

# Converting Colors

XYZ(46.9977, 55.2233,  
102.7899)

Have a look what the booklet for  
XYZ(46.9977, 55.2233, 102.7899)  
contains.

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# **Color**

**XYZ(47.0449, 55.2904,  
102.8003)**

# Conversions

## Conversions Part 1

Format	Color
Hex	70CFFF
RGB	112, 207, 255
RGB Percent	44%, 81%, 100%
CMY	0.5608, 0.1882, 0.0000
CMYK	0.56, 0.19, 0.00, 0.00
HSL	200°, 100%, 72%
HSV	200°, 56%, 100%
XYZ	47.0449, 55.2904, 102.8003
YIQ	184.0670, -72.0280, -5.2120

# Conversions

## Conversions Part 2

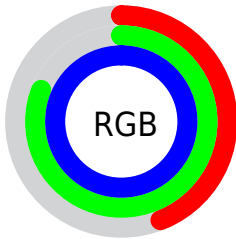
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">112, 169, 255</a>
Decimal	<a href="#">7393279</a>
CIELab	<a href="#">79.21, -14.87, -32.05</a>
CIELCh	<a href="#">79, 35.332, 245.116</a>
Yxy	<a href="#">55.2904, 0.2293, 0.2695</a>
Android (android.graphics.Color)	<a href="#">4285583359</a> ( <a href="#">0xFF70CFFF</a> )
YUV	<a href="#">184.0670, 34.9700, -63.2028</a>
Hunter-Lab	<a href="#">74.3575, -17.1913, -29.9190</a>

# Details

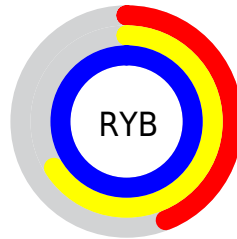
The XYZ color **47.0449, 55.2904, 102.8003** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **56.7365, 47.5729, 21.5234**, and the grayscale version is **45.4402, 47.8066, 52.0614**.

A 20% lighter version of the original color is **71.0436, 87.6242, 107.7765**, and **22.5391, 27.3519, 57.5176** is the 20% darker color. If you saturate the color by 10%, you get **42.2303, 49.8139, 101.9970**, and if you desaturate by 10%, it is **52.8937, 61.4691, 103.6847**.

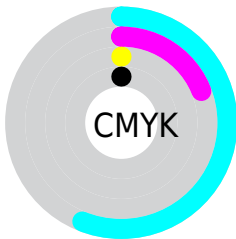
# Distribution



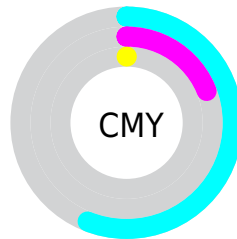
- Red (44%)
- Green (81%)
- Blue (100%)



- Red (44%)
- Yellow (66%)
- Blue (100%)



- Cyan (56%)
- Magenta (19%)
- Yellow (0%)
- Black (0%)



- Cyan (56%)
- Magenta (19%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.0449, 55.2904, 102.8003 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 47.0449, 55.2904, 102.8003 by changing the saturation by 10% instead.



47.0449, 55.2904,  
102.8003

47.0449, 55.2904,  
102.8003

365.6396,  
407.0118, 590.4570

33.2792, 39.6343,  
78.0114

84.9990, 97.9663,  
167.0855

22.5007, 27.2535,  
57.5668

109.9181,  
125.7549, 207.4188

14.3439, 17.7637,  
41.0481

139.2858,  
158.3564, 253.7707

8.4436, 10.7805,  
28.0367

173.4673,  
196.1552, 306.5596

4.4342, 5.9194,  
18.1140

212.8282,  
239.5358, 366.2042

1.9506, 2.7961,  
10.8616

257.7336,

0.6060, 1.0263,

288.8825, 433.1229

5.8608

308.5489,  
344.5797, 507.7344

■ 0.0000, 0.0000,  
2.6932

■ 0.0000, 0.0000,  
0.9400

■ 47.0449, 55.2904,  
102.8003

■ 47.0449, 55.2904,  
102.8003

■ 42.2303, 49.8139,  
101.9970

■ 52.8937, 61.4691,  
103.6847

■ 38.3633, 44.9892,  
101.2696

■ 59.8440, 68.3840,  
104.6531

■ 35.3505, 40.7664,  
100.6133

■ 67.9628, 76.0732,  
105.7093

■ 33.0740, 37.0820,  
100.0221

■ 77.3101, 84.5701,  
106.8567

■ 32.3138, 35.7476,  
99.8046

■ 87.9414, 93.9058,  
108.0984

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



42.2125, 55.2904, 85.4464



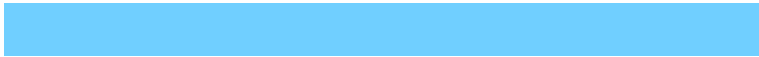
47.0449, 55.2904, 102.8003



53.7717, 55.2904, 107.8141

# Triad

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



47.0449, 55.2904, 102.8003



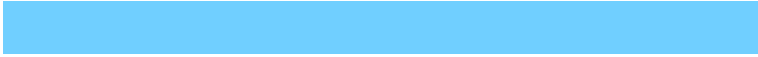
67.2637, 55.2904, 56.8012



45.1242, 55.2904, 33.6739

# Complementary

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



47.0449, 55.2904, 102.8003



56.7365, 47.5729, 21.5234

# 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.



51.3506, 55.2904, 29.1907



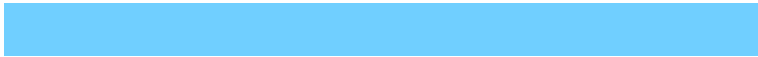
47.0449, 55.2904, 102.8003



64.4550, 55.2904, 40.4947

# Square

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



47.0449, 55.2904, 102.8003



65.8520, 55.2904, 78.0849



58.4726, 55.2904, 31.3748



41.1752, 55.2904, 45.2816



# Rectangle

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



47.0449, 55.2904, 102.8003



58.5264, 55.2904, 102.7049



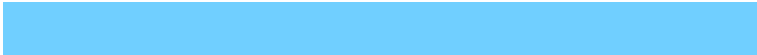
58.4726, 55.2904, 31.3748



46.9984, 55.2904, 31.4180

# Sweetspot

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



47.0465, 55.2923, 102.8006



76.3931, 83.7501, 106.7468



48.7594, 77.4918, 45.4947



15.9327, 17.5497, 22.7976



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.



47.0465, 55.2923, 102.8006



41.8344, 49.3413, 101.9267



33.5145, 28.2282, 98.2899



18.0112, 19.3939, 23.0441



17.0280, 18.9656, 52.1978



1.7588, 2.0483, 5.1159



# Inverse Universe

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



58.2978, 37.3550, 63.1711



54.5750, 31.6852, 56.4557



72.7879, 79.6758, 26.8739



18.5183, 18.1906, 21.3464



25.3832, 12.6426, 21.2000

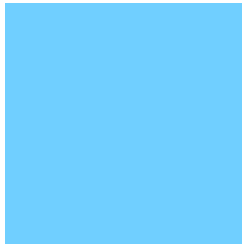


2.5224, 1.2513, 2.3322



# Previews

## White Background



This preview shows how the XYZ color 47.0449, 55.2904, 102.8003 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

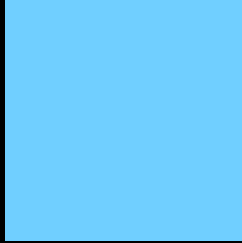
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.0449, 55.2904, 102.8003 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

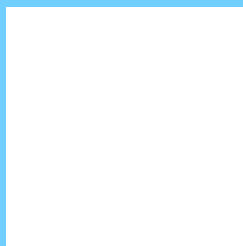
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 47.0449, 55.2904, 102.8003

## Background



This preview shows how black text looks on a background with the XYZ color 47.0449, 55.2904, 102.8003.



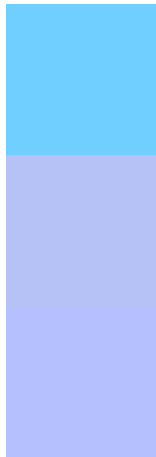
This preview shows how white text looks on a background with the XYZ color 47.0449, 55.2904,



# 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

47.0449, 55.2904, 102.8003

### Protanopia

54.8428, 54.6776, 94.0495

### Deuteranopia

55.7220, 54.6226, 102.2141



## Tritanopia

43.1658, 55.5689, 82.5795

# Trichromacy



## Original Color

47.0449, 55.2904, 102.8003

## Protanomaly

51.1976, 54.3958, 97.4236

## Deuteranomaly

51.5338, 54.1211, 102.3380

## Tritanomaly

44.4231, 55.3304, 89.2274

# Monochromacy



## Original Color

47.0449, 55.2904, 102.8003

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

44.5830, 49.6215, 68.2009

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.0449, 55.2904, 102.8003 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(112, 207, 255)` looks like.

```
.text, #text, p{  
    color:rgb(112, 207, 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(112, 207, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 207, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 47.0449, 55.2904, 102.8003 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(112, 207, 255) }
```



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

```
.border{ border-color:rgb(112, 207, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 207, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 207, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 207, 255);  
box-shadow:4px 4px 4px 4px rgb(112, 207,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.0449, 55.2904, 102.8003 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 207, 255) }
```

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

```
.background{ background-color: rgb(112,  
207, 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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