

# Converting Colors

XYZ(41.4954, 21.7727, 2.0173)

Have a look what the booklet for  
XYZ(41.4954, 21.7727, 2.0173)  
contains.

<b>XYZ(41.4902, 21.7603, 2.0134)</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> .....	31

# Color

**XYZ(41.4902, 21.7603,  
2.0134)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF1400
RGB	255, 20, 0
RGB Percent	100%, 8%, 0%
CMY	0.0000, 0.9214, 1.0000
CMYK	0.00, 0.92, 1.00, 0.00
HSL	5°, 100%, 50%
HSV	5°, 100%, 100%
XYZ	41.4902, 21.7603, 2.0134
YIQ	87.9850, 146.4800, 43.6000

# Conversions

## Conversions Part 2

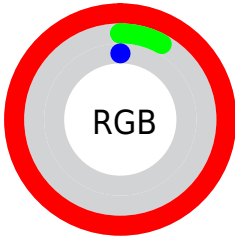
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 22, 0
Decimal	16716800
CIE <sub>Lab</sub>	53.77, 78.55, 67.41
CIE <sub>LCh</sub>	54, 103.509, 40.635
Yxy	21.7603, 0.6357, 0.3334
Android (android.graphics.Color)	4294906880 (0xFFFF1400)
YUV	87.9850, -43.3766, 146.4722
Hunter-Lab	46.6479, 77.1298, 30.0945

# Details

The XYZ color **41.4902, 21.7603, 2.0134** 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 **47.7463, 66.6127, 104.9482**, and the grayscale version is **9.3469, 9.8336, 10.7088**.

A 20% lighter version of the original color is **46.6831, 30.8831, 7.6382**, and **20.4935, 10.5648, 0.9591** is the 20% darker color. If you saturate the color by 10%, you get **41.4906, 21.7616, 2.0136**, and if you desaturate by 10%, it is **42.3043, 23.0994, 3.1773**.

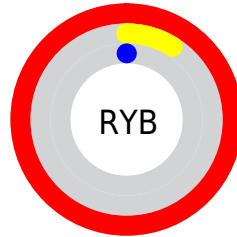
# Distribution



Red (100%)

Green (8%)

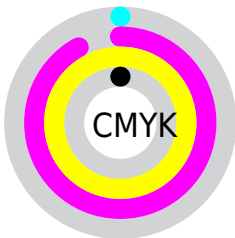
Blue (0%)



Red (100%)

Yellow (9%)

Blue (0%)

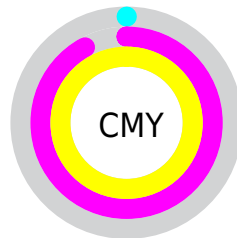


Cyan (0%)

Magenta (92%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (92%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 41.4902, 21.7603, 2.0134 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 41.4902, 21.7603, 2.0134 by changing the saturation by 10% instead.




 41.4902, 21.7603,  
2.0134


 41.4902, 21.7603,  
2.0134


 343.3929,  
261.2919, 122.5845


 28.8917, 13.6809,  
0.5635


 76.6975, 46.3495,  
9.0774


 19.1428, 7.8990,  
0.0000


 100.0370, 63.6281,  
15.5815


 11.8781, 4.0304,  
0.0000


 127.6875, 84.7418,  
24.6252

 6.7323, 1.6906,  
0.0000

 160.0144,  
110.0751, 36.6268

 3.3401, 0.4176,  
0.0000

 197.3830,  
140.0124, 52.0050

 1.3361, 0.0000,  
0.0000

 240.1588,


 0.2100, 0.0000,


174.9380, 71.1784


0.0000


 288.7069,  
215.2364, 94.5653


 0.0000, 0.0000,  
0.0000


 41.4902, 21.7603,  
2.0134


 41.4902, 21.7603,  
2.0134


 41.4906, 21.7616,  
2.0136

 42.3043, 23.0994,  
3.1773

 43.8465, 25.5173,  
5.7466

 46.2628, 29.1908,  
10.1254

 49.6584, 34.2598,  
16.5664

 54.1234, 40.8454,  
25.2819

■ 59.7377, 49.0559,  
36.4580

■ 66.5735, 58.9893,  
50.2613

■ 74.6972, 70.7360,  
66.8442

■ 84.1703, 84.3803,  
86.3472

# Harmonies

## Analogous

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



49.5717, 21.7603, 14.1037



41.4902, 21.7603, 2.0134



28.6027, 21.7603, 0.0000

# Triad

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



41.4902, 21.7603, 2.0134



6.3691, 21.7603, 8.6490



24.8792, 21.7603, 148.9665

# Complementary

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



41.4902, 21.7603, 2.0134



47.7463, 66.6127, 104.9482

# 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.



14.3787, 21.7603, 140.9076



41.4902, 21.7603, 2.0134



5.9931, 21.7603, 36.8675

# Square

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



41.4902, 21.7603, 2.0134



9.6594, 21.7603, 0.9902



8.3407, 21.7603, 90.0110



37.9401, 21.7603, 107.0102



# Rectangle

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



41.4902, 21.7603, 2.0134



20.4468, 21.7603, 0.0000



8.3407, 21.7603, 90.0110



20.9200, 21.7603, 152.5608

# Sweetspot

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



41.4907, 21.7617, 2.0137



66.5733, 58.9887, 50.2603



56.6723, 27.4329, 83.1966



13.5997, 11.6833, 9.4414



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.



41.4907, 21.7617, 2.0137



41.4909, 21.7618, 2.0136



51.2890, 41.3583, 5.2798



18.1240, 18.2163, 18.7052



21.7200, 11.4513, 1.0656



2.1525, 1.1904, 0.1163



# Inverse Universe

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



47.7463, 66.6127, 104.9482



47.7465, 66.6131, 104.9488



23.6800, 18.4802, 96.9261



18.4255, 20.2227, 23.1822



24.9998, 34.9093, 54.8551

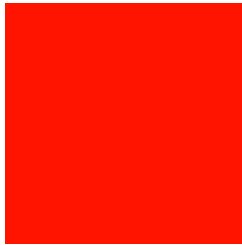


2.4689, 3.4686, 5.3526



# Previews

## White Background



This preview shows how the XYZ color 41.4902, 21.7603, 2.0134 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



## 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 41.4902, 21.7603, 2.0134**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.4902, 21.7603, 2.0134.



This preview shows how white text looks on a background with the XYZ color 41.4902, 21.7603,



# 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

41.4902, 21.7603, 2.0134

### Protanopia

19.9342, 22.0948, 4.6529

### Deuteranopia

22.1872, 21.9524, 3.0679



## Tritanopia

41.5464, 21.8728, 2.0321

# Trichromacy



## Original Color

41.4902, 21.7603, 2.0134

## Protanomaly

23.7991, 17.6808, 2.8678

## Deuteranomaly

26.0927, 18.3913, 2.1746

## Tritanomaly

41.5269, 21.8338, 2.0256

# Monochromacy



## Original Color

41.4902, 21.7603, 2.0134

## Achromatopsia

9.2757, 9.7587, 10.6273

## Achromatomaly

14.8857, 10.2301, 4.9314

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.4902, 21.7603, 2.0134 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, 20, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 20, 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(255, 20, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 20, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 41.4902, 21.7603, 2.0134 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, 20, 0) }
```



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

```
.border{ border-color:rgb(255, 20, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 20, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 20, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 20, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 20, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 41.4902, 21.7603, 2.0134 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 20, 0) }
```

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

```
.background{ background-color: rgb(255, 20,  
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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