

# Converting Colors

XYZ(40.3863, 20.7046, 7.0975)

Have a look what the booklet for  
XYZ(40.3863, 20.7046, 7.0975)  
contains.

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# Color

**XYZ(40.4077, 20.7173,  
7.0234)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FA0042
RGB	250, 0, 66
RGB Percent	98%, 0%, 26%
CMY	0.0196, 0.9997, 0.7412
CMYK	0.00, 1.00, 0.74, 0.02
HSL	344°, 100%, 49%
HSV	344°, 100%, 98%
XYZ	40.4077, 20.7173, 7.0234
YIQ	82.2740, 127.8140, 73.5260

# Conversions

## Conversions Part 2

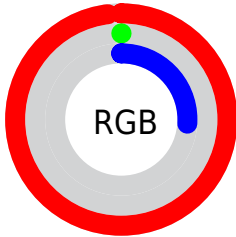
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	250, 0, 66
Decimal	16384066
CIE <sub>Lab</sub>	52.64, 80.11, 38.13
CIE <sub>LCh</sub>	53, 88.720, 25.456
Yxy	20.7173, 0.5929, 0.3040
Android (android.graphics.Color)	4294574146 (0xFFFA0042)
YUV	82.2740, -8.0231, 147.0957
Hunter-Lab	45.5163, 78.8124, 22.7126

# Details

The XYZ color **40.4077, 20.7173, 7.0234** 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 **42.8446, 71.8345, 56.9895**, and the grayscale version is **8.0798, 8.5006, 9.2571**.

A 20% lighter version of the original color is **48.4601, 30.8406, 19.3183**, and **19.9320, 10.2563, 1.7933** is the 20% darker color. If you saturate the color by 10%, you get **40.4061, 20.7166, 7.0161**, and if you desaturate by 10%, it is **41.3892, 21.6683, 10.4719**.

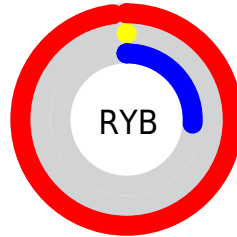
# Distribution



Red (98%)

Green (0%)

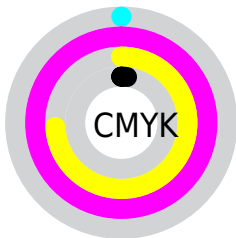
Blue (26%)



Red (98%)

Yellow (0%)

Blue (26%)

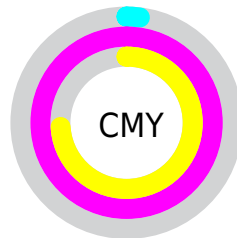


Cyan (0%)

Magenta (100%)

Yellow (74%)

Black (2%)



Cyan (2%)

Magenta (100%)

Yellow (74%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.4077, 20.7173, 7.0234 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 40.4077, 20.7173, 7.0234 by changing the saturation by 10% instead.




 40.4077, 20.7173,  
7.0234


 40.4077, 20.7173,  
7.0234


338.9440,  
255.7723, 177.4963


 28.0422, 12.9175,  
3.3981


 75.0643, 44.6166,  
20.5339

 18.4981, 7.3718,  
1.3013


 98.0862, 61.4848,  
31.2562


 11.4100, 3.6957,  
0.0629


 125.3909, 82.1447,  
45.1813

 6.4126, 1.5048,  
0.0000

 157.3437,  
106.9806, 62.7276

 3.1406, 0.2921,  
0.0000

 194.3101,  
136.3769, 84.3137

 1.2286, 0.0000,  
0.0000

 236.6554,

 0.1287, 0.0000,

170.7181, 110.3581

0.0000

284.7449,  
210.3884, 141.2795

■ 0.0000, 0.0000,  
0.0000

■ 40.4077, 20.7173,  
7.0234

■ 40.4077, 20.7173,  
7.0234

■ 40.4061, 20.7166,  
7.0161

■ 41.3892, 21.6683,  
10.4719

■ 43.0061, 23.5860,  
15.0679

■ 45.4089, 26.7505,  
20.9282

■ 48.6930, 31.3328,  
28.1453

■ 52.9394, 37.4768,  
36.8020

■ 58.2196, 45.3086,  
46.9738

■ 64.5980, 54.9413,  
58.7308

■ 72.1336, 66.4783,  
72.1387

■ 80.8813, 80.0148,  
87.2592

# Harmonies

## Analogous

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



43.1550, 20.7173, 26.8206



40.4077, 20.7173, 7.0234



31.5410, 20.7173, 1.2623

# Triad

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



40.4077, 20.7173, 7.0234



8.4072, 20.7173, 4.2861



18.3208, 20.7173, 120.3422

# Complementary

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



40.4077, 20.7173, 7.0234



42.8446, 71.8345, 56.9895

# 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.



11.2575, 20.7173, 95.4625



40.4077, 20.7173, 7.0234



6.7850, 20.7173, 18.7721

# Square

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



40.4077, 20.7173, 7.0234



13.0164, 20.7173, 0.7446



7.6362, 20.7173, 52.1448



28.3287, 20.7173, 106.3698



# Rectangle

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



40.4077, 20.7173, 7.0234



24.4832, 20.7173, 0.3412



7.6362, 20.7173, 52.1448



15.5692, 20.7173, 115.9206

# Sweetspot

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



40.4082, 20.7186, 7.0237



67.5319, 57.4089, 61.3609



36.8677, 17.0137, 91.7827



13.8216, 11.3279, 11.9794



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.



40.4082, 20.7186, 7.0237



42.2613, 21.6685, 7.3081



40.9569, 23.3888, 2.3577



17.4326, 17.3004, 18.8678



21.4829, 11.0089, 3.9856



2.0314, 1.0363, 0.5889



# Inverse Universe

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



40.4082, 20.7186, 7.0237



42.2613, 21.6685, 7.3081



36.0357, 44.4619, 97.1246



17.4326, 17.3004, 18.8678



21.4829, 11.0089, 3.9856



2.0314, 1.0363, 0.5889



# Previews

## White Background



This preview shows how the XYZ color 40.4077, 20.7173, 7.0234 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

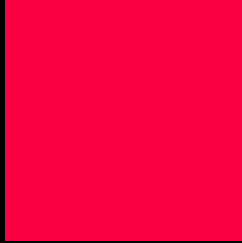
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.4077, 20.7173, 7.0234 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 40.4077, 20.7173, 7.0234**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.4077, 20.7173, 7.0234.



This preview shows how white text looks on a background with the XYZ color 40.4077, 20.7173,



# 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

40.4077, 20.7173, 7.0234

### Protanopia

19.8332, 21.2305, 14.8570

### Deuteranopia

21.5805, 21.2009, 6.3229



## Tritanopia

39.5764, 20.9706, 2.5779

# Trichromacy



## Original Color

40.4077, 20.7173, 7.0234

## Protanomaly

22.7942, 15.9201, 10.8883

## Deuteranomaly

24.9035, 16.6896, 5.9118

## Tritanomaly

39.5858, 20.6680, 3.5720

# Monochromacy



## Original Color

40.4077, 20.7173, 7.0234

## Achromatopsia

8.0200, 8.4376, 9.1886

## Achromatomaly

13.8602, 8.8174, 7.8089

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.4077, 20.7173, 7.0234 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(250, 0, 66)` looks like.

```
.text, #text, p{  
    color:rgb(250, 0, 66)  
}
```

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(250, 0, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 0, 66) }
```

## Border

The CSS property to change the border of an element to XYZ 40.4077, 20.7173, 7.0234 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(250, 0, 66) }
```



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

```
.border{ border-color:rgb(250, 0, 66) }
```

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

Here you see how a box with a 4 pixel rgb(250, 0, 66) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 0, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 0, 66);  
box-shadow:4px 4px 4px 4px rgb(250, 0, 66)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 40.4077, 20.7173, 7.0234 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 0, 66) }
```

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

```
.background{ background-color: rgb(250, 0,  
66) }
```

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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