

Converting Colors

XYZ(40.8658, 21.0026, 4.8232)

Have a look what the booklet for
XYZ(40.8658, 21.0026, 4.8232)
contains.

XYZ(40.6993, 20.9172, 4.7981)	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(40.6993, 20.9172,
4.7981)**

Conversions

Conversions Part 1

Format	Color
Hex	FC0031
RGB	252, 0, 49
RGB Percent	99%, 0%, 19%
CMY	0.0118, 0.9997, 0.8078
CMYK	0.00, 1.00, 0.81, 0.01
HSL	348°, 100%, 49%
HSV	348°, 100%, 99%
XYZ	40.6993, 20.9172, 4.7981
YIQ	80.9340, 134.4630, 68.6630

Conversions

Conversions Part 2

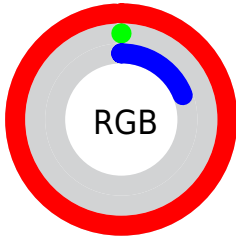
Format	Color
RYB	252, 0, 49
Decimal	16515121
CIELab	52.86, 80.06, 48.08
CIELCh	53, 93.388, 30.987
Yxy	20.9172, 0.6128, 0.3149
Android (android.graphics.Color)	4294705201 (0xFFFC0031)
YUV	80.9340, -15.7435, 150.0249
Hunter-Lab	45.7353, 78.8081, 25.7946

Details

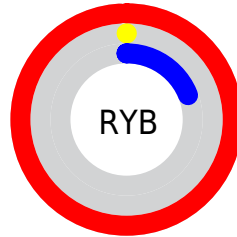
The XYZ color **40.6993, 20.9172, 4.7981** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **45.5984, 73.9357, 68.4090**, and the grayscale version is **7.8269, 8.2345, 8.9673**.

A 20% lighter version of the original color is **47.5342, 30.4703, 14.4424**, and **20.0350, 10.3252, 1.0806** is the 20% darker color. If you saturate the color by 10%, you get **40.6979, 20.9166, 4.7921**, and if you desaturate by 10%, it is **41.5817, 21.8356, 7.7032**.

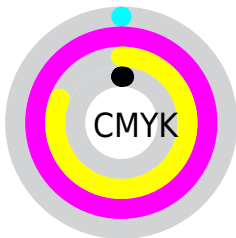
Distribution



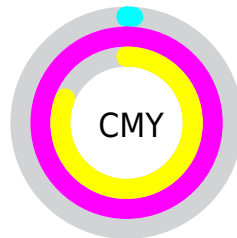
- Red (99%)
- Green (0%)
- Blue (19%)



- 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 40.6993, 20.9172, 4.7981 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 40.6993, 20.9172, 4.7981 by changing the saturation by 10% instead.


 40.6993, 20.9172,
4.7981


 40.6993, 20.9172,
4.7981


340.1464,
256.8381, 156.7214


 28.2708, 13.0635,
2.0726


 75.5048, 44.9497,
15.8122

 18.6714, 7.4723,
0.5994


 98.6126, 61.8973,
24.9379


 11.5357, 3.7592,
0.0000


 126.0108, 82.6449,
37.0341

 6.4983, 1.5398,
0.0000

 158.0648,
107.5770, 52.5193

 3.1939, 0.3165,
0.0000

 195.1400,
137.0780, 71.8121

 1.2571, 0.0000,
0.0000

 237.6018,

 0.1508, 0.0000,

171.5323, 95.3310

0.0000

285.8155,
211.3242, 123.4946

■ 0.0000, 0.0000,
0.0000

■ 40.6993, 20.9172,
4.7981

■ 40.6993, 20.9172,
4.7981

■ 40.6979, 20.9166,
4.7921

■ 41.5817, 21.8356,
7.7032

■ 43.1343, 23.7483,
11.8968

■ 45.5161, 26.9425,
17.5295

■ 48.8296, 31.5946,
24.7221

■ 53.1617, 37.8533,
33.5818

■ 58.5890, 45.8485,
44.2061

■ 65.1809, 55.6972,
56.6850

■ 73.0006, 67.5057,
71.1021

■ 82.1071, 81.3727,
87.5357

Harmonies

Analogous

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



45.1669, 20.9172, 21.8624



40.6993, 20.9172, 4.7981



30.4429, 20.9172, 0.6619

Triad

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



40.6993, 20.9172, 4.7981



7.5713, 20.9172, 5.3882



20.2060, 20.9172, 129.8576

Complementary

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



40.6993, 20.9172, 4.7981



45.5984, 73.9357, 68.4090

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.



12.0975, 20.9172, 109.5215



40.6993, 20.9172, 4.7981



6.4015, 20.9172, 23.7132

Square

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



40.6993, 20.9172, 4.7981



11.7001, 20.9172, 0.7743



7.7424, 20.9172, 63.1640



31.1924, 20.9172, 106.9063

Rectangle

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



40.6993, 20.9172, 4.7981



22.9686, 20.9172, 0.0000



7.7424, 20.9172, 63.1640



17.0836, 20.9172, 127.7761

Sweetspot

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



40.6998, 20.9185, 4.7984



66.9258, 57.1664, 58.1690



41.8238, 19.5323, 93.6606



13.6817, 11.2719, 11.2428



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.



40.6998, 20.9185, 4.7984



41.8056, 21.4862, 4.9085



42.7052, 25.8159, 2.7341



17.3824, 17.2803, 18.6033



21.2404, 10.9119, 2.7084



2.0025, 1.0247, 0.4365

Inverse Universe

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



40.6998, 20.9185, 4.7984



41.8056, 21.4862, 4.9085



33.1792, 38.2442, 97.7280



17.3824, 17.2803, 18.6033



21.2404, 10.9119, 2.7084



2.0025, 1.0247, 0.4365

Previews

White Background



This preview shows how the XYZ color 40.6993, 20.9172, 4.7981 looks on a white background.

Color Contrast Check

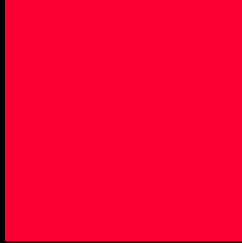
Large Text (above 18pt) WCAG AA ✓ Pass

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 40.6993, 20.9172, 4.7981 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 40.6993, 20.9172, 4.7981

Background



This preview shows how black text looks on a background with the XYZ color 40.6993, 20.9172, 4.7981.



This preview shows how white text looks on a background with the XYZ color 40.6993, 20.9172,

4.7981.

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

40.6993, 20.9172, 4.7981

Protanopia

19.8389, 21.5356, 9.9486

Deuteranopia

21.7571, 21.3405, 4.1348



Tritanopia

40.0706, 21.0830, 1.9575

Trichromacy



Original Color

40.6993, 20.9172, 4.7981

Protanomaly

22.9819, 16.1020, 7.0510

Deuteranomaly

25.2204, 16.9045, 3.6027

Tritanomaly

40.0499, 20.8670, 2.4891

Monochromacy



Original Color

40.6993, 20.9172, 4.7981

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 40.6993, 20.9172, 4.7981 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, 49)` looks like.

```
.text, #text, p{  
    color:rgb(252, 0, 49)  
}
```

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, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(252, 0, 49) }
```

Border

The CSS property to change the border of an element to XYZ 40.6993, 20.9172, 4.7981 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, 49) }
```


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

```
.border{ border-color:rgb(252, 0, 49) }
```

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, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(252, 0, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(252, 0, 49);  
box-shadow:4px 4px 4px 4px rgb(252, 0, 49)  
}
```

Background

The CSS property to change the background color of an element to XYZ 40.6993, 20.9172, 4.7981 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, 49) }
```

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

```
.background{ background-color: rgb(252, 0,  
49) }
```

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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