

# Converting Colors

XYZ(21.1217, 11.6154, 2.3950)

Have a look what the booklet for  
XYZ(21.1217, 11.6154, 2.3950)  
contains.

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# Color

**XYZ(21.2574, 11.6967,  
2.4336)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BB201F
RGB	187, 32, 31
RGB Percent	73%, 13%, 12%
CMY	0.2667, 0.8745, 0.8784
CMYK	0.00, 0.83, 0.83, 0.27
HSL	0°, 72%, 43%
HSV	0°, 83%, 73%
XYZ	21.2574, 11.6967, 2.4336
YIQ	78.2310, 92.7010, 32.5490

# Conversions

## Conversions Part 2

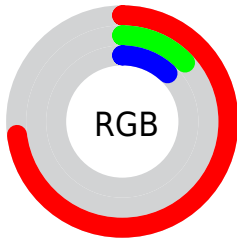
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	187, 32, 31
Decimal	12263455
CIE Lab	40.73, 58.98, 41.47
CIE LCh	41, 72.098, 35.116
Yxy	11.6967, 0.6007, 0.3305
Android (android.graphics.Color)	4290453535 (0xFFBB201F)
YUV	78.2310, -23.2849, 95.3904
Hunter-Lab	34.2004, 51.0965, 19.7214

# Details

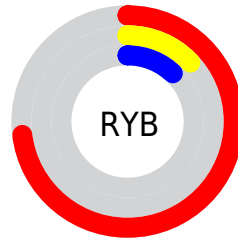
The XYZ color **21.2574, 11.6967, 2.4336** is a dark color, and the websafe version is hex **CC3333**. A complement of this color would be **27.0909, 38.9915, 53.1119**, and the grayscale version is **7.3168, 7.6978, 8.3829**.

A 20% lighter version of the original color is **45.1259, 29.0505, 10.2501**, and **8.4574, 4.3600, 0.3958** is the 20% darker color. If you saturate the color by 10%, you get **20.7112, 10.8911, 1.3681**, and if you desaturate by 10%, it is **22.2288, 13.1246, 4.3455**.

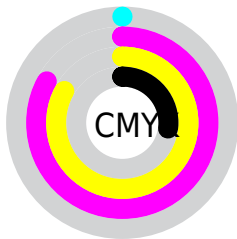
# Distribution



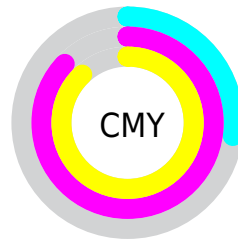
- Red (73%)
- Green (13%)
- Blue (12%)



- Red (73%)
- Yellow (13%)
- Blue (12%)



- Cyan (0%)
- Magenta (83%)
- Yellow (83%)
- Black (27%)




- Cyan (27%)
- Magenta (87%)
- Yellow (88%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.2574, 11.6967, 2.4336 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 21.2574, 11.6967, 2.4336 by changing the saturation by 10% instead.





 21.2574, 11.6967,  
2.4336


 21.2574, 11.6967,  
2.4336


251.3492,  
202.3869, 128.7830


 13.4258, 6.5375,  
0.8047


 45.0036, 28.9415,  
10.1955


 7.8014, 3.1746,  
0.0000

 61.6489, 41.7959,  
17.1742

 4.0189, 1.2235,  
0.0000

 81.9628, 57.9841,  
26.7762

 1.7128, 0.0808,  
0.0000

 106.3107, 77.8906,  
39.4199

 0.4643, 0.0000,  
0.0000


 135.0580,  
101.8997, 55.5239


 0.0000, 0.0000,  
0.0000


 168.5699,


130.3959, 75.5067


 207.2118,  
163.7635, 99.7869


 21.2574, 11.6967,  
2.4336


 21.2574, 11.6967,  
2.4336


 20.7112, 10.8911,  
1.3681


 22.2288, 13.1246,  
4.3455

 20.5066, 10.5911,  
0.9635

 23.6877, 15.2642,  
7.2309

 25.6870, 18.1928,  
11.1960

 28.2724, 21.9769,  
16.3331

 31.4850, 26.6761,  
22.7246

■ 35.3619, 32.3447,  
30.4455

■ 39.9376, 39.0327,  
39.5650

■ 45.2441, 46.7868,  
50.1473

■ 51.3113, 55.6505,  
62.2529

# Harmonies

## Analogous

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



24.0701, 11.6967, 10.3858



21.2574, 11.6967, 2.4336



15.7899, 11.6967, 0.3369

# Triad

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



21.2574, 11.6967, 2.4336



4.3699, 11.6967, 4.1807



12.0175, 11.6967, 66.4220

# Complementary

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



21.2574, 11.6967, 2.4336



27.0909, 38.9915, 53.1119

# 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.



7.4716, 11.6967, 59.1767



21.2574, 11.6967, 2.4336



3.9176, 11.6967, 15.4158

# Square

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



21.2574, 11.6967, 2.4336



6.3658, 11.6967, 0.7864



4.8575, 11.6967, 36.7765



17.7878, 11.6967, 52.4555



# Rectangle

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



21.2574, 11.6967, 2.4336



11.9758, 11.6967, 0.0000



4.8575, 11.6967, 36.7765



10.3010, 11.6967, 66.4518

# Sweetspot

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



21.2577, 11.6974, 2.4338



61.8595, 55.7750, 51.5921



29.9531, 15.1326, 48.3558



13.0709, 11.4761, 10.2629



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



21.2577, 11.6974, 2.4338



36.7209, 18.9557, 1.7234



26.2094, 21.6010, 4.0844



9.5350, 9.5460, 9.9167



14.1314, 7.3015, 0.6645



0.5553, 0.2894, 0.0266



# Inverse Universe

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



27.0909, 38.9915, 53.1119



47.4244, 69.1455, 95.0483



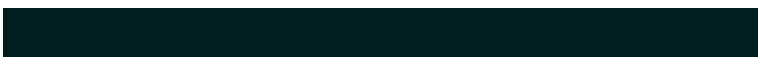
15.0033, 14.8164, 49.0827



9.8032, 10.7986, 12.2399



18.2496, 26.6109, 36.5675



0.7166, 1.0458, 1.4330



# Previews

## White Background



This preview shows how the XYZ color 21.2574, 11.6967, 2.4336 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 21.2574, 11.6967, 2.4336 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 21.2574, 11.6967, 2.4336**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.2574, 11.6967, 2.4336.



This preview shows how white text looks on a background with the XYZ color 21.2574, 11.6967,



# 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

21.2574, 11.6967, 2.4336

### Protanopia

10.9721, 11.9428, 4.4162

### Deuteranopia

12.0619, 11.8918, 2.0074



## Tritanopia

21.2574, 11.6967, 2.4336

# Trichromacy



## Original Color

21.2574, 11.6967, 2.4336

## Protanomaly

13.0993, 10.2435, 3.3846

## Deuteranomaly

14.1618, 10.5383, 1.9038

## Tritanomaly

21.2574, 11.6967, 2.4336

# Monochromacy



## Original Color

21.2574, 11.6967, 2.4336

## Achromatopsia

7.2414, 7.6185, 8.2966

## Achromatomaly

9.9823, 7.5260, 5.3414

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.2574, 11.6967, 2.4336 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(187, 32, 31)` looks like.

```
.text, #text, p{  
    color:rgb(187, 32, 31)  
}
```

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(187, 32, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 32, 31) }
```

## Border

The CSS property to change the border of an element to XYZ 21.2574, 11.6967, 2.4336 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(187, 32, 31) }
```



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

```
.border{ border-color:rgb(187, 32, 31) }
```

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

Here you see how a box with a 4 pixel rgb(187, 32, 31) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 32, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 32, 31);  
box-shadow:4px 4px 4px 4px rgb(187, 32,  
31) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.2574, 11.6967, 2.4336 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 32, 31) }
```

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

```
.background{ background-color: rgb(187, 32,  
31) }
```

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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