

# Converting Colors

XYZ(48.4953, 56.5552, 90.2858)

Have a look what the booklet for  
XYZ(48.4953, 56.5552, 90.2858)  
contains.

<b>XYZ(48.4524, 56.6621, 90.0445)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(48.4524, 56.6621,  
90.0445)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89D0EF
RGB	137, 208, 239
RGB Percent	54%, 82%, 94%
CMY	0.4627, 0.1843, 0.0627
CMYK	0.43, 0.13, 0.00, 0.06
HSL	198°, 76%, 74%
HSV	198°, 43%, 94%
XYZ	48.4524, 56.6621, 90.0445
YIQ	190.3050, -52.2670, -5.4110

# Conversions

## Conversions Part 2

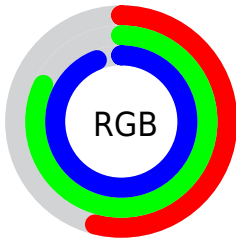
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	137, 179, 239
Decimal	9031919
CIE <sub>Lab</sub>	79.99, -14.33, -22.23
CIE <sub>LCh</sub>	80, 26.446, 237.198
Yxy	56.6621, 0.2483, 0.2903
Android (android.graphics.Color)	4287221999 (0xFF89D0EF)
YUV	190.3050, 24.0066, -46.7485
Hunter-Lab	75.2742, -16.8333, -18.2319

# Details

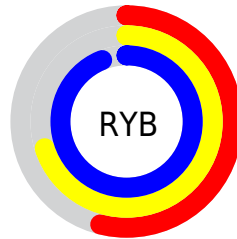
The XYZ color **48.4524, 56.6621, 90.0445** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **54.1158, 48.1634, 30.1129**, and the grayscale version is **49.0083, 51.5606, 56.1495**.

A 20% lighter version of the original color is **76.0581, 90.2093, 108.0112**, and **23.4111, 28.2356, 49.0159** is the 20% darker color. If you saturate the color by 10%, you get **43.2298, 51.4019, 89.3054**, and if you desaturate by 10%, it is **54.6274, 62.5362, 90.8539**.

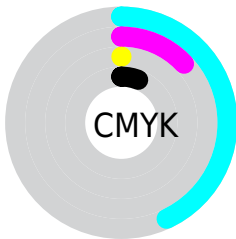
# Distribution



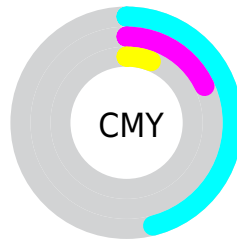
- Red (54%)
- Green (82%)
- Blue (94%)



- Red (54%)
- Yellow (70%)
- Blue (94%)



- Cyan (43%)
- Magenta (13%)
- Yellow (0%)
- Black (6%)




- Cyan (46%)
- Magenta (18%)
- Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.4524, 56.6621, 90.0445 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 48.4524, 56.6621, 90.0445 by changing the saturation by 10% instead.





 48.4524, 56.6621,  
90.0445


 48.4524, 56.6621,  
90.0445


371.1354,  
412.1819, 548.7494


 34.3980, 40.7340,  
67.4436


 87.0832, 99.9720,  
149.3363

 23.3639, 28.1113,  
48.9814

 112.3904,  
128.1226, 186.8642

 14.9846, 18.4096,  
34.2392

 142.1792,  
161.1161, 230.2050

 8.8948, 11.2444,  
22.7986

176.8150,  
199.3370, 279.7771

 4.7292, 6.2315,  
14.2410

216.6632,  
243.1696, 335.9990

 2.1224, 2.9864,  
8.1478

262.0891,

 0.7013, 1.1246,

292.9984, 399.2894

4.1005

313.4580,  
349.2077, 470.0667

■ 0.0000, 0.0000,  
1.6807

■ 0.0000, 0.0000,  
0.3474

■ 48.4524, 56.6621,  
90.0445

■ 48.4524, 56.6621,  
90.0445

■ 43.2298, 51.4019,  
89.3054

■ 54.6274, 62.5362,  
90.8539

■ 38.8951, 46.7170,  
88.6296

■ 61.8031, 69.0469,  
91.7324

■ 35.3842, 42.5739,  
88.0150

■ 70.0308, 76.2234,  
92.6839

■ 32.6208, 38.9318,  
87.4576

■ 79.3565, 84.0910,  
93.7110

■ 30.5133, 35.7416,  
86.9529

■ 89.2675, 92.3867,  
94.7899

■ 29.2831, 33.6379,  
86.6117

■ 91.5002, 96.8521,  
95.5341

■ 92.5802, 99.0121,  
95.8941

# Harmonies

## Analogous

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



45.1825, 56.6621, 76.2251



48.4524, 56.6621, 90.0445



53.3523, 56.6621, 96.2024

# Triad

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



48.4524, 56.6621, 90.0445



64.8431, 56.6621, 63.1527



49.2720, 56.6621, 38.9508

# Complementary

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



48.4524, 56.6621, 90.0445



54.1158, 48.1634, 30.1129

# 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.



54.3621, 56.6621, 36.6184



48.4524, 56.6621, 90.0445



63.5732, 56.6621, 49.1404

# Square

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



48.4524, 56.6621, 90.0445



63.0109, 56.6621, 79.1454



59.6463, 56.6621, 40.0247



45.6331, 56.6621, 47.0196



# Rectangle

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



48.4524, 56.6621, 90.0445



56.9672, 56.6621, 94.4822



59.6463, 56.6621, 40.0247



50.8595, 56.6621, 37.5349

# Sweetspot

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



48.4542, 56.6643, 90.0458



80.7581, 87.9856, 107.3343



48.2152, 69.8649, 47.7966



16.8128, 18.4252, 22.9202



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.



48.4542, 56.6643, 90.0458



50.9221, 60.4201, 103.5861



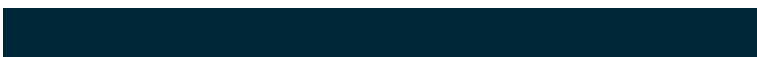
38.0229, 35.8017, 86.5687



15.8184, 17.0708, 20.1829



16.3032, 18.8307, 47.9033



1.4434, 1.7409, 4.0142



# Inverse Universe

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



55.9290, 40.7978, 64.6037



60.8944, 40.8454, 69.2859



65.3405, 70.6128, 33.8545



16.2378, 15.9448, 18.8082



23.5547, 11.6943, 21.3696

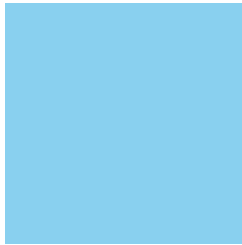


2.0035, 0.9905, 2.0094



# Previews

## White Background



This preview shows how the XYZ color 48.4524, 56.6621, 90.0445 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

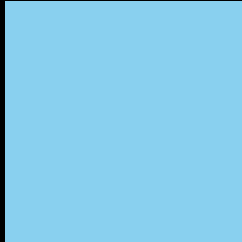
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.4524, 56.6621, 90.0445 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 48.4524, 56.6621, 90.0445**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.4524, 56.6621, 90.0445.



This preview shows how white text looks on a background with the XYZ color 48.4524, 56.6621,



# 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

48.4524, 56.6621, 90.0445

### Protanopia

55.6496, 56.3257, 83.5402

### Deuteranopia

57.3451, 56.0201, 91.7949



## Tritanopia

46.7432, 56.7076, 81.1551

# Trichromacy



**Original Color**

48.4524, 56.6621, 90.0445

**Protanomaly**

52.3001, 55.9070, 85.8765

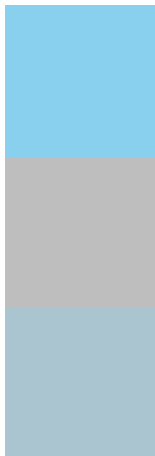
**Deuteranomaly**

53.3048, 55.6233, 91.1460

**Tritanomaly**

47.2159, 56.5213, 84.0225

# Monochromacy



**Original Color**

48.4524, 56.6621, 90.0445

**Achromatopsia**

48.9429, 51.4918, 56.0745

**Achromatomaly**

48.1460, 53.1445, 67.3949

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.4524, 56.6621, 90.0445 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(137, 208, 239)` looks like.

```
.text, #text, p{  
    color:rgb(137, 208, 239)  
}
```

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(137, 208, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 208, 239) }
```

## Border

The CSS property to change the border of an element to XYZ 48.4524, 56.6621, 90.0445 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(137, 208, 239) }
```



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

```
.border{ border-color:rgb(137, 208, 239) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 208, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 208, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 208, 239);  
box-shadow:4px 4px 4px 4px rgb(137, 208,  
239) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.4524, 56.6621, 90.0445 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 208, 239) }
```

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

```
.background{ background-color: rgb(137,  
208, 239) }
```

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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