

Converting Colors

XYZ(3.8946, 1.6300, 0.0000)

Have a look what the booklet for
XYZ(3.8946, 1.6300, 0.0000)
contains.

XYZ(4.2164, 2.1737, 0.1973)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

XYZ(4.2164, 2.1737, 0.1973)

Conversions

Conversions Part 1

Format	Color
Hex	5A0000
RGB	90, 0, 0
RGB Percent	35%, 0%, 0%
CMY	0.6471, 1.0000, 1.0000
CMYK	0.00, 1.00, 1.00, 0.65
HSL	0°, 100%, 18%
HSV	0°, 100%, 35%
XYZ	4.2164, 2.1737, 0.1973
YIQ	26.9100, 53.6400, 19.0800

Conversions

Conversions Part 2

Format	Color
R_{YB}	90, 0, 0
Decimal	5898240
CIE Lab	16.37, 37.46, 25.41
CIE LCh	16, 45.262, 34.150
Yxy	2.1737, 0.6401, 0.3300
Android (android.graphics.Color)	4284088320 (0xFF5A0000)
YUV	26.9100, -13.2666, 55.3299
Hunter-Lab	14.7435, 25.2471, 9.5270

Details

The XYZ color **4.2164, 2.1737, 0.1973** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **5.5005, 8.0484, 10.9362**, and the grayscale version is **1.0421, 1.0964, 1.1940**.

A 20% lighter version of the original color is **13.7813, 9.1446, 3.7280**, and **0.7330, 0.3773, 0.0629** is the 20% darker color. If you saturate the color by 10%, you get **4.2165, 2.1738, 0.1974**, and if you desaturate by 10%, it is **4.3634, 2.3889, 0.4896**.

Distribution



Red (35%)

Green (0%)

Blue (0%)



Red (35%)

Yellow (0%)

Blue (0%)



Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (65%)



Cyan (65%)


Magenta (100%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 4.2164, 2.1737, 0.1973 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 4.2164, 2.1737, 0.1973 by changing the saturation by 10% instead.


 4.2164, 2.1737,
0.1973


 4.2164, 2.1737,
0.1973

 137.0922,
117.4058, 86.9898


 1.8253, 0.7056,
0.0000


 13.8649, 9.2037,
3.7190


 0.5328, 0.0000,
0.0000

 21.8529, 15.5464,
7.5407

 0.0000, 0.0000,
0.0000

 32.4373, 24.2866,
13.3563


 45.9835, 35.8089,
21.5842


 62.8567, 50.4975,
32.6429


 83.4223, 68.7369,


46.9511


 108.0457, 90.9116,
64.9272


 4.2164, 2.1737,
0.1973


 4.2164, 2.1737,
0.1973


 4.2165, 2.1738,
0.1974

 4.3634, 2.3889,
0.4896

 4.5420, 2.6502,
0.8444

 4.8063, 3.0369,
1.3698

 5.1658, 3.5631,
2.0845

 5.6285, 4.2402,
3.0043

■ 6.2015, 5.0786,
4.1434

■ 6.8912, 6.0878,
5.5144

■ 7.7034, 7.2764,
7.1292

■ 8.6439, 8.6525,
8.9989

Harmonies

Analogous

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



4.7899, 2.1737, 1.9741



4.2164, 2.1737, 0.1973



3.0724, 2.1737, 0.0000

Triad

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



4.2164, 2.1737, 0.1973



0.7285, 2.1737, 0.5939



2.2150, 2.1737, 14.0061

Complementary

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



4.2164, 2.1737, 0.1973



5.5005, 8.0484, 10.9362

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.



1.3076, 2.1737, 12.2496



4.2164, 2.1737, 0.1973



0.6208, 2.1737, 2.8084

Square

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



4.2164, 2.1737, 0.1973



1.1305, 2.1737, 0.0000



0.8085, 2.1737, 7.2935



3.4126, 2.1737, 11.0447

Rectangle

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



4.2164, 2.1737, 0.1973



2.2778, 2.1737, 0.0000



0.8085, 2.1737, 7.2935



1.8678, 2.1737, 13.9575

Sweetspot

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



4.2165, 2.1738, 0.1974



11.9296, 10.4655, 9.3959



6.0617, 2.9118, 9.9151



2.8038, 2.4130, 2.1127



46.7556, 49.1905, 53.5685



4.1094, 4.3234, 4.7081

Same Dimension

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



4.2165, 2.1738, 0.1974



7.3767, 3.8030, 0.3453



5.1547, 4.0503, 0.5101



2.3316, 2.3482, 2.4567



6.3871, 3.2929, 0.2990



34.9755, 18.0310, 1.6369

Inverse Universe

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



5.5005, 8.0484, 10.9362



9.6231, 14.0806, 19.1329



2.7838, 2.6149, 10.0306



2.3911, 2.6204, 2.9542



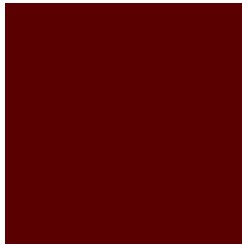
8.3322, 12.1917, 16.5662



45.6270, 66.7611, 90.7171

Previews

White Background



This preview shows how the XYZ color 4.2164, 2.1737, 0.1973 looks on a white background.

Color Contrast Check

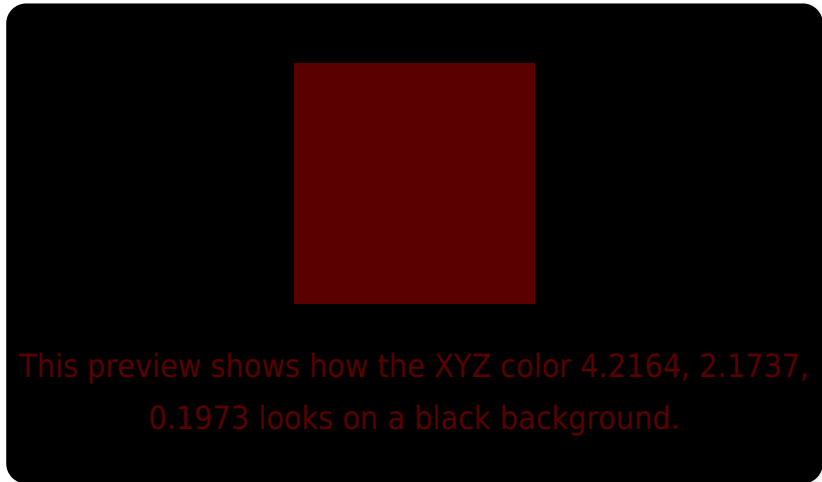
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

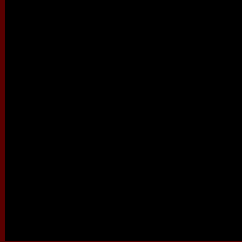
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 4.2164, 2.1737, 0.1973

Background



This preview shows how black text looks on a background with the XYZ color 4.2164, 2.1737, 0.1973.



This preview shows how white text looks on a background with the XYZ color 4.2164, 2.1737, 0.1973.

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

4.2164, 2.1737, 0.1973

Protanopia

2.4086, 2.6843, 0.7390

Deuteranopia

2.5512, 2.5976, 0.3669



Tritanopia

4.2067, 2.2975, 0.2217

Trichromacy



Original Color

4.2164, 2.1737, 0.1973

Protanomaly

2.6632, 2.0201, 0.4793

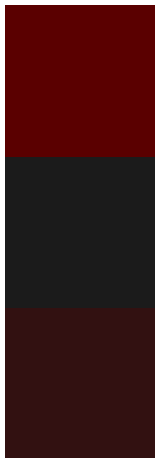
Deuteranomaly

2.8462, 2.0491, 0.2455

Tritanomaly

4.1741, 2.2324, 0.2109

Monochromacy



Original Color

4.2164, 2.1737, 0.1973

Achromatopsia

1.0418, 1.0960, 1.1936

Achromatomaly

1.6170, 1.1195, 0.6612

CSS Examples

Text

The CSS property to change the color of the text to XYZ 4.2164, 2.1737, 0.1973 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(90, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(90, 0, 0)  
}
```

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(90, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 0, 0) }
```

Border

The CSS property to change the border of an element to XYZ 4.2164, 2.1737, 0.1973 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(90, 0, 0) }
```

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

```
.border{ border-color:rgb(90, 0, 0) }
```

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

Here you see how a box with a 4 pixel rgb(90, 0, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(90, 0, 0); box-shadow:4px  
4px 4px 4px rgb(90, 0, 0) }
```


Background

The CSS property to change the background color of an element to XYZ 4.2164, 2.1737, 0.1973 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 0, 0) }
```

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

```
.background{ background-color: rgb(90, 0,  
0) }
```

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