

# Converting Colors

XYZ(49.7444, 72.5438, 38.3023)

Have a look what the booklet for  
XYZ(49.7444, 72.5438, 38.3023)  
contains.

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# Color

**XYZ(49.7391, 72.6295,  
38.1854)**

# Conversions

## Conversions Part 1

Format	Color
Hex	96F391
RGB	150, 243, 145
RGB Percent	59%, 95%, 57%
CMY	0.4118, 0.0470, 0.4314
CMYK	0.38, 0.00, 0.40, 0.05
HSL	117°, 80%, 76%
HSV	117°, 40%, 95%
XYZ	49.7391, 72.6295, 38.1854
YIQ	204.0210, -23.9700, -50.1940

# Conversions

## Conversions Part 2

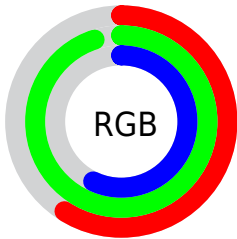
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">145, 243, 238</a>
Decimal	<a href="#">9892753</a>
CIELab	<a href="#">88.27, -46.52, 38.74</a>
CIELCh	<a href="#">88, 60.536, 140.215</a>
Yxy	<a href="#">72.6295, 0.3098, 0.4524</a>
Android (android.graphics.Color)	<a href="#">4288082833 (0xFF96F391)</a>
YUV	<a href="#">204.0210, -29.0974, -47.3764</a>
Hunter-Lab	<a href="#">85.2229, -44.9613, 33.0903</a>

# Details

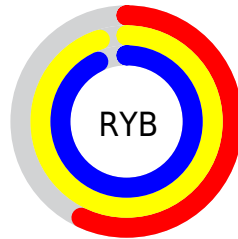
The XYZ color **49.7391, 72.6295, 38.1854** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **61.5662, 44.9012, 90.2197**, and the grayscale version is **57.5983, 60.5979, 65.9911**.

A 20% lighter version of the original color is **71.9175, 88.9555, 68.0233**, and **24.1508, 38.2878, 16.4733** is the 20% darker color. If you saturate the color by 10%, you get **44.2284, 69.9846, 29.1709**, and if you desaturate by 10%, it is **56.4893, 75.8713, 49.3528**.

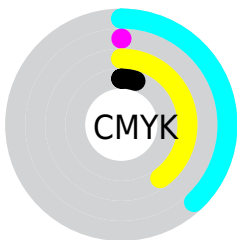
# Distribution



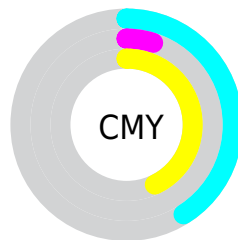
- Red (59%)
- Green (95%)
- Blue (57%)



- Red (57%)
- Yellow (95%)
- Blue (93%)



- Cyan (38%)
- Magenta (0%)
- Yellow (40%)
- Black (5%)



- Cyan (41%)
- Magenta (5%)
- Yellow (43%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7391, 72.6295, 38.1854 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 49.7391, 72.6295, 38.1854 by changing the saturation by 10% instead.



49.7391, 72.6295,  
38.1854

49.7391, 72.6295,  
38.1854

376.1137,  
469.7297, 353.7366

35.4231, 53.6731,  
25.8237

88.9823, 122.9511,  
73.5988

24.1570, 38.3403,  
16.4672

114.6403,  
155.0850, 97.4875

15.5755, 26.2469,  
9.6974

144.8095,  
192.3803, 126.0557

9.3132, 17.0085,  
5.0958

179.8555,  
235.2212, 159.7218

5.0048, 10.2405,  
2.2439

220.1436,  
283.9922, 198.9044

2.2848, 5.5587,  
0.6995


266.0391,


0.7869, 2.5787,


339.0777, 244.0221


0.0000


317.9073,  
400.8621, 295.4933


 0.0000, 0.9160,  
0.0000


 0.0000, 0.0000,  
0.0000


 49.7391, 72.6295,  
38.1854


 49.7391, 72.6295,  
38.1854


 44.2284, 69.9846,  
29.1709


 56.4893, 75.8713,  
49.3528


 39.8768, 67.8918,  
22.1663

 64.5422, 79.7336,  
62.7942

 36.6028, 66.3145,  
17.0190

 73.9632, 84.2496,  
78.6274

 34.3122, 65.2080,  
13.5528

 84.8120, 89.4478,  
96.9607

■ 32.8946, 64.5199,  
11.5570

■ 91.3420, 92.5840,  
107.6640

■ 32.2092, 64.1850,  
10.6914

# Harmonies

## Analogous

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



59.8352, 72.6295, 25.3089



49.7391, 72.6295, 38.1854



45.0312, 72.6295, 66.2668

# Triad

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



49.7391, 72.6295, 38.1854



64.3993, 72.6295, 186.8171



98.6556, 72.6295, 54.5642

# Complementary

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



49.7391, 72.6295, 38.1854



61.5662, 44.9012, 90.2197

# 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.



100.3302, 72.6295, 93.4494



49.7391, 72.6295, 38.1854



79.1263, 72.6295, 180.2290

# Square

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



49.7391, 72.6295, 38.1854



52.6769, 72.6295, 157.7246



92.7624, 72.6295, 142.0067



88.4642, 72.6295, 32.2073



# Rectangle

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



49.7391, 72.6295, 38.1854



45.0585, 72.6295, 94.1114



92.7624, 72.6295, 142.0067



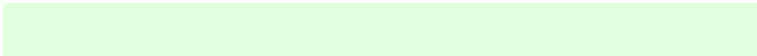
100.2835, 72.6295, 65.7430

# Sweetspot

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



49.7409, 72.6326, 38.1870



80.6206, 93.0859, 84.5240



72.2061, 81.3626, 38.6880



16.9499, 19.7775, 17.5762



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.



49.7409, 72.6326, 38.1870



50.5873, 78.6779, 34.5658



52.7496, 73.7320, 58.7296



16.3604, 18.5123, 17.5085



17.7094, 35.2423, 5.8691



1.5835, 3.1114, 0.5171



# Inverse Universe

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



61.5662, 44.9012, 90.2197



65.3633, 43.9809, 99.6519



57.5778, 43.5024, 60.3354



17.1252, 16.7227, 20.8678



26.9320, 12.8583, 47.6004

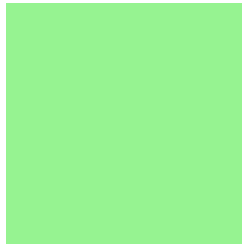


2.3922, 1.1431, 4.1848



# Previews

## White Background



This preview shows how the XYZ color 49.7391, 72.6295, 38.1854 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 49.7391, 72.6295, 38.1854 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

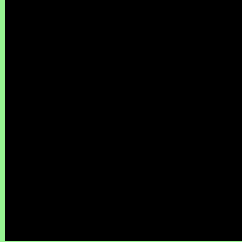
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 49.7391, 72.6295, 38.1854

## Background



This preview shows how black text looks on a background with the XYZ color 49.7391, 72.6295, 38.1854.



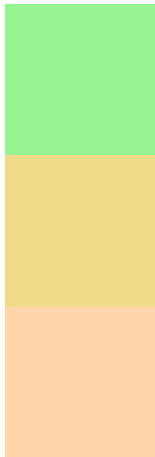
This preview shows how white text looks on a background with the XYZ color 49.7391, 72.6295,



# 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

49.7391, 72.6295, 38.1854

### Protanopia

65.9723, 71.4892, 33.6142

### Deuteranopia

72.1957, 71.7131, 47.5730



## Tritanopia

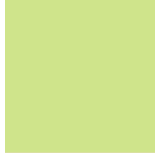
62.2524, 72.5374, 100.3426

# Trichromacy



## Original Color

49.7391, 72.6295, 38.1854



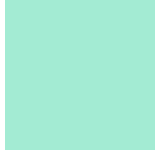
## Protanomaly

58.1357, 70.6163, 34.9923



## Deuteranomaly

61.6161, 70.6011, 43.6376



## Tritanomaly

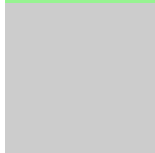
56.5705, 71.9063, 72.5258

# Monochromacy



## Original Color

49.7391, 72.6295, 38.1854



## Achromatopsia

57.3938, 60.3827, 65.7568



## Achromatomaly

53.3858, 63.7521, 54.2914

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7391, 72.6295, 38.1854 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(150, 243, 145)` looks like.

```
.text, #text, p{  
    color:rgb(150, 243, 145)  
}
```

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(150, 243, 145) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 243, 145) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7391, 72.6295, 38.1854 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(150, 243, 145) }
```



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

```
.border{ border-color:rgb(150, 243, 145) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 243, 145)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 243, 145); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 243, 145);  
box-shadow:4px 4px 4px 4px rgb(150, 243,  
145) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7391, 72.6295, 38.1854 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 243, 145) }
```

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

```
.background{ background-color: rgb(150,  
243, 145) }
```

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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