

# Converting Colors

XYZ(32.8206, 18.1838, 2.5641)

Have a look what the booklet for  
XYZ(32.8206, 18.1838, 2.5641)  
contains.

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# Color

**XYZ(32.6872, 18.1166,  
2.5331)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E32B16
RGB	227, 43, 22
RGB Percent	89%, 17%, 9%
CMY	0.1098, 0.8313, 0.9137
CMYK	0.00, 0.81, 0.90, 0.11
HSL	6°, 82%, 49%
HSV	6°, 90%, 89%
XYZ	32.6872, 18.1166, 2.5331
YIQ	95.6220, 116.4050, 32.4770

# Conversions

## Conversions Part 2

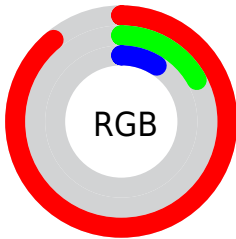
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	227, 45, 22
Decimal	14887702
CIE Lab	49.64, 67.39, 56.07
CIE LCh	50, 87.667, 39.763
Yxy	18.1166, 0.6128, 0.3397
Android (android.graphics.Color)	4293077782 (0xFFE32B16)
YUV	95.6220, -36.2956, 115.2185
Hunter-Lab	42.5636, 62.5948, 26.2660

# Details

The XYZ color **32.6872, 18.1166, 2.5331** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **36.2628, 49.8504, 80.3831**, and the grayscale version is **11.0940, 11.6717, 12.7105**.

A 20% lighter version of the original color is **47.6350, 32.2303, 9.6717**, and **14.9003, 7.6814, 0.6973** is the 20% darker color. If you saturate the color by 10%, you get **31.9901, 16.9544, 1.5865**, and if you desaturate by 10%, it is **33.9454, 20.1163, 4.5463**.

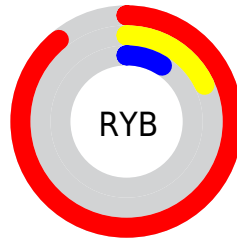
# Distribution



Red (89%)

Green (17%)

Blue (9%)



Red (89%)

Yellow (18%)

Blue (9%)

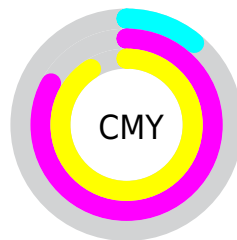


Cyan (0%)

Magenta (81%)

Yellow (90%)

Black (11%)



Cyan (11%)

Magenta (83%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.6872, 18.1166, 2.5331 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 32.6872, 18.1166, 2.5331 by changing the saturation by 10% instead.





 32.6872, 18.1166,  
2.5331


 32.6872, 18.1166,  
2.5331


305.9278,  
241.5274, 130.1718

 22.0450, 11.0337,  
0.8576


 63.2448, 40.2359,  
10.4528

 14.0068, 6.0895,  
0.0000


 83.8910, 56.0411,  
17.5380


 8.2071, 2.8996,  
0.0000


 108.6025, 75.5226,  
27.2648

 4.2807, 1.0795,  
0.0000

 137.7447, 99.0647,  
40.0517

 1.8621, 0.0000,  
0.0000

 171.6830,  
127.0519, 56.3173


 0.5547, 0.0000,  
0.0000


 210.7827,


 0.0000, 0.0000,


159.8684, 76.4802


0.0000


 255.4092,  
197.8988, 100.9588


 32.6872, 18.1166,  
2.5331


 32.6872, 18.1166,  
2.5331


 31.9901, 16.9544,  
1.5865

 33.9454, 20.1163,  
4.5463

 35.8554, 23.0448,  
7.9318

 38.4920, 26.9987,  
12.8779

 41.9192, 32.0616,  
19.5431

 46.1940, 38.3087,  
28.0665

■ 51.3680, 45.8082,  
38.5728

■ 57.4888, 54.6235,  
51.1759

■ 64.6005, 64.8134,  
65.9811

■ 72.7445, 76.4333,  
83.0867

# Harmonies

## Analogous

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



38.3021, 18.1166, 12.9285



32.6872, 18.1166, 2.5331



23.3707, 18.1166, 0.2326

# Triad

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



32.6872, 18.1166, 2.5331



6.1438, 18.1166, 7.7384



20.0789, 18.1166, 108.1733

# Complementary

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



32.6872, 18.1166, 2.5331



36.2628, 49.8504, 80.3831

# 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.



12.2547, 18.1166, 101.5770



32.6872, 18.1166, 2.5331



5.7712, 18.1166, 28.5658

# Square

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



32.6872, 18.1166, 2.5331



8.8761, 18.1166, 1.3058



7.6130, 18.1166, 65.9759



29.6209, 18.1166, 80.1140



# Rectangle

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



32.6872, 18.1166, 2.5331



17.2855, 18.1166, 0.0000



7.6130, 18.1166, 65.9759



17.1533, 18.1166, 110.2500

# Sweetspot

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



32.6876, 18.1177, 2.5334



69.2350, 63.0438, 55.0576



43.1665, 21.3851, 60.5636



14.2662, 12.6959, 10.6513



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



32.6876, 18.1177, 2.5334



41.6126, 22.0052, 2.0542



41.9484, 36.6394, 5.6203



14.4953, 14.6045, 14.9594



18.6963, 9.9667, 0.9384



1.4220, 0.8173, 0.0828



# Inverse Universe

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



36.2628, 49.8504, 80.3831



46.0296, 63.1792, 104.3765



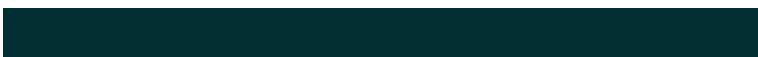
19.1462, 15.6173, 74.6776



14.6746, 16.0706, 18.4728



20.6916, 28.4453, 46.7831



1.5656, 2.1752, 3.4693



# Previews

## White Background



This preview shows how the XYZ color 32.6872, 18.1166, 2.5331 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 32.6872, 18.1166, 2.5331 looks on a black 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

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

**XYZ 32.6872, 18.1166, 2.5331**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.6872, 18.1166, 2.5331.



This preview shows how white text looks on a background with the XYZ color 32.6872, 18.1166,



# 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

32.6872, 18.1166, 2.5331

### Protanopia

16.6359, 18.3267, 4.5801

### Tritanopia

32.8545, 18.0700, 3.7637

# Trichromacy



## Original Color

32.6872, 18.1166, 2.5331

## Protanomaly

19.9519, 15.8075, 3.4384

## Tritanomaly

32.7810, 18.0966, 3.2041

# Monochromacy



## Original Color

32.6872, 18.1166, 2.5331

## Achromatopsia

11.1181, 11.6971, 12.7381

## Achromatomaly

15.2297, 11.6667, 7.0794

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.6872, 18.1166, 2.5331 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(227, 43, 22)` looks like.

```
.text, #text, p{  
    color:rgb(227, 43, 22)  
}
```

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(227, 43, 22) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 43, 22) }
```

## Border

The CSS property to change the border of an element to XYZ 32.6872, 18.1166, 2.5331 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(227, 43, 22) }
```

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

```
.border{ border-color:rgb(227, 43, 22) }
```

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

Here you see how a box with a 4 pixel rgb(227, 43, 22) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 43, 22); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 43, 22);  
box-shadow:4px 4px 4px 4px rgb(227, 43,  
22) }
```



# Background

The CSS property to change the background color of an element to XYZ 32.6872, 18.1166, 2.5331 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 43, 22) }
```

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

```
.background{ background-color: rgb(227, 43,  
22) }
```

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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