.2510, 14.8891, 43.0323



12.0708, 11.0031, 10.3049



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



19.9573, 12.0428, 4.4047



33.3982, 18.1192, 3.2828



24.7462, 21.6207, 6.0010



8.5016, 8.5158, 8.8482



13.1501, 6.7989, 0.6192



0.4156, 0.2175, 0.0201

Inverse Universe

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



24.8248, 34.9257, 47.0276



42.6135, 61.4863, 84.1174



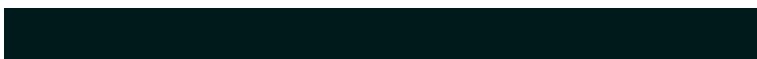
15.3184, 15.9128, 43.8588



8.7367, 9.6197, 10.9026



16.9418, 24.6839, 34.0085



0.5349, 0.7804, 1.0707

Previews

White Background



This preview shows how the XYZ color 19.9570, 12.0421, 4.4045 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 19.9570, 12.0421, 4.4045 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 19.9570, 12.0421, 4.4045

Background



This preview shows how black text looks on a background with the XYZ color 19.9570, 12.0421, 4.4045.



This preview shows how white text looks on a background with the XYZ color 19.9570, 12.0421,

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

19.9570, 12.0421, 4.4045

Protanopia

11.3247, 12.2048, 7.0691

Deuteranopia

12.4834, 12.3248, 4.1039



Tritanopia

20.0253, 12.0694, 4.7642

Trichromacy



Original Color

19.9570, 12.0421, 4.4045

Protanomaly

13.3005, 11.1273, 5.8617

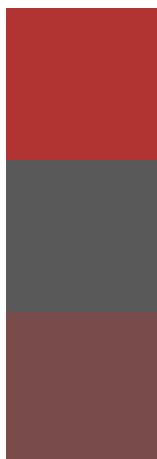
Deuteranomaly

14.4644, 11.5480, 4.1559

Tritanomaly

20.0021, 12.0601, 4.6418

Monochromacy



Original Color

19.9570, 12.0421, 4.4045

Achromatopsia

9.4954, 9.9899, 10.8790

Achromatomaly

11.7396, 9.7418, 7.9182

CSS Examples

Text

The CSS property to change the color of the text to XYZ 19.9570, 12.0421, 4.4045 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(177, 52, 51)` looks like.

```
.text, #text, p{  
    color:rgb(177, 52, 51)  
}
```

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(177, 52, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 52, 51) }
```

Border

The CSS property to change the border of an element to XYZ 19.9570, 12.0421, 4.4045 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(177, 52, 51) }
```


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

```
.border{ border-color:rgb(177, 52, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 52, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 52, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 52, 51);  
box-shadow:4px 4px 4px 4px rgb(177, 52,  
51) }
```

Background

The CSS property to change the background color of an element to XYZ 19.9570, 12.0421, 4.4045 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 52, 51) }
```

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

```
.background{ background-color: rgb(177, 52,  
51) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor