

# Converting Colors

XYZ(42.1685, 22.8132, 3.1758)

Have a look what the booklet for  
XYZ(42.1685, 22.8132, 3.1758)  
contains.

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# Color

**XYZ(42.1520, 22.7856,  
3.1537)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF271A
RGB	255, 39, 26
RGB Percent	100%, 15%, 10%
CMY	0.0000, 0.8470, 0.8980
CMYK	0.00, 0.85, 0.90, 0.00
HSL	3°, 100%, 55%
HSV	3°, 90%, 100%
XYZ	42.1520, 22.7856, 3.1537
YIQ	102.1020, 132.9090, 41.7490

# Conversions

## Conversions Part 2

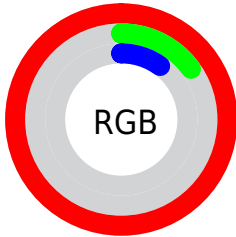
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 40, 26
Decimal	16721690
CIE <sub>Lab</sub>	54.85, 75.91, 60.74
CIE <sub>LCh</sub>	55, 97.213, 38.665
Yxy	22.7856, 0.6191, 0.3346
Android (android.graphics.Color)	4294911770 (0xFFFF271A)
YUV	102.1020, -37.5183, 134.0915
Hunter-Lab	47.7343, 74.0904, 29.4968

# Details

The XYZ color **42.1520, 22.7856, 3.1537** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark washed red. A complement of this color would be **50.2212, 70.9301, 105.6510**, and the grayscale version is **12.7297, 13.3926, 14.5845**.

A 20% lighter version of the original color is **48.0131, 32.7191, 10.6223**, and **20.7390, 10.6914, 0.9706** is the 20% darker color. If you saturate the color by 10%, you get **41.4129, 21.6019, 2.0013**, and if you desaturate by 10%, it is **43.6300, 25.0665, 5.7290**.

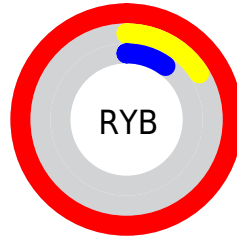
# Distribution



Red (100%)

Green (15%)

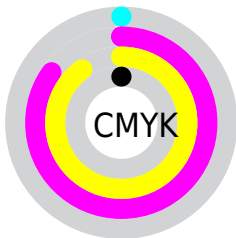
Blue (10%)



Red (100%)

Yellow (16%)

Blue (10%)

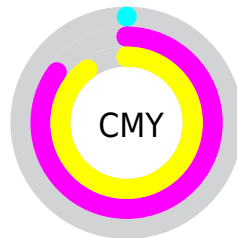


Cyan (0%)

Magenta (85%)

Yellow (90%)

Black (0%)



Cyan (0%)

Magenta (85%)


Yellow (90%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.1520, 22.7856, 3.1537 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 42.1520, 22.7856, 3.1537 by changing the saturation by 10% instead.





 42.1520, 22.7856,  
3.1537


 42.1520, 22.7856,  
3.1537

346.0936,  
266.6219, 138.2948

 29.4120, 14.4353,  
1.1736


 77.6933, 48.0410,  
12.0054


 19.5385, 8.4240,  
0.0000


 101.2254, 65.7150,  
19.7141

 12.1664, 4.3675,  
0.0000


 129.0854, 87.2655,  
30.1695

 6.9301, 1.8812,  
0.0000

 161.6388,  
113.0771, 43.7900

 3.4644, 0.5370,  
0.0000

 199.2510,  
143.5342, 60.9943


 1.4038, 0.0000,  
0.0000

 242.2873,


 0.2589, 0.0000,


179.0210, 82.2008


0.0000


 291.1130,  
219.9221, 107.8281


 0.0000, 0.0000,  
0.0000

 42.1520, 22.7856,  
3.1537


 42.1520, 22.7856,  
3.1537


 41.4129, 21.6019,  
2.0013


 43.6300, 25.0665,  
5.7290

 41.4036, 21.5876,  
1.9846

 45.9975, 28.6321,  
10.1236

 49.3663, 33.6358,  
16.5915

 53.8312, 40.2086,  
25.3463

 59.4761, 48.4666,  
36.5746

66.3766, 58.5148,  
50.4443

74.6022, 70.4499,  
67.1084

84.2170, 84.3616,  
86.7081

95.0497, 99.9999,  
108.9000

# Harmonies

## Analogous

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



49.2119, 22.7856, 16.9132



42.1520, 22.7856, 3.1537



30.0866, 22.7856, 0.2810

# Triad

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



42.1520, 22.7856, 3.1537



7.5401, 22.7856, 8.8972



24.9247, 22.7856, 141.5126

# Complementary

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



42.1520, 22.7856, 3.1537



50.2212, 70.9301, 105.6510

# 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.



14.9703, 22.7856, 130.9847



42.1520, 22.7856, 3.1537



6.9704, 22.7856, 34.8459

# Square

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



42.1520, 22.7856, 3.1537



11.1351, 22.7856, 1.3466



9.1896, 22.7856, 83.2636



37.3185, 22.7856, 105.7484



# Rectangle

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



42.1520, 22.7856, 3.1537



22.1425, 22.7856, 0.0000



9.1896, 22.7856, 83.2636



21.1787, 22.7856, 143.6300

# Sweetspot

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



42.1525, 22.7870, 3.1540



68.5465, 61.6668, 54.8281



57.8699, 28.5030, 87.6812



14.1092, 12.3819, 10.5990



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.



42.1525, 22.7870, 3.1540



41.4039, 21.5877, 1.9846



52.6463, 43.7747, 6.6520



18.0922, 18.1527, 18.6946



21.6670, 11.3453, 1.0479



2.1375, 1.1603, 0.1113



# Inverse Universe

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



50.2212, 70.9301, 105.6510



49.3572, 69.8344, 105.4857



26.3328, 23.1534, 97.6882



18.4612, 20.2940, 23.1941



25.8284, 36.5664, 55.1313



2.5407, 3.6121, 5.3766



# Previews

## White Background



This preview shows how the XYZ color 42.1520, 22.7856, 3.1537 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

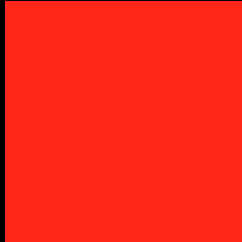
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.1520, 22.7856, 3.1537 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 42.1520, 22.7856, 3.1537**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.1520, 22.7856, 3.1537.



This preview shows how white text looks on a background with the XYZ color 42.1520, 22.7856,



# 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

42.1520, 22.7856, 3.1537

### Protanopia

20.7770, 22.9028, 5.9104

### Deuteranopia

23.0595, 22.7742, 3.1805



## Tritanopia

42.2365, 22.7676, 3.7586

# Trichromacy



## Original Color

42.1520, 22.7856, 3.1537

## Protanomaly

24.9836, 19.3210, 4.3320

## Deuteranomaly

27.3407, 20.0309, 2.6838

## Tritanomaly

42.1938, 22.7505, 3.5339

# Monochromacy



## Original Color

42.1520, 22.7856, 3.1537

## Achromatopsia

12.6291, 13.2868, 14.4694

## Achromatomaly

18.1326, 13.3555, 8.1007

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.1520, 22.7856, 3.1537 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, 39, 26)` looks like.

```
.text, #text, p{  
    color:rgb(255, 39, 26)  
}
```

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, 39, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 39, 26) }
```

## Border

The CSS property to change the border of an element to XYZ 42.1520, 22.7856, 3.1537 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, 39, 26) }
```



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

```
.border{ border-color:rgb(255, 39, 26) }
```

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

Here you see how a box with a 4 pixel rgb(255, 39, 26) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 39, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 39, 26);  
box-shadow:4px 4px 4px 4px rgb(255, 39,  
26) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.1520, 22.7856, 3.1537 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 39, 26) }
```

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

```
.background{ background-color: rgb(255, 39,  
26) }
```

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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