

# Converting Colors

XYZ(42.1399, 58.7720,  
155.7046)

Have a look what the booklet for  
XYZ(42.1399, 58.7720, 155.7046)  
contains.

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# Color

**XYZ(45.2464, 61.6127,  
104.1155)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E2FF
RGB	0, 226, 255
RGB Percent	0%, 89%, 100%
CMY	0.9997, 0.1137, 0.0000
CMYK	1.00, 0.11, 0.00, 0.00
HSL	187°, 100%, 50%
HSV	187°, 100%, 100%
XYZ	45.2464, 61.6127, 104.1155
YIQ	161.7320, -144.0050, -38.8930

# Conversions

## Conversions Part 2

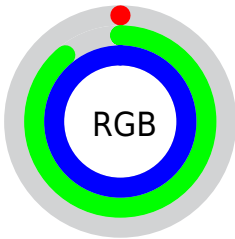
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 120, 255
Decimal	58111
CIELab	82.71, -35.05, -26.85
CIELCh	83, 44.157, 217.454
Yxy	61.6127, 0.2145, 0.2920
Android (android.graphics.Color)	4278248191 (0xFF00E2FF)
YUV	161.7320, 45.9811, -141.8390
Hunter-Lab	78.4938, -34.4708, -23.6977

# Details

The XYZ color **45.2464, 61.6127, 104.1155** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light saturated cyan. A complement of this color would be **41.6817, 22.1427, 2.0794**, and the grayscale version is **34.0694, 35.8436, 39.0337**.

A 20% lighter version of the original color is **61.1461, 82.5219, 107.3133**, and **24.5678, 32.8267, 58.4674** is the 20% darker color. If you saturate the color by 10%, you get **45.2446, 61.6093, 104.1149**, and if you desaturate by 10%, it is **46.4580, 63.4194, 104.4003**.

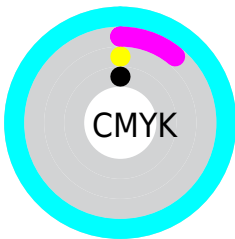
# Distribution



- Red (0%)
- Green (89%)
- Blue (100%)



- Red (0%)
- Yellow (47%)
- Blue (100%)



- Cyan (100%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (11%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.2464, 61.6127, 104.1155 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 45.2464, 61.6127, 104.1155 by changing the saturation by 10% instead.




 45.2464, 61.6127,  
104.1155


 45.2464, 61.6127,  
104.1155


358.5375,  
430.5169, 594.6673


 31.8537, 44.7198,  
79.1060


 82.3248, 107.1656,  
168.9024


 21.4047, 31.2368,  
58.4612


 106.7412,  
136.5944, 209.5170

 13.5343, 20.7792,  
41.7623


 135.5629,  
170.9706, 256.1703

 7.8770, 12.9627,  
28.5911

 169.1551,  
210.6786, 309.2809

 4.0675, 7.4029,  
18.5288

 207.8834,  
256.1029, 369.2674

 1.7404, 3.7153,  
11.1569

252.1130,

 0.4814, 1.5156,

307.6278, 436.5482

6.0570

302.2092,  
365.6377, 511.5420

■ 0.0000, 0.2997,  
2.8104

■ 0.0000, 0.0000,  
0.9987

■ 45.2464, 61.6127,  
104.1155

■ 45.2464, 61.6127,  
104.1155

■ 45.2446, 61.6093,  
104.1149

■ 46.4580, 63.4194,  
104.4003

■ 48.2208, 65.5289,  
104.7146

■ 50.7007, 68.0282,  
105.0663

■ 53.9984, 70.9691,  
105.4601

■ 58.1984, 74.3953,  
105.9001

■ 63.3746, 78.3450,  
106.3897

■ 69.5930, 82.8525,  
106.9319

■ 76.9140, 87.9488,  
107.5298

■ 85.3933, 93.6627,  
108.1858

# Harmonies

## Analogous

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



42.2784, 61.6127, 74.0907



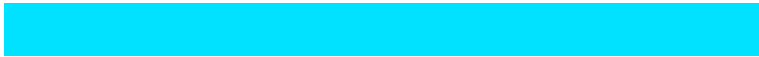
45.2464, 61.6127, 104.1155



51.8444, 61.6127, 127.7939

# Triad

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



45.2464, 61.6127, 104.1155



77.0666, 61.6127, 89.1658



56.2273, 61.6127, 27.4866

# Complementary

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



45.2464, 61.6127, 104.1155



41.6817, 22.1427, 2.0794

# 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.



65.8341, 61.6127, 29.4917



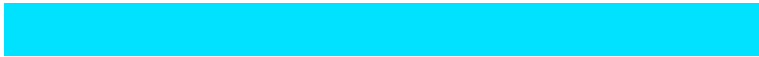
45.2464, 61.6127, 104.1155



78.5646, 61.6127, 60.5369

# Square

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



45.2464, 61.6127, 104.1155



70.3637, 61.6127, 117.6639



74.2607, 61.6127, 40.0772



48.1580, 61.6127, 33.5842

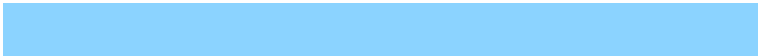


# Rectangle

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



45.2464, 61.6127, 104.1155



57.7548, 61.6127, 133.9437



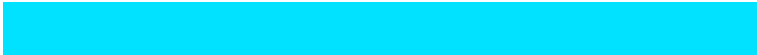
74.2607, 61.6127, 40.0772



59.3747, 61.6127, 27.2722

# Sweetspot

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



45.2482, 61.6148, 104.1158



69.5716, 82.8373, 106.9301



35.9427, 71.5932, 12.8769



14.3023, 17.3090, 22.8371



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

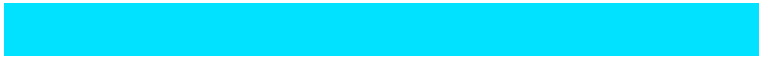


# Same Dimension

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



45.2482, 61.6148, 104.1158



45.2446, 61.6093, 104.1149



22.8072, 16.7328, 96.6354



18.3680, 20.1077, 23.1630



23.7118, 32.3332, 54.4258



2.3568, 3.2442, 5.3153



# Inverse Universe

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



54.9687, 26.7529, 74.2202



54.9666, 26.7506, 74.2133



52.6370, 44.0532, 5.7312



18.6984, 18.2627, 22.2950



28.7568, 13.9920, 38.9654

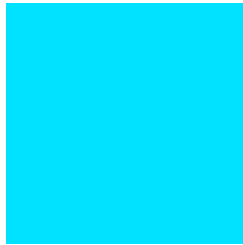


2.8242, 1.3721, 3.9216



# Previews

## White Background



This preview shows how the XYZ color 45.2464, 61.6127, 104.1155 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

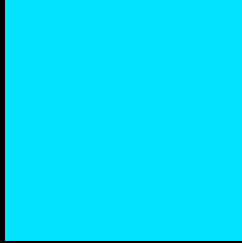
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.2464, 61.6127, 104.1155 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 45.2464, 61.6127, 104.1155

## Background



This preview shows how black text looks on a background with the XYZ color 45.2464, 61.6127, 104.1155.



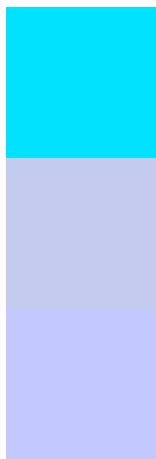
This preview shows how white text looks on a background with the XYZ color 45.2464, 61.6127,



# 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

45.2464, 61.6127, 104.1155

### Protanopia

59.7265, 60.3434, 90.1609

### Deuteranopia

61.4423, 60.5954, 103.0655



## Tritanopia

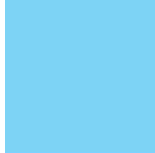
43.9505, 61.5307, 95.9464

# Trichromacy



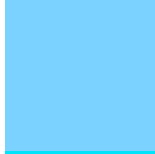
## Original Color

45.2464, 61.6127, 104.1155



## Protanomaly

48.2331, 57.5411, 94.9506



## Deuteranomaly

49.4088, 57.5983, 103.1212



## Tritanomaly

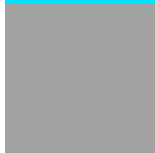
44.5680, 61.7777, 99.1978

# Monochromacy



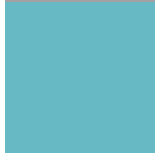
## Original Color

45.2464, 61.6127, 104.1155



## Achromatopsia

34.3422, 36.1307, 39.3463



## Achromatomaly

32.9063, 41.5670, 58.5134

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.2464, 61.6127, 104.1155 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(0, 226, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 226, 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(0, 226, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 226, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 45.2464, 61.6127, 104.1155 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(0, 226, 255) }
```



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

```
.border{ border-color:rgb(0, 226, 255) }
```

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

Here you see how a box with a 4 pixel rgb(0, 226, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 226, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 226, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 226,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.2464, 61.6127, 104.1155 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 226, 255) }
```

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

```
.background{ background-color: rgb(0, 226,  
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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