

Converting Colors

XYZ(36.8866, 20.0261, 7.9070)

Have a look what the booklet for
XYZ(36.8866, 20.0261, 7.9070)
contains.

XYZ(36.8212, 19.9770, 7.8765)	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(36.8212, 19.9770,
7.8765)**

Conversions

Conversions Part 1

Format	Color
Hex	ED2847
RGB	237, 40, 71
RGB Percent	93%, 16%, 28%
CMY	0.0706, 0.8431, 0.7216
CMYK	0.00, 0.83, 0.70, 0.07
HSL	351°, 85%, 54%
HSV	351°, 83%, 93%
XYZ	36.8212, 19.9770, 7.8765
YIQ	102.4370, 107.4610, 51.4050

Conversions

Conversions Part 2

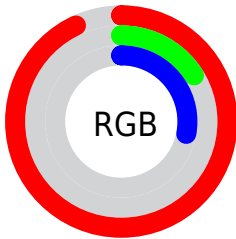
Format	Color
RYB	237, 40, 71
Decimal	15542343
CIELab	51.81, 72.20, 33.58
CIELCh	52, 79.631, 24.943
Yxy	19.9770, 0.5693, 0.3089
Android (android.graphics.Color)	4293732423 (0xFFED2847)
YUV	102.4370, -15.4984, 118.0118
Hunter-Lab	44.6956, 68.8347, 20.8386

Details

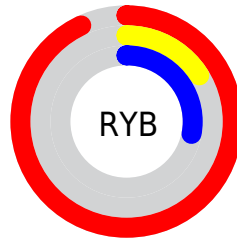
The XYZ color **36.8212, 19.9770, 7.8765** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **42.3026, 65.4767, 68.8125**, and the grayscale version is **12.7657, 13.4305, 14.6258**.

A 20% lighter version of the original color is **49.8275, 33.1073, 21.2169**, and **17.4432, 8.9681, 1.9103** is the 20% darker color. If you saturate the color by 10%, you get **35.7131, 18.6238, 4.8477**, and if you desaturate by 10%, it is **38.6296, 22.3944, 12.1779**.

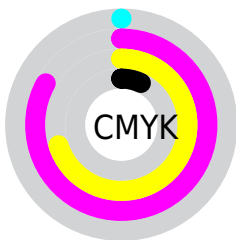
Distribution



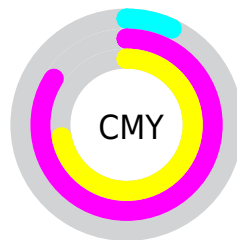
- Red (93%)
- Green (16%)
- Blue (28%)



- Red (93%)
- Yellow (16%)
- Blue (28%)



- Cyan (0%)
- Magenta (83%)
- Yellow (70%)
- Black (7%)





- Cyan (7%)
- Magenta (84%)
- Yellow (72%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 36.8212, 19.9770, 7.8765 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 36.8212, 19.9770, 7.8765 by changing the saturation by 10% instead.


 36.8212, 19.9770,
7.8765


 36.8212, 19.9770,
7.8765

323.9048,
251.7906, 184.6584

 25.2421, 12.3783,
3.9294

 69.6133, 43.3786,
22.2581

 16.3872, 7.0019,
1.5867


 91.5571, 59.9504,
33.5297

 9.8912, 3.4633,
0.2813


 117.6864, 80.2819,
48.0799

 5.3886, 1.3781,
0.0000

 148.3668,
104.7576, 66.3272

 2.5141, 0.2005,
0.0000

 183.9634,
133.7620, 88.6902

 0.9024, 0.0000,
0.0000

224.8417,

 0.0000, 0.0000,

167.6793, 115.5873

0.0000

271.3670,
206.8941, 147.4372

■ 36.8212, 19.9770,
7.8765

■ 36.8212, 19.9770,
7.8765

■ 35.7131, 18.6238,
4.8477

■ 38.6296, 22.3944,
12.1779


■ 35.2632, 18.1398,
3.4158


■ 41.2333, 26.0353,
17.8752


■ 44.7134, 31.0357,
25.0773


■ 49.1405, 37.5126,
33.8820

■ 54.5779, 45.5705,
44.3787

 61.0834, 55.3042,
56.6502

 68.7102, 66.8012,
70.7737

 77.5082, 80.1429,
86.8220

 87.5242, 95.4055,
104.8637

Harmonies

Analogous

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



39.0206, 19.9770, 25.9090



36.8212, 19.9770, 7.8765



29.3691, 19.9770, 1.8842

Triad

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



36.8212, 19.9770, 7.8765



8.9065, 19.9770, 4.9077



17.6522, 19.9770, 102.8525

Complementary

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



36.8212, 19.9770, 7.8765



42.3026, 65.4767, 68.8125

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.



11.3958, 19.9770, 82.1874



36.8212, 19.9770, 7.8765



7.3447, 19.9770, 18.0645

Square

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



36.8212, 19.9770, 7.8765



13.1661, 19.9770, 1.2166



8.1060, 19.9770, 46.3940



26.3129, 19.9770, 92.0621

Rectangle

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



36.8212, 19.9770, 7.8765



23.3110, 19.9770, 0.8692



8.1060, 19.9770, 46.3940



15.2347, 19.9770, 99.0881

Sweetspot

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



36.8217, 19.9782, 7.8768



70.5006, 62.8608, 63.8468



40.9937, 20.4946, 81.9156



14.4980, 12.5680, 12.5517



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.



36.8217, 19.9782, 7.8768



41.6248, 21.4139, 3.9565



40.4292, 28.3998, 5.3600



15.1621, 15.0927, 16.1387



19.2831, 9.9159, 2.0264



1.5434, 0.7903, 0.3131

Inverse Universe

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



36.8217, 19.9782, 7.8768



41.6248, 21.4139, 3.9565



30.7889, 35.8200, 85.4116



15.1621, 15.0927, 16.1387



19.2831, 9.9159, 2.0264



1.5434, 0.7903, 0.3131

Previews

White Background



This preview shows how the XYZ color 36.8212, 19.9770, 7.8765 looks on a white 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

Black Background



This preview shows how the XYZ color 36.8212, 19.9770, 7.8765 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 36.8212, 19.9770, 7.8765

Background



This preview shows how black text looks on a background with the XYZ color 36.8212, 19.9770, 7.8765.

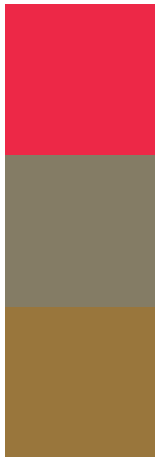


This preview shows how white text looks on a background with the XYZ color 36.8212, 19.9770,

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

36.8212, 19.9770, 7.8765

Protanopia

19.0723, 20.2604, 15.2174

Deuteranopia

20.4309, 20.0554, 7.0692



Tritanopia

36.0427, 19.9763, 4.4388

Trichromacy



Original Color

36.8212, 19.9770, 7.8765

Protanomaly

22.3374, 17.1129, 11.7987

Deuteranomaly

24.3487, 17.8728, 7.0170

Tritanomaly

36.1586, 19.9006, 5.4255

Monochromacy



Original Color

36.8212, 19.9770, 7.8765

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

17.4468, 12.9266, 11.4731

CSS Examples

Text

The CSS property to change the color of the text to XYZ 36.8212, 19.9770, 7.8765 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(237, 40, 71)` looks like.

```
.text, #text, p{  
    color:rgb(237, 40, 71)  
}
```

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(237, 40, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 40, 71) }
```

Border

The CSS property to change the border of an element to XYZ 36.8212, 19.9770, 7.8765 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(237, 40, 71) }
```


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

```
.border{ border-color:rgb(237, 40, 71) }
```

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

Here you see how a box with a 4 pixel rgb(237, 40, 71) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 40, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 40, 71);  
box-shadow:4px 4px 4px 4px rgb(237, 40,  
71) }
```

Background

The CSS property to change the background color of an element to XYZ 36.8212, 19.9770, 7.8765 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 40, 71) }
```

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

```
.background{ background-color: rgb(237, 40,  
71) }
```

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