

# Converting Colors

XYZ(40.7520, 20.5450, 3.9337)

Have a look what the booklet for  
XYZ(40.7520, 20.5450, 3.9337)  
contains.

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# Color

**XYZ(40.9083, 21.0427,  
4.0034)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FD0029
RGB	253, 0, 41
RGB Percent	99%, 0%, 16%
CMY	0.0078, 0.9997, 0.8392
CMYK	0.00, 1.00, 0.84, 0.01
HSL	350°, 100%, 50%
HSV	350°, 100%, 99%
XYZ	40.9083, 21.0427, 4.0034
YIQ	80.3210, 137.6270, 66.3870

# Conversions

## Conversions Part 2

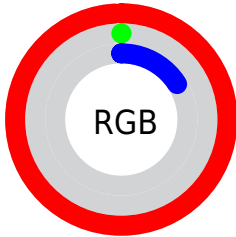
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	253, 0, 41
Decimal	16580649
CIE <sub>Lab</sub>	53.00, 80.11, 52.45
CIE <sub>LCh</sub>	53, 95.757, 33.215
Yxy	21.0427, 0.6203, 0.3190
Android (android.graphics.Color)	4294770729 (0xFFFD0029)
YUV	80.3210, -19.3853, 151.4395
Hunter-Lab	45.8723, 78.9073, 26.9362

# Details

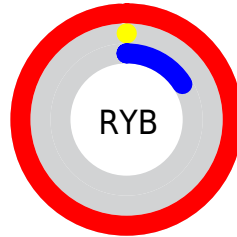
The XYZ color **40.9083, 21.0427, 4.0034** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **47.0176, 75.0073, 74.3294**, and the grayscale version is **7.7125, 8.1141, 8.8363**.

A 20% lighter version of the original color is **47.2761, 30.5140, 12.6306**, and **20.2497, 10.4391, 0.9477** is the 20% darker color. If you saturate the color by 10%, you get **40.9071, 21.0422, 3.9984**, and if you desaturate by 10%, it is **41.7385, 21.9436, 6.6228**.

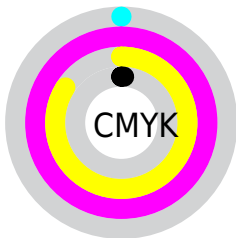
# Distribution



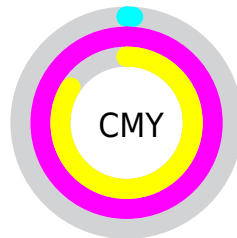
- Red (99%)
- Green (0%)
- Blue (16%)



- Red (99%)
- Yellow (0%)
- Blue (16%)



- Cyan (0%)
- Magenta (100%)
- Yellow (84%)
- Black (1%)




- Cyan (1%)
- Magenta (100%)
- Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.9083, 21.0427, 4.0034 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 40.9083, 21.0427, 4.0034 by changing the saturation by 10% instead.





 40.9083, 21.0427,  
4.0034


 40.9083, 21.0427,  
4.0034


341.0063,  
257.5053, 148.2632


 28.4348, 13.1552,  
1.6272


 75.8203, 45.1586,  
14.0176

 18.7958, 7.5355,  
0.3101


 98.9894, 62.1558,  
22.4927

 11.6259, 3.7992,  
0.0000


 126.4545, 82.9583,  
33.8378

 6.5599, 1.5619,  
0.0000

 158.5809,  
107.9506, 48.4716

 3.2323, 0.3317,  
0.0000

 195.7339,  
137.5171, 66.8124

 1.2778, 0.0000,  
0.0000

 238.2789,

 0.1665, 0.0000,

172.0421, 89.2789

0.0000

286.5813,  
211.9101, 116.2897

■ 0.0000, 0.0000,  
0.0000

■ 40.9083, 21.0427,  
4.0034

■ 40.9083, 21.0427,  
4.0034

■ 40.9071, 21.0422,  
3.9984

■ 41.7385, 21.9436,  
6.6228

■ 43.2543, 23.8519,  
10.5913

■ 45.6200, 27.0587,  
16.0800

■ 48.9417, 31.7432,  
23.2261

■ 53.3097, 38.0566,  
32.1510

■ 58.8037, 46.1311,  
42.9645

■ 65.4955, 56.0852,  
55.7674

■ 73.4508, 68.0274,  
70.6533

■ 82.7306, 82.0577,  
87.7098

# Harmonies

## Analogous

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



46.1549, 21.0427, 19.9467



40.9083, 21.0427, 4.0034



30.0309, 21.0427, 0.4118

# Triad

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



40.9083, 21.0427, 4.0034



7.2362, 21.0427, 5.9292



21.1037, 21.0427, 134.4456

# Complementary

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



40.9083, 21.0427, 4.0034



47.0176, 75.0073, 74.3294

# 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.



12.4965, 21.0427, 116.2994



40.9083, 21.0427, 4.0034



6.2479, 21.0427, 26.1574

# Square

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



40.9083, 21.0427, 4.0034



11.1744, 21.0427, 0.7873



7.8005, 21.0427, 68.5492



32.5597, 21.0427, 107.3726



# Rectangle

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



40.9083, 21.0427, 4.0034



22.3708, 21.0427, 0.0000



7.8005, 21.0427, 68.5492



17.8038, 21.0427, 133.4708

# Sweetspot

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



40.9087, 21.0441, 4.0037



66.6509, 57.0565, 56.7217



44.5494, 20.9190, 94.6177



13.6186, 11.2467, 10.9105



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.



40.9087, 21.0441, 4.0037



41.6450, 21.4220, 4.0625



43.7078, 27.2820, 2.9642



18.1292, 18.0350, 19.2978



21.7955, 11.2075, 2.3075



2.1547, 1.1042, 0.3959



# Inverse Universe

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



40.9087, 21.0441, 4.0037



41.6450, 21.4220, 4.0625



31.8603, 35.3522, 98.0724



18.1292, 18.0350, 19.2978



21.7955, 11.2075, 2.3075



2.1547, 1.1042, 0.3959



# Previews

## White Background



This preview shows how the XYZ color 40.9083, 21.0427, 4.0034 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 40.9083, 21.0427, 4.0034 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 40.9083, 21.0427, 4.0034**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.9083, 21.0427, 4.0034.



This preview shows how white text looks on a background with the XYZ color 40.9083, 21.0427,



# 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

40.9083, 21.0427, 4.0034

### Protanopia

19.6870, 21.4944, 8.2655

### Deuteranopia

21.7870, 21.3758, 3.2361



## Tritanopia

40.4513, 21.3082, 1.9809

# Trichromacy



## Original Color

40.9083, 21.0427, 4.0034

## Protanomaly

22.9724, 16.1254, 5.7726

## Deuteranomaly

25.2949, 16.9640, 2.6507

## Tritanomaly

40.4019, 21.0716, 2.3897

# Monochromacy



## Original Color

40.9083, 21.0427, 4.0034

## Achromatopsia

7.6249, 8.0220, 8.7359

## Achromatomaly

13.4949, 8.6006, 6.1031

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.9083, 21.0427, 4.0034 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(253, 0, 41)` looks like.

```
.text, #text, p{  
    color:rgb(253, 0, 41)  
}
```

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(253, 0, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(253, 0, 41) }
```

## Border

The CSS property to change the border of an element to XYZ 40.9083, 21.0427, 4.0034 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(253, 0, 41) }
```



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

```
.border{ border-color:rgb(253, 0, 41) }
```

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

Here you see how a box with a 4 pixel rgb(253, 0, 41) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(253, 0, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(253, 0, 41);  
box-shadow:4px 4px 4px 4px rgb(253, 0, 41)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 40.9083, 21.0427, 4.0034 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(253, 0, 41) }
```

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

```
.background{ background-color: rgb(253, 0,  
41) }
```

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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