

# Converting Colors

XYZ(42.0933, 22.4782, 3.7201)

Have a look what the booklet for  
XYZ(42.0933, 22.4782, 3.7201)  
contains.

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# Color

**XYZ(42.0872, 22.4691,  
3.7088)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF2123
RGB	255, 33, 35
RGB Percent	100%, 13%, 14%
CMY	0.0000, 0.8705, 0.8627
CMYK	0.00, 0.87, 0.86, 0.00
HSL	359°, 100%, 56%
HSV	359°, 87%, 100%
XYZ	42.0872, 22.4691, 3.7088
YIQ	99.6060, 131.6700, 47.6860

# Conversions

## Conversions Part 2

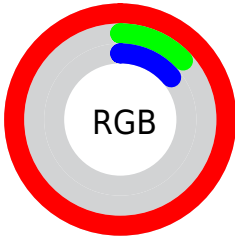
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 33, 35
Decimal	16720163
CIE <sub>Lab</sub>	54.52, 77.13, 56.76
CIE <sub>LCh</sub>	55, 95.762, 36.348
Yxy	22.4691, 0.6165, 0.3291
Android (android.graphics.Color)	4294910243 (0xFFFF2123)
YUV	99.6060, -31.8508, 136.2805
Hunter-Lab	47.4016, 75.5349, 28.5421

# Details

The XYZ color **42.0872, 22.4691, 3.7088** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **54.1220, 78.9368, 105.3361**, and the grayscale version is **12.0715, 12.7002, 13.8305**.

A 20% lighter version of the original color is **47.9554, 32.1926, 11.8699**, and **20.7390, 10.6914, 0.9706** is the 20% darker color. If you saturate the color by 10%, you get **41.3746, 21.4446, 2.2378**, and if you desaturate by 10%, it is **43.6024, 24.6687, 6.7765**.

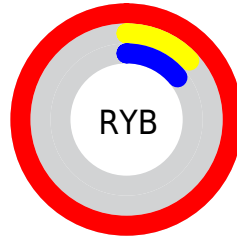
# Distribution



Red (100%)

Green (13%)

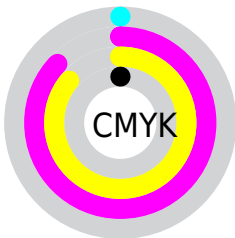
Blue (14%)



Red (100%)

Yellow (13%)

Blue (14%)

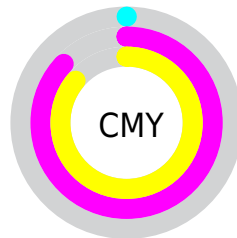


Cyan (0%)

Magenta (87%)

Yellow (86%)

Black (0%)



Cyan (0%)

Magenta (87%)


Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.0872, 22.4691, 3.7088 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 42.0872, 22.4691, 3.7088 by changing the saturation by 10% instead.





 42.0872, 22.4691,  
3.7088


 42.0872, 22.4691,  
3.7088


345.8298,  
264.9863, 144.9315


 29.3610, 14.2020,  
1.4670


 77.5959, 47.5201,  
13.3324

 19.4997, 8.2613,  
0.1932


 101.1091, 65.0728,  
21.5513

 12.1381, 4.2626,  
0.0000


 128.9487, 86.4895,  
32.5996

 6.9106, 1.8215,  
0.0000

 161.4800,  
112.1545, 46.8958

 3.4521, 0.5005,  
0.0000

 199.0685,  
142.4523, 64.8586


 1.3971, 0.0000,  
0.0000

 242.0793,


 0.2542, 0.0000,


177.7673, 86.9065


0.0000


 290.8780,  
218.4838, 113.4579


 0.0000, 0.0000,  
0.0000


 42.0872, 22.4691,  
3.7088


 42.0872, 22.4691,  
3.7088


 41.3746, 21.4446,  
2.2378


 43.6024, 24.6687,  
6.7765

 41.2520, 21.2648,  
1.9953

 46.0738, 28.2697,  
11.7370

 49.6243, 33.4541,  
18.8291

 54.3583, 40.3762,  
28.2561

 60.3679, 49.1715,  
40.1979

67.7360, 59.9624,  
54.8165

76.5385, 72.8608,  
72.2607

86.8458, 87.9704,  
92.6679

95.0496, 99.9998,  
108.9000

# Harmonies

## Analogous

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



48.3531, 22.4691, 18.6145



42.0872, 22.4691, 3.7088



30.5204, 22.4691, 0.4393

# Triad

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



42.0872, 22.4691, 3.7088



7.6898, 22.4691, 7.8300



23.6664, 22.4691, 138.6211

# Complementary

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



42.0872, 22.4691, 3.7088



54.1220, 78.9368, 105.3361

# 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.



14.2389, 22.4691, 124.8006



42.0872, 22.4691, 3.7088



6.9214, 22.4691, 31.4286

# Square

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



42.0872, 22.4691, 3.7088



11.4881, 22.4691, 1.1959



8.8754, 22.4691, 77.2062



35.6916, 22.4691, 106.8040



# Rectangle

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



42.0872, 22.4691, 3.7088



22.6680, 22.4691, 0.0000



8.8754, 22.4691, 77.2062



20.0960, 22.4691, 139.3756

# Sweetspot

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



42.0877, 22.4705, 3.7091



68.5898, 61.2129, 56.5087



58.4862, 28.8742, 97.0976



14.0897, 12.2359, 10.9226



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.



42.0877, 22.4705, 3.7091



41.2524, 21.2650, 1.9953



50.9387, 40.2181, 6.5191



18.0160, 17.9897, 18.7012



21.5581, 11.1125, 1.0574



2.1012, 1.0829, 0.1145



# Inverse Universe

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



42.0877, 22.4705, 3.7091



41.2524, 21.2650, 1.9953



29.2231, 28.6339, 98.5935



18.0160, 17.9897, 18.7012



21.5581, 11.1125, 1.0574



2.1012, 1.0829, 0.1145



# Previews

## White Background



This preview shows how the XYZ color 42.0872, 22.4691, 3.7088 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 42.0872, 22.4691, 3.7088**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.0872, 22.4691, 3.7088.



This preview shows how white text looks on a background with the XYZ color 42.0872, 22.4691,



# 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

42.0872, 22.4691, 3.7088

### Protanopia

20.7089, 22.6390, 7.1492

### Deuteranopia

22.7247, 22.4146, 3.1287



## Tritanopia

42.0338, 22.4928, 3.2885

# Trichromacy



## Original Color

42.0872, 22.4691, 3.7088

## Protanomaly

24.8963, 18.8453, 5.2311

## Deuteranomaly

27.1024, 19.5170, 2.7195

## Tritanomaly

42.0594, 22.5030, 3.4231

# Monochromacy



## Original Color

42.0872, 22.4691, 3.7088

## Achromatopsia

12.1130, 12.7438, 13.8780

## Achromatomaly

17.5992, 12.7586, 8.3726

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.0872, 22.4691, 3.7088 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, 33, 35)` looks like.

```
.text, #text, p{  
    color:rgb(255, 33, 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, 33, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 33, 35) }
```

## Border

The CSS property to change the border of an element to XYZ 42.0872, 22.4691, 3.7088 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, 33, 35) }
```



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

```
.border{ border-color:rgb(255, 33, 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, 33, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 33, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 33, 35);  
box-shadow:4px 4px 4px 4px rgb(255, 33,  
35) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.0872, 22.4691, 3.7088 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 33, 35) }
```

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

```
.background{ background-color: rgb(255, 33,  
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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