

# Converting Colors

XYZ(49.6463, 52.9864,  
102.2185)

Have a look what the booklet for  
XYZ(49.6463, 52.9864, 102.2185)  
contains.

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# **Color**

**XYZ(49.6933, 53.1722,  
102.2519)**

# Conversions

## Conversions Part 1

Format	Color
Hex	91C5FF
RGB	145, 197, 255
RGB Percent	57%, 77%, 100%
CMY	0.4314, 0.2274, 0.0000
CMYK	0.43, 0.23, 0.00, 0.00
HSL	212°, 100%, 78%
HSV	212°, 43%, 100%
XYZ	49.6933, 53.1722, 102.2519
YIQ	188.0640, -49.6100, 7.0140

# Conversions

## Conversions Part 2

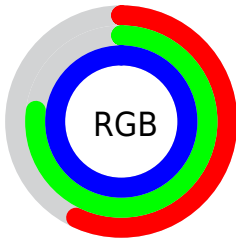
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">145, 180, 255</a>
Decimal	<a href="#">9553407</a>
CIELab	<a href="#">77.98, -2.27, -33.83</a>
CIELCh	<a href="#">78, 33.902, 266.159</a>
Yxy	<a href="#">53.1722, 0.2423, 0.2592</a>
Android (android.graphics.Color)	<a href="#">4287743487</a> ( <a href="#">0xFF91C5FF</a> )
YUV	<a href="#">188.0640, 32.9994, -37.7671</a>
Hunter-Lab	<a href="#">72.9193, -5.9639, -32.0966</a>

# Details

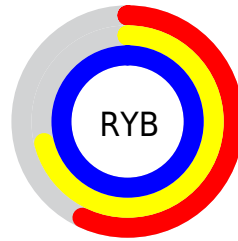
The XYZ color **49.6933, 53.1722, 102.2519** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **67.7076, 66.0172, 35.9641**, and the grayscale version is **47.6764, 50.1593, 54.6235**.

A 20% lighter version of the original color is **78.1204, 90.8001, 108.0165**, and **24.0400, 25.7968, 57.1383** is the 20% darker color. If you saturate the color by 10%, you get **42.7760, 45.2753, 101.0922**, and if you desaturate by 10%, it is **57.8944, 62.1374, 103.5501**.

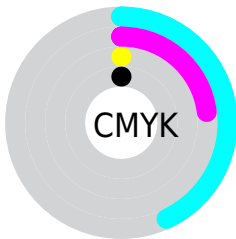
# Distribution



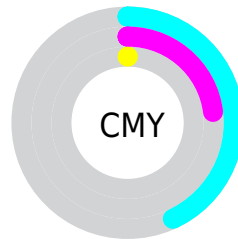
- Red (57%)
- Green (77%)
- Blue (100%)



- Red (57%)
- Yellow (71%)
- Blue (100%)



- Cyan (43%)
- Magenta (23%)
- Yellow (0%)
- Black (0%)



- Cyan (43%)
- Magenta (23%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.6933, 53.1722, 102.2519 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 49.6933, 53.1722, 102.2519 by changing the saturation by 10% instead.



■ 49.6933, 53.1722,  
102.2519

■ 49.6933, 53.1722,  
102.2519

375.9372,  
398.9454, 588.6968

■ 35.3866, 37.9403,  
77.5552

■ 88.9148, 94.8577,  
166.3272

■ 24.1287, 25.9363,  
57.1944

■ 114.5603,  
122.0801, 206.5428

■ 15.5544, 16.7760,  
40.7509

144.7162,  
154.0680, 252.7685

■ 9.2982, 10.0749,  
27.8063

179.7476,  
191.2059, 305.4228

■ 4.9949, 5.4487,  
17.9419

220.0201,  
233.8783, 364.9243

■ 2.2790, 2.5128,  
10.7393

265.8990,

■ 0.7839, 0.8831,

282.4693, 431.6914

5.7798

317.7495,  
337.3636, 506.1427

■ 0.0000, 0.0000,  
2.6451

■ 0.0000, 0.0000,  
0.9156

■ 49.6933, 53.1722,  
102.2519

■ 49.6933, 53.1722,  
102.2519

■ 42.7760, 45.2753,  
101.0922

■ 57.8944, 62.1374,  
103.5501

■ 37.0624, 38.3916,  
100.0647

■ 67.4434, 72.2107,  
104.9912

■ 32.4700, 32.4686,  
99.1635

■ 78.4053, 83.4365,  
106.5802

■ 28.9023, 27.4453,  
98.3819

■ 90.8394, 95.8548,  
108.3218

■ 26.2432, 23.2497, 95.0500, 100.0000,  
97.7122 108.9000

■ 24.8324, 20.7848,  
97.3108

# Harmonies

## Analogous

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



43.7962, 53.1722, 93.6298



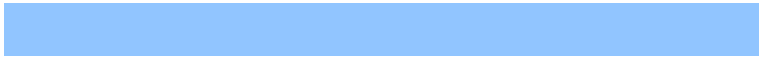
49.6933, 53.1722, 102.2519



56.3418, 53.1722, 97.0242

# Triad

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



49.6933, 53.1722, 102.2519



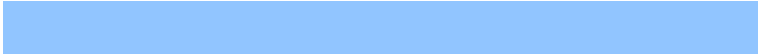
62.8053, 53.1722, 43.3063



40.7146, 53.1722, 39.9239

# Complementary

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



49.6933, 53.1722, 102.2519



67.7076, 66.0172, 35.9641

# 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.



45.1482, 53.1722, 31.0189



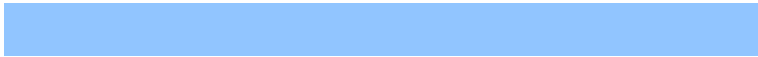
49.6933, 53.1722, 102.2519



57.9397, 53.1722, 32.6527

# Square

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



49.6933, 53.1722, 102.2519



64.2862, 53.1722, 60.3642



51.3934, 53.1722, 28.6787



38.9055, 53.1722, 55.4950



# Rectangle

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



49.6933, 53.1722, 102.2519



60.2546, 53.1722, 86.8922



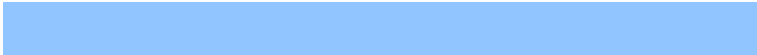
51.3934, 53.1722, 28.6787



41.9276, 53.1722, 36.1952

# Sweetspot

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



49.6949, 53.1741, 102.2522



78.5635, 83.5965, 106.6027



58.0792, 81.7967, 68.5024



16.2703, 17.3403, 22.7394



0.0000, 0.0000, 0.0000

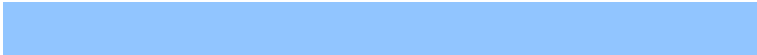


20.3446, 21.4041, 23.3091

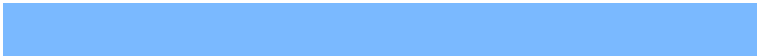


# Same Dimension

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



49.6949, 53.1741, 102.2522



43.4994, 46.1200, 101.2171



40.1798, 33.6604, 98.9871



17.7112, 18.7940, 22.9441



13.1224, 11.1543, 50.8960



1.3861, 1.3028, 4.9917



# Inverse Universe

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



61.4446, 45.5437, 58.3775



57.0146, 38.7838, 50.4266



81.4400, 94.4784, 40.7339



18.3669, 18.1301, 20.5491



23.4118, 11.8540, 10.8187



2.3342, 1.1761, 1.3414



# Previews

## White Background



This preview shows how the XYZ color 49.6933, 53.1722, 102.2519 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

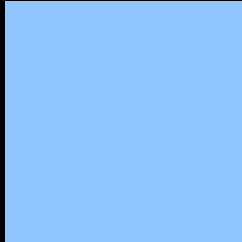
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.6933, 53.1722, 102.2519 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

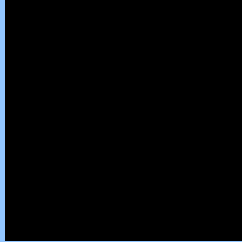
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

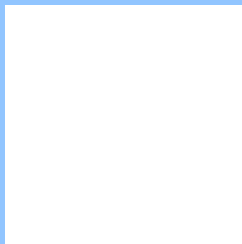
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 49.6933, 53.1722, 102.2519

## Background



This preview shows how black text looks on a background with the XYZ color 49.6933, 53.1722, 102.2519.



This preview shows how white text looks on a background with the XYZ color 49.6933, 53.1722,



# 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

49.6933, 53.1722, 102.2519

### Protanopia

53.5733, 52.9591, 97.8410

### Deuteranopia

54.1521, 52.8453, 101.9538



## Tritanopia

44.2659, 53.0301, 75.6129

# Trichromacy



## Original Color

49.6933, 53.1722, 102.2519

## Protanomaly

52.1577, 53.1675, 99.6088

## Deuteranomaly

52.4167, 52.9186, 102.0594

## Tritanomaly

46.2421, 53.1454, 84.9117

# Monochromacy



## Original Color

49.6933, 53.1722, 102.2519

## Achromatopsia

47.7994, 50.2886, 54.7643

## Achromatomaly

47.5277, 50.7857, 69.5850

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.6933, 53.1722, 102.2519 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(145, 197, 255)` looks like.

```
.text, #text, p{  
    color:rgb(145, 197, 255)  
}
```

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(145, 197, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(145, 197, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 49.6933, 53.1722, 102.2519 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(145, 197, 255) }
```



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

```
.border{ border-color:rgb(145, 197, 255) }
```

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

Here you see how a box with a 4 pixel rgb(145, 197, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(145, 197, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(145, 197, 255);  
box-shadow:4px 4px 4px 4px rgb(145, 197,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.6933, 53.1722, 102.2519 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(145, 197, 255) }
```

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

```
.background{ background-color: rgb(145,  
197, 255) }
```

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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