

Converting Colors

XYZ(40.8315, 20.9889, 4.6428)

Have a look what the booklet for
XYZ(40.8315, 20.9889, 4.6428)
contains.

XYZ(40.6784, 20.9088, 4.6881)	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(40.6784, 20.9088,
4.6881)**

Conversions

Conversions Part 1

Format	Color
Hex	FC0030
RGB	252, 0, 48
RGB Percent	99%, 0%, 19%
CMY	0.0118, 0.9997, 0.8118
CMYK	0.00, 1.00, 0.81, 0.01
HSL	349°, 100%, 49%
HSV	349°, 100%, 99%
XYZ	40.6784, 20.9088, 4.6881
YIQ	80.8200, 134.7840, 68.3520

Conversions

Conversions Part 2

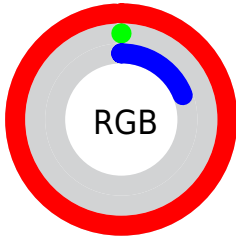
Format	Color
RYB	252, 0, 48
Decimal	16515120
CIELab	52.85, 80.04, 48.61
CIELCh	53, 93.640, 31.271
Yxy	20.9088, 0.6138, 0.3155
Android (android.graphics.Color)	4294705200 (0xFFFC0030)
YUV	80.8200, -16.1803, 150.1249
Hunter-Lab	45.7261, 78.7745, 25.9296

Details

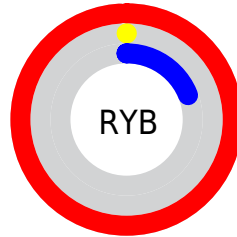
The XYZ color **40.6784, 20.9088, 4.6881** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **45.7178, 73.9835, 69.0379**, and the grayscale version is **7.8049, 8.2113, 8.9421**.

A 20% lighter version of the original color is **47.4884, 30.4520, 14.2014**, and **20.0295, 10.3231, 1.0517** is the 20% darker color. If you saturate the color by 10%, you get **40.6771, 20.9083, 4.6824**, and if you desaturate by 10%, it is **41.5538, 21.8243, 7.5563**.

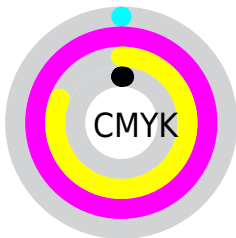
Distribution



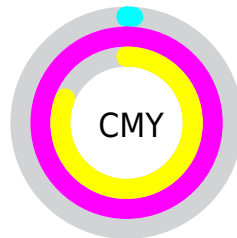
- Red (99%)
- Green (0%)
- Blue (19%)



- Red (99%)
- Yellow (0%)
- Blue (19%)



- Cyan (0%)
- Magenta (100%)
- Yellow (81%)
- Black (1%)





- Cyan (1%)
- Magenta (100%)
- Yellow (81%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 40.6784, 20.9088, 4.6881 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 40.6784, 20.9088, 4.6881 by changing the saturation by 10% instead.


 40.6784, 20.9088,
4.6881


 40.6784, 20.9088,
4.6881

340.0603,
256.7934, 155.5914

 28.2544, 13.0574,
2.0099


 75.4732, 44.9357,
15.5680


 18.6590, 7.4681,
0.5614


 98.5748, 61.8799,
24.6068

 11.5267, 3.7565,
0.0000


 125.9664, 82.6239,
36.6028

 6.4921, 1.5383,
0.0000

 158.0132,
107.5520, 51.9747

 3.1901, 0.3155,
0.0000

 195.0806,
137.0486, 71.1410

 1.2551, 0.0000,
0.0000

 237.5340,

 0.1492, 0.0000,

171.4981, 94.5202

0.0000

285.7388,
211.2849, 122.5308

■ 0.0000, 0.0000,
0.0000

■ 40.6784, 20.9088,
4.6881

■ 40.6784, 20.9088,
4.6881

■ 40.6771, 20.9083,
4.6824

■ 41.5538, 21.8243,
7.5563

■ 43.1005, 23.7346,
11.7191

■ 45.4780, 26.9270,
17.3295

■ 48.7891, 31.5780,
24.5097

■ 53.1209, 37.8365,
33.3686

■ 58.5505, 45.8325,
44.0051

■ 65.1473, 55.6830,
56.5102

■ 72.9748, 67.4945,
70.9686

■ 82.0921, 81.3656,
87.4597

Harmonies

Analogous

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



45.2374, 20.9088, 21.5916



40.6784, 20.9088, 4.6881



30.3561, 20.9088, 0.6297

Triad

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



40.6784, 20.9088, 4.6881



7.5203, 20.9088, 5.4478



20.2935, 20.9088, 130.2745

Complementary

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



40.6784, 20.9088, 4.6881



45.7178, 73.9835, 69.0379

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.



12.1330, 20.9088, 110.2265



40.6784, 20.9088, 4.6881



6.3749, 20.9088, 23.9825

Square

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



40.6784, 20.9088, 4.6881



11.6201, 20.9088, 0.7749



7.7408, 20.9088, 63.7477



31.3251, 20.9088, 106.8407

Rectangle

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



40.6784, 20.9088, 4.6881



22.8669, 20.9088, 0.0000



7.7408, 20.9088, 63.7477



17.1529, 20.9088, 128.3304

Sweetspot

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



40.6789, 20.9101, 4.6884



66.8919, 57.1529, 57.9906



41.8237, 19.5322, 93.6606



13.6740, 11.2688, 11.2018



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.



40.6789, 20.9101, 4.6884



41.7843, 21.4777, 4.7961



42.7051, 25.8156, 2.7340



17.3795, 17.2792, 18.5883



21.2289, 10.9073, 2.6478



2.0010, 1.0241, 0.4287

Inverse Universe

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



40.6789, 20.9101, 4.6884



41.7843, 21.4777, 4.7961



33.1790, 38.2439, 97.7280



17.3795, 17.2792, 18.5883



21.2289, 10.9073, 2.6478



2.0010, 1.0241, 0.4287

Previews

White Background



This preview shows how the XYZ color 40.6784, 20.9088, 4.6881 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



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 40.6784, 20.9088, 4.6881

Background



This preview shows how black text looks on a background with the XYZ color 40.6784, 20.9088, 4.6881.



This preview shows how white text looks on a background with the XYZ color 40.6784, 20.9088,

4.6881.

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

40.6784, 20.9088, 4.6881

Protanopia

19.8044, 21.5218, 9.7669

Deuteranopia

21.7449, 21.3357, 4.0707



Tritanopia

40.0706, 21.0830, 1.9575

Trichromacy



Original Color

40.6784, 20.9088, 4.6881

Protanomaly

22.9526, 16.0903, 6.8970

Deuteranomaly

25.2054, 16.8984, 3.5234

Tritanomaly

40.0419, 20.8638, 2.4470

Monochromacy



Original Color

40.6784, 20.9088, 4.6881

Achromatopsia

7.8210, 8.2283, 8.9606

Achromatomaly

13.6299, 8.7253, 6.5960

CSS Examples

Text

The CSS property to change the color of the text to XYZ 40.6784, 20.9088, 4.6881 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(252, 0, 48)` looks like.

```
.text, #text, p{  
    color:rgb(252, 0, 48)  
}
```

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(252, 0, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 0, 48) }
```

Border

The CSS property to change the border of an element to XYZ 40.6784, 20.9088, 4.6881 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(252, 0, 48) }
```


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

```
.border{ border-color:rgb(252, 0, 48) }
```

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

Here you see how a box with a 4 pixel rgb(252, 0, 48) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 0, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(252, 0, 48);  
box-shadow:4px 4px 4px 4px rgb(252, 0, 48)  
}
```

Background

The CSS property to change the background color of an element to XYZ 40.6784, 20.9088, 4.6881 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(252, 0, 48) }
```

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

```
.background{ background-color: rgb(252, 0,  
48) }
```

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