

# Converting Colors

XYZ(41.6482, 21.6004, 3.5334)

Have a look what the booklet for  
XYZ(41.6482, 21.6004, 3.5334)  
contains.

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# Color

**XYZ(41.6519, 21.5984,  
3.5637)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF0A23
RGB	255, 10, 35
RGB Percent	100%, 4%, 14%
CMY	0.0000, 0.9605, 0.8627
CMYK	0.00, 0.96, 0.86, 0.00
HSL	354°, 100%, 52%
HSV	354°, 96%, 100%
XYZ	41.6519, 21.5984, 3.5637
YIQ	86.1050, 137.9950, 59.7150

# Conversions

## Conversions Part 2

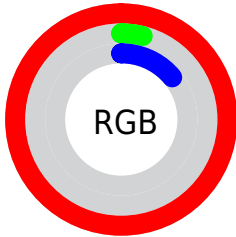
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 10, 35
Decimal	16714275
CIE Lab	53.60, 79.79, 56.02
CIE LCh	54, 97.493, 35.073
Yxy	21.5984, 0.6234, 0.3233
Android (android.graphics.Color)	4294904355 (0xFFFF0A23)
YUV	86.1050, -25.1948, 148.1209
Hunter-Lab	46.4741, 78.6491, 27.9854

# Details

The XYZ color **41.6519, 21.5984, 3.5637** 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 **50.1783, 77.3015, 87.1894**, and the grayscale version is **8.9071, 9.3710, 10.2050**.

A 20% lighter version of the original color is **47.2632, 30.8082, 11.6391**, and **20.7390, 10.6914, 0.9706** is the 20% darker color. If you saturate the color by 10%, you get **41.4256, 21.3342, 2.9092**, and if you desaturate by 10%, it is **42.6189, 22.8002, 6.1449**.

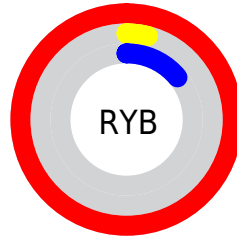
# Distribution



Red (100%)

Green (4%)

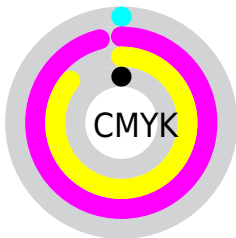
Blue (14%)



Red (100%)

Yellow (4%)

Blue (14%)

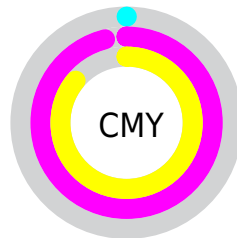


Cyan (0%)

Magenta (96%)

Yellow (86%)

Black (0%)



Cyan (0%)

Magenta (96%)


Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.6519, 21.5984, 3.5637 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 41.6519, 21.5984, 3.5637 by changing the saturation by 10% instead.




 41.6519, 21.5984,  
3.5637


 41.6519, 21.5984,  
3.5637


344.0541,  
260.4418, 143.2449


 29.0187, 13.5621,  
1.3892


 76.9410, 46.0813,  
12.9903


 19.2393, 7.8167,  
0.1333


 100.3276, 63.2968,  
21.0795

 11.9484, 3.9779,  
0.0000


 128.0295, 84.3407,  
31.9773

 6.7805, 1.6612,  
0.0000

 160.4119,  
109.5976, 46.1023

 3.3703, 0.3984,  
0.0000

 197.8402,  
139.4517, 63.8731


 1.3525, 0.0000,  
0.0000

 240.6797,


 0.2220, 0.0000,


174.2875, 85.7080


0.0000


 289.2959,  
214.4894, 112.0258


 0.0000, 0.0000,  
0.0000


 41.6519, 21.5984,  
3.5637


 41.6519, 21.5984,  
3.5637


 41.4256, 21.3342,  
2.9092

 42.6189, 22.8002,  
6.1449

 44.3902, 25.1960,  
10.2708

 47.0973, 29.0004,  
16.1359

 50.8474, 34.3859,  
23.9055

 55.7331, 41.5001,  
33.7257

■ 61.8366, 50.4738,  
45.7281

■ 69.2325, 61.4251,  
60.0334

■ 77.9895, 74.4623,  
76.7534

■ 88.1711, 89.6858,  
95.9924

# Harmonies

## Analogous

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



47.6147, 21.5984, 18.8036



41.6519, 21.5984, 3.5637



30.1721, 21.5984, 0.2796

# Triad

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



41.6519, 21.5984, 3.5637



7.2021, 21.5984, 6.6869



22.3499, 21.5984, 139.2839

# Complementary

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



41.6519, 21.5984, 3.5637



50.1783, 77.3015, 87.1894

# 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.



13.1959, 21.5984, 123.2020



41.6519, 21.5984, 3.5637



6.3497, 21.5984, 28.9587

# Square

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



41.6519, 21.5984, 3.5637



11.0418, 21.5984, 0.8823



8.1188, 21.5984, 74.2248



34.3109, 21.5984, 108.5361



# Rectangle

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



41.6519, 21.5984, 3.5637



22.2959, 21.5984, 0.0000



8.1188, 21.5984, 74.2248



18.8573, 21.5984, 139.3257

# Sweetspot

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



41.6524, 21.5998, 3.5640



66.9135, 57.9839, 55.5691



49.6563, 23.6759, 96.5597



13.6482, 11.4129, 10.5900



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.



41.6524, 21.5998, 3.5640



41.4260, 21.3344, 2.9092



46.2411, 31.1744, 3.8692



18.0845, 18.0171, 19.0621



21.6704, 11.1574, 1.6486



2.1337, 1.0958, 0.2854



# Inverse Universe

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



41.6524, 21.5998, 3.5640



41.4260, 21.3344, 2.9092



30.9399, 32.8130, 99.3098



18.0845, 18.0171, 19.0621



21.6704, 11.1574, 1.6486



2.1337, 1.0958, 0.2854



# Previews

## White Background



This preview shows how the XYZ color 41.6519, 21.5984, 3.5637 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 41.6519, 21.5984, 3.5637 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 41.6519, 21.5984, 3.5637**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.6519, 21.5984, 3.5637.



This preview shows how white text looks on a background with the XYZ color 41.6519, 21.5984,

3.5637.

# 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

41.6519, 21.5984, 3.5637

### Protanopia

19.9674, 21.8559, 7.3039

### Deuteranopia

22.0638, 21.7056, 3.0267



## Tritanopia

41.1794, 21.6836, 2.0150

# Trichromacy



## Original Color

41.6519, 21.5984, 3.5637

## Protanomaly

23.6707, 17.0762, 5.0661

## Deuteranomaly

25.7800, 17.6497, 2.4287

## Tritanomaly

41.1620, 21.5325, 2.3675

# Monochromacy



## Original Color

41.6519, 21.5984, 3.5637

## Achromatopsia

8.8453, 9.3059, 10.1341

## Achromatomaly

14.5588, 9.6344, 6.4025

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.6519, 21.5984, 3.5637 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(255, 10, 35)` looks like.

```
.text, #text, p{  
    color:rgb(255, 10, 35)  
}
```

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(255, 10, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 10, 35) }
```

## Border

The CSS property to change the border of an element to XYZ 41.6519, 21.5984, 3.5637 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(255, 10, 35) }
```



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

```
.border{ border-color:rgb(255, 10, 35) }
```

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

Here you see how a box with a 4 pixel rgb(255, 10, 35) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 10, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 10, 35);  
box-shadow:4px 4px 4px 4px rgb(255, 10,  
35) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.6519, 21.5984, 3.5637 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 10, 35) }
```

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

```
.background{ background-color: rgb(255, 10,  
35) }
```

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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