

# Converting Colors

XYZ(39.7590, 21.0464, 1.9668)

Have a look what the booklet for  
XYZ(39.7590, 21.0464, 1.9668)  
contains.

<b>XYZ(39.7937, 21.0628, 1.9682)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	30

# Color

**XYZ(39.7937, 21.0628,  
1.9682)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FA1A00
RGB	250, 26, 0
RGB Percent	98%, 10%, 0%
CMY	0.0196, 0.8979, 1.0000
CMYK	0.00, 0.90, 1.00, 0.02
HSL	6°, 100%, 49%
HSV	6°, 100%, 98%
XYZ	39.7937, 21.0628, 1.9682
YIQ	90.0120, 141.8500, 39.4020

# Conversions

## Conversions Part 2

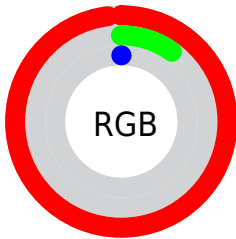
Format	Color
<a href="#">RYB</a>	<a href="#">250, 29, 0</a>
Decimal	<a href="#">16390656</a>
CIELab	<a href="#">53.02, 76.56, 66.51</a>
CIELCh	<a href="#">53, 101.412, 40.982</a>
Yxy	<a href="#">21.0628, 0.6334, 0.3353</a>
Android (android.graphics.Color)	<a href="#">4294580736 (0xFFFA1A00)</a>
YUV	<a href="#">90.0120, -44.3759, 140.3095</a>
Hunter-Lab	<a href="#">45.8942, 74.4579, 29.5833</a>

# Details

The XYZ color **39.7937, 21.0628, 1.9682** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **43.9018, 60.1954, 99.7466**, and the grayscale version is **9.7992, 10.3095, 11.2270**.

A 20% lighter version of the original color is **46.7808, 31.0785, 7.6708**, and **19.5284, 10.0673, 0.9139** is the 20% darker color. If you saturate the color by 10%, you get **39.7941, 21.0640, 1.9684**, and if you desaturate by 10%, it is **40.6741, 22.5434, 3.1274**.

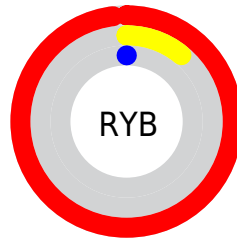
# Distribution



Red (98%)

Green (10%)

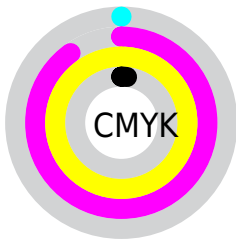
Blue (0%)



Red (98%)

Yellow (11%)

Blue (0%)

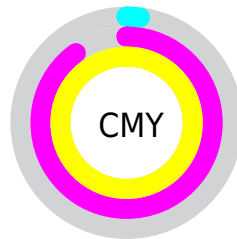


Cyan (0%)

Magenta (90%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (90%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 39.7937, 21.0628, 1.9682 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 39.7937, 21.0628, 1.9682 by changing the saturation by 10% instead.





 39.7937, 21.0628,  
1.9682


 39.7937, 21.0628,  
1.9682


 336.4026,  
257.6121, 121.8810


 27.5612, 13.1699,  
0.5356


 74.1356, 45.1920,  
8.9537


 18.1339, 7.5457,  
0.0000


 96.9757, 62.1972,  
15.4040


 11.1465, 3.8056,  
0.0000


 124.0825, 83.0085,  
24.3842

 6.2334, 1.5654,  
0.0000

 155.8212,  
108.0104, 36.3127

 3.0296, 0.3341,  
0.0000

 192.5572,  
137.5874, 51.6081

 1.1694, 0.0000,  
0.0000

 234.6559,

 0.0820, 0.0000,


172.1237, 70.6889


0.0000


 282.4826,  
212.0038, 93.9737


 0.0000, 0.0000,  
0.0000


 39.7937, 21.0628,  
1.9682


 39.7937, 21.0628,  
1.9682


 39.7941, 21.0640,  
1.9684

 40.6741, 22.5434,  
3.1274

 42.2421, 25.0388,  
5.6245

 44.6282, 28.7001,  
9.8446

 47.9262, 33.6477,  
16.0259

 52.2169, 39.9867,  
24.3689

■ 57.5720, 47.8116,  
35.0493

■ 64.0567, 57.2083,  
48.2246

■ 71.7307, 68.2563,  
64.0389

■ 80.6496, 81.0297,  
82.6251

# Harmonies

## Analogous

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



47.5940, 21.0628, 13.4792



39.7937, 21.0628, 1.9682



27.4596, 21.0628, 0.0000

# Triad

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



39.7937, 21.0628, 1.9682



6.2316, 21.0628, 8.6420



24.1785, 21.0628, 142.0790

# Complementary

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



39.7937, 21.0628, 1.9682



43.9018, 60.1954, 99.7466

# 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.



14.0617, 21.0628, 135.0255



39.7937, 21.0628, 1.9682



5.8968, 21.0628, 36.0153

# Square

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



39.7937, 21.0628, 1.9682



9.3707, 21.0628, 1.0404



8.2002, 21.0628, 86.8833



36.6719, 21.0628, 101.7816



# Rectangle

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



39.7937, 21.0628, 1.9682



19.6707, 21.0628, 0.0000



8.2002, 21.0628, 86.8833



20.3725, 21.0628, 145.7023

# Sweetspot

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



39.7941, 21.0641, 1.9685



66.9834, 59.8090, 50.3970



53.0145, 25.7601, 73.4117



13.6930, 11.8700, 9.4725



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.



39.7941, 21.0641, 1.9685



41.6218, 22.0235, 2.0573



50.3304, 42.1366, 5.4806



17.3900, 17.5159, 17.9268



21.1559, 11.2685, 1.0600

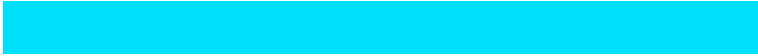


2.0060, 1.1368, 0.1137

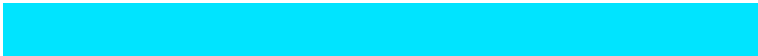


# Inverse Universe

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



43.9018, 60.1954, 99.7466



45.9164, 62.9528, 104.3388



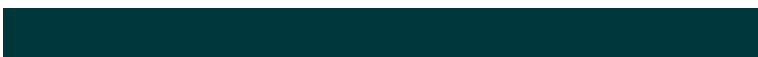
21.8125, 16.0167, 92.3835



17.6023, 19.2815, 22.1793



23.3501, 32.0558, 52.9303



2.2057, 3.0551, 4.9166



# Previews

## White Background



This preview shows how the XYZ color 39.7937, 21.0628, 1.9682 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 39.7937, 21.0628, 1.9682 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 39.7937, 21.0628, 1.9682**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.7937, 21.0628, 1.9682.



This preview shows how white text looks on a background with the XYZ color 39.7937, 21.0628,



# 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

39.7937, 21.0628, 1.9682

### Protanopia

19.3076, 21.3823, 4.4761

### Tritanopia

39.8582, 21.0537, 2.4150

# Trichromacy



## Original Color

39.7937, 21.0628, 1.9682

## Protanomaly

23.1588, 17.4778, 2.8148

## Tritanomaly

39.8268, 21.0412, 2.2494

# Monochromacy



## Original Color

39.7937, 21.0628, 1.9682

## Achromatopsia

9.7181, 10.2242, 11.1341

## Achromatomaly

14.9584, 10.6056, 5.1296

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.7937, 21.0628, 1.9682 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, 26, 0)` looks like.

```
.text, #text, p{  
    color:rgb(250, 26, 0)  
}
```

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, 26, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 26, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 39.7937, 21.0628, 1.9682 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, 26, 0) }
```

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

```
.border{ border-color:rgb(250, 26, 0) }
```

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

Here you see how a box with a 4 pixel rgb(250, 26, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 26, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 26, 0);  
box-shadow:4px 4px 4px 4px rgb(250, 26, 0)  
}
```



# Background

The CSS property to change the background color of an element to XYZ 39.7937, 21.0628, 1.9682 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 26, 0) }
```

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

```
.background{ background-color: rgb(250, 26,  
0) }
```

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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