

Converting Colors

XYZ(40.7998, 20.9773, 4.4733)

Have a look what the booklet for
XYZ(40.7998, 20.9773, 4.4733)
contains.

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Color

**XYZ(40.6380, 20.8927,
4.4756)**

Conversions

Conversions Part 1

Format	Color
Hex	FC002E
RGB	252, 0, 46
RGB Percent	99%, 0%, 18%
CMY	0.0118, 0.9997, 0.8196
CMYK	0.00, 1.00, 0.82, 0.01
HSL	349°, 100%, 49%
HSV	349°, 100%, 99%
XYZ	40.6380, 20.8927, 4.4756
YIQ	80.5920, 135.4260, 67.7300

Conversions

Conversions Part 2

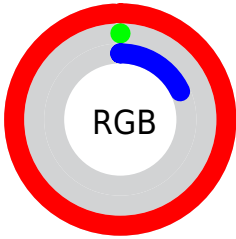
Format	Color
RYB	252, 0, 46
Decimal	16515118
CIELab	52.83, 79.99, 49.65
CIElCh	53, 94.145, 31.830
Yxy	20.8927, 0.6157, 0.3165
Android (android.graphics.Color)	4294705198 (0xFFFC002E)
YUV	80.5920, -17.0539, 150.3248
Hunter-Lab	45.7085, 78.7087, 26.1905

Details

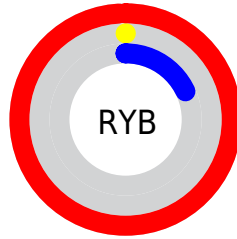
The XYZ color **40.6380, 20.8927, 4.4756** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **45.9598, 74.0802, 70.3124**, and the grayscale version is **7.7620, 8.1662, 8.8930**.

A 20% lighter version of the original color is **47.3987, 30.4161, 13.7286**, and **20.0131, 10.3165, 0.9652** is the 20% darker color. If you saturate the color by 10%, you get **40.6366, 20.8921, 4.4697**, and if you desaturate by 10%, it is **41.4993, 21.8026, 7.2695**.

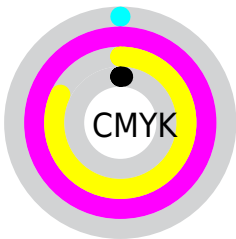
Distribution



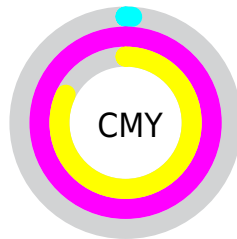
- Red (99%)
- Green (0%)
- Blue (18%)



- Red (99%)
- Yellow (0%)
- Blue (18%)



- Cyan (0%)
- Magenta (100%)
- Yellow (82%)
- Black (1%)





- Cyan (1%)
- Magenta (100%)
- Yellow (82%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 40.6380, 20.8927, 4.4756 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 40.6380, 20.8927, 4.4756 by changing the saturation by 10% instead.


 40.6380, 20.8927,
4.4756


 40.6380, 20.8927,
4.4756


339.8938,
256.7077, 153.3734


 28.2228, 13.0456,
1.8897


 75.4122, 44.9089,
15.0926


 18.6350, 7.4599,
0.4862


 98.5020, 61.8468,
23.9608

 11.5092, 3.7514,
0.0000


 125.8805, 82.5837,
35.7601

 6.4803, 1.5355,
0.0000

 157.9133,
107.5040, 50.9092

 3.1827, 0.3135,
0.0000

 194.9657,
136.9922, 69.8265

 1.2511, 0.0000,
0.0000

 237.4030,

 0.1461, 0.0000,

171.4326, 92.9306

0.0000

285.5906,
211.2097, 120.6401

■ 0.0000, 0.0000,
0.0000

■ 40.6380, 20.8927,
4.4756

■ 40.6380, 20.8927,
4.4756

■ 40.6366, 20.8921,
4.4697

■ 41.4993, 21.8026,
7.2695

■ 43.0343, 23.7084,
11.3702

■ 45.4033, 26.8975,
16.9351

■ 48.7097, 31.5469,
24.0901

■ 53.0413, 37.8054,
32.9471

■ 58.4755, 45.8036,
43.6077

■ 65.0824, 55.6583,
56.1653

■ 72.9258, 67.4764,
70.7066

■ 82.0652, 81.3566,
87.3132

Harmonies

Analogous

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



45.3780, 20.8927, 21.0629



40.6380, 20.8927, 4.4756



30.1857, 20.8927, 0.5660

Triad

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



40.6380, 20.8927, 4.4756



7.4201, 20.8927, 5.5671



20.4678, 20.8927, 131.1045

Complementary

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



40.6380, 20.8927, 4.4756



45.9598, 74.0802, 70.3124

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.



12.2038, 20.8927, 111.6326



40.6380, 20.8927, 4.4756



6.3226, 20.8927, 24.5220

Square

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



40.6380, 20.8927, 4.4756



11.4633, 20.8927, 0.7762



7.7378, 20.8927, 64.9144



31.5895, 20.8927, 106.7133

Rectangle

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



40.6380, 20.8927, 4.4756



22.6672, 20.8927, 0.0000



7.7378, 20.8927, 64.9144



17.2909, 20.8927, 129.4344

Sweetspot

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



40.6384, 20.8940, 4.4759



66.8241, 57.1258, 57.6337



42.9727, 20.1246, 93.7142



13.6584, 11.2626, 11.1198



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.



40.6384, 20.8940, 4.4759



41.7429, 21.4612, 4.5781



43.0024, 26.4104, 2.8332



17.3738, 17.2769, 18.5583



21.2065, 10.8983, 2.5299



1.9981, 1.0230, 0.4136

Inverse Universe

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



40.6384, 20.8940, 4.4759



41.7429, 21.4612, 4.5781



32.3661, 36.6180, 97.4568



17.3738, 17.2769, 18.5583



21.2065, 10.8983, 2.5299



1.9981, 1.0230, 0.4136

Previews

White Background



This preview shows how the XYZ color 40.6380, 20.8927, 4.4756 looks on a white background.

Color Contrast Check

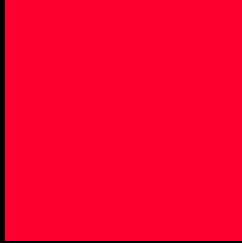
Large Text (above 18pt) WCAG AA ✓ Pass

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 40.6380, 20.8927, 4.4756 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 40.6380, 20.8927, 4.4756

Background



This preview shows how black text looks on a background with the XYZ color 40.6380, 20.8927, 4.4756.



This preview shows how white text looks on a background with the XYZ color 40.6380, 20.8927,

4.4756.

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

40.6380, 20.8927, 4.4756

Protanopia

19.7041, 21.4817, 9.2388

Deuteranopia

21.7002, 21.3178, 3.8352



Tritanopia

40.0706, 21.0830, 1.9575

Trichromacy



Original Color

40.6380, 20.8927, 4.4756

Protanomaly

22.8957, 16.0675, 6.5972

Deuteranomaly

25.1627, 16.8814, 3.2987

Tritanomaly

40.0419, 20.8638, 2.4470

Monochromacy



Original Color

40.6380, 20.8927, 4.4756

Achromatopsia

7.8210, 8.2283, 8.9606

Achromatomaly

13.5991, 8.7130, 6.4339

CSS Examples

Text

The CSS property to change the color of the text to XYZ 40.6380, 20.8927, 4.4756 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, 46)` looks like.

```
.text, #text, p{  
    color:rgb(252, 0, 46)  
}
```

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, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 0, 46) }
```

Border

The CSS property to change the border of an element to XYZ 40.6380, 20.8927, 4.4756 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, 46) }
```


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

```
.border{ border-color:rgb(252, 0, 46) }
```

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, 46) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 0, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(252, 0, 46);  
box-shadow:4px 4px 4px 4px rgb(252, 0, 46)  
}
```

Background

The CSS property to change the background color of an element to XYZ 40.6380, 20.8927, 4.4756 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, 46) }
```

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

```
.background{ background-color: rgb(252, 0,  
46) }
```

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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