

# Converting Colors

XYZ(72.1670, 78.7477, 33.4024)

Have a look what the booklet for  
XYZ(72.1670, 78.7477, 33.4024)  
contains.

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# **Color**

**XYZ(72.2453, 78.7688,  
33.2260)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FBE684
RGB	251, 230, 132
RGB Percent	98%, 90%, 52%
CMY	0.0157, 0.0980, 0.4823
CMYK	0.00, 0.08, 0.47, 0.02
HSL	49°, 94%, 75%
HSV	49°, 47%, 98%
XYZ	72.2453, 78.7688, 33.2260
YIQ	225.1070, 43.9740, -26.0260

# Conversions

## Conversions Part 2

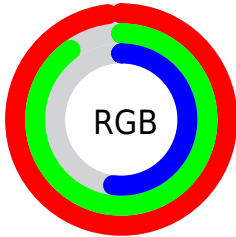
Format	Color
<a href="#">RYB</a>	<a href="#">158, 251, 132</a>
Decimal	<a href="#">16508548</a>
CIELab	<a href="#">91.13, -5.45, 50.06</a>
CIELCh	<a href="#">91, 50.354, 96.219</a>
Yxy	<a href="#">78.7688, 0.3921, 0.4275</a>
Android (android.graphics.Color)	<a href="#">4294698628</a> ( <a href="#">0xFFFFBE684</a> )
YUV	<a href="#">225.1070, -45.9018, 22.7082</a>
Hunter-Lab	<a href="#">88.7518, -10.0139, 39.9299</a>

# Details

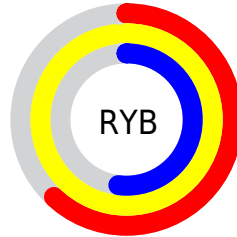
The XYZ color **72.2453, 78.7688, 33.2260** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **38.3193, 34.6519, 95.9353**, and the grayscale version is **71.9443, 75.6910, 82.4275**.

A 20% lighter version of the original color is **85.9696, 96.3679, 61.0835**, and **38.5162, 42.4456, 13.7522** is the 20% darker color. If you saturate the color by 10%, you get **69.5141, 75.7324, 24.8372**, and if you desaturate by 10%, it is **75.4248, 82.0404, 43.8044**.

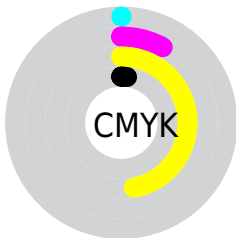
# Distribution



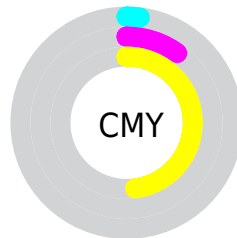
- Red (98%)
- Green (90%)
- Blue (52%)



- Red (62%)
- Yellow (98%)
- Blue (52%)



- Cyan (0%)
- Magenta (8%)
- Yellow (47%)
- Black (2%)




- Cyan (2%)
- Magenta (10%)
- Yellow (48%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 72.2453, 78.7688, 33.2260 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 72.2453, 78.7688, 33.2260 by changing the saturation by 10% instead.





 72.2453, 78.7688,  
33.2260

 72.2453, 78.7688,  
33.2260


457.5393,  
490.7739, 331.3301

 53.6453, 58.7057,  
22.0271


 121.4141,  
131.6333, 65.8483

 38.5477, 42.3763,  
13.6783


 152.7136,  
165.2036, 88.1087

 26.5872, 29.3960,  
7.7611


 188.9770,  
204.0450, 114.8935

 17.3984, 19.3806,  
3.8569

230.5696,  
248.5420, 146.6210

 10.6160, 11.9456,  
1.5472

277.8568,  
299.0790, 183.7099

 5.8746, 6.7067,  
0.2527

331.2039,

 2.8089, 3.2793,

356.0404, 226.5787

0.0000

390.9763,  
419.8106, 275.6459

■ 1.0535, 1.2792,  
0.0000

■ 0.0000, 0.1251,  
0.0000

■ 72.2453, 78.7688,  
33.2260

■ 72.2453, 78.7688,  
33.2260

■ 69.5141, 75.7324,  
24.8372

■ 75.4248, 82.0404,  
43.8044

■ 67.1952, 72.9078,  
18.4744

■ 79.0743, 85.5476,  
56.7106

■ 65.2560, 70.2843,  
13.9590

■ 83.2207, 89.3043,  
72.0770

■ 63.6560, 67.8456,  
11.0789

■ 87.8873, 93.3203,  
90.0247

■ 62.3424, 65.5700,  
9.5572

■ 92.6900, 97.4422,  
108.5307

■ 62.0283, 64.9988,  
9.2768

■ 93.5935, 99.2491,  
108.8318

# Harmonies

## Analogous

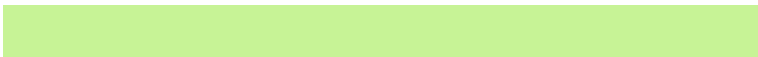
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



85.1841, 78.7688, 36.2594



72.2453, 78.7688, 33.2260



61.3081, 78.7688, 40.7105

# Triad

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



72.2453, 78.7688, 33.2260



56.7955, 78.7688, 134.2465



99.5907, 78.7688, 117.2734

# Complementary

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



72.2453, 78.7688, 33.2260



38.3193, 34.6519, 95.9353

# 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.



90.2916, 78.7688, 155.7130



72.2453, 78.7688, 33.2260



65.4192, 78.7688, 167.2979

# Square

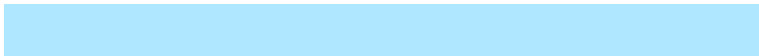
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



72.2453, 78.7688, 33.2260



53.0636, 78.7688, 93.5913



77.5522, 78.7688, 176.1010



101.9500, 78.7688, 78.3892

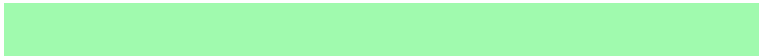


# Rectangle

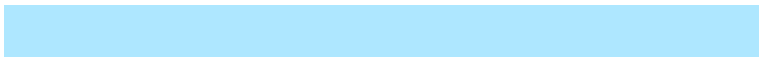
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



72.2453, 78.7688, 33.2260



56.2997, 78.7688, 52.3781



77.5522, 78.7688, 176.1010



97.1252, 78.7688, 130.9769

# Sweetspot

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



72.2472, 78.7725, 33.2276



87.8493, 93.9575, 80.7306



53.8528, 39.3395, 35.2478



18.5866, 19.9218, 16.4537



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

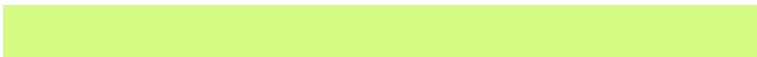
The Same Dimension uses a secret algorithm to generate beautiful new colors.



72.2472, 78.7725, 33.2276



72.1539, 78.6151, 26.0234



66.1948, 84.8537, 34.7204



18.4516, 19.6391, 18.2806



32.7017, 34.3600, 4.9086



3.0947, 3.3143, 0.4766



# Inverse Universe

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



38.3193, 34.6519, 95.9353



33.1417, 27.9222, 98.2505



42.1738, 31.9793, 95.2162



16.5306, 17.1380, 21.8220



9.7047, 4.7650, 48.3818



0.9651, 0.5738, 4.5031



# Previews

## White Background



This preview shows how the XYZ color 72.2453, 78.7688, 33.2260 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

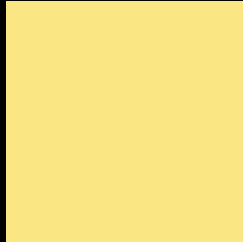
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 72.2453, 78.7688, 33.2260 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 ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 72.2453, 78.7688, 33.2260**

## **Background**



This preview shows how black text looks on a background with the XYZ color 72.2453, 78.7688, 33.2260.



This preview shows how white text looks on a background with the XYZ color 72.2453, 78.7688,



# 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

72.2453, 78.7688, 33.2260

### Protanopia

72.6066, 78.9550, 33.2429

### Deuteranopia

77.5692, 78.8720, 60.4257



## Tritanopia

81.9477, 78.9134, 88.7546

# Trichromacy



## Original Color

72.2453, 78.7688, 33.2260

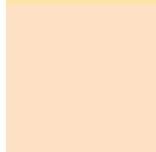
## Protanomaly

72.6066, 78.9550, 33.2429



## Deuteranomaly

75.5978, 78.9113, 49.2772



## Tritanomaly

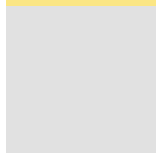
77.6067, 78.4134, 63.8683

# Monochromacy



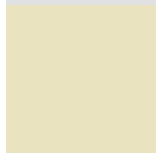
## Original Color

72.2453, 78.7688, 33.2260



## Achromatopsia

71.5672, 75.2942, 81.9954



## Achromatomaly

70.8047, 76.1922, 60.2650

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 72.2453, 78.7688, 33.2260 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(251, 230, 132)` looks like.

```
.text, #text, p{  
    color:rgb(251, 230, 132)  
}
```

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(251, 230, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(251, 230, 132) }
```

## Border

The CSS property to change the border of an element to XYZ 72.2453, 78.7688, 33.2260 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(251, 230, 132) }
```



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

```
.border{ border-color:rgb(251, 230, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(251, 230, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(251, 230, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(251, 230, 132);  
box-shadow:4px 4px 4px 4px rgb(251, 230,  
132) }
```

# Background

The CSS property to change the background color of an element to XYZ 72.2453, 78.7688, 33.2260 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(251, 230, 132) }
```

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

```
.background{ background-color: rgb(251,  
230, 132) }
```

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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