

# Converting Colors

XYZ(46.5101, 65.2911, 99.7976)

Have a look what the booklet for  
XYZ(46.5101, 65.2911, 99.7976)  
contains.

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# Color

**XYZ(46.4873, 65.2460,  
99.7661)**

# Conversions

## Conversions Part 1

Format	Color
Hex	12E9F9
RGB	18, 233, 249
RGB Percent	7%, 91%, 98%
CMY	0.9292, 0.0863, 0.0235
CMYK	0.93, 0.06, 0.00, 0.02
HSL	184°, 95%, 52%
HSV	184°, 93%, 98%
XYZ	46.4873, 65.2460, 99.7661
YIQ	170.5390, -133.2760, -40.6040

# Conversions

## Conversions Part 2

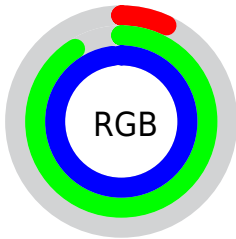
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	18, 129, 249
Decimal	1239545
CIE Lab	84.61, -39.72, -20.79
CIE LCh	85, 44.832, 207.626
Yxy	65.2460, 0.2198, 0.3085
Android (android.graphics.Color)	4279429625 (0xFF12E9F9)
YUV	170.5390, 38.6813, -133.7767
Hunter-Lab	80.7750, -38.6266, -16.6872

# Details

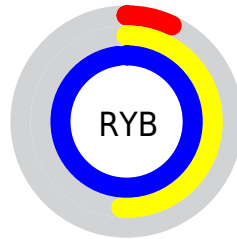
The XYZ color **46.4873, 65.2460, 99.7661** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **39.7505, 21.3307, 2.5966**, and the grayscale version is **38.3464, 40.3434, 43.9340**.

A 20% lighter version of the original color is **61.5557, 82.7331, 107.3325**, and **25.3478, 35.2945, 55.9286** is the 20% darker color. If you saturate the color by 10%, you get **45.8862, 64.4138, 99.6384**, and if you desaturate by 10%, it is **47.7239, 66.6133, 99.9661**.

# Distribution



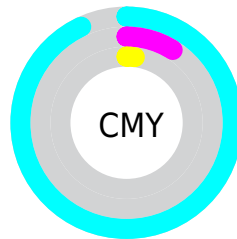
- Red (7%)
- Green (91%)
- Blue (98%)



- Red (7%)
- Yellow (51%)
- Blue (98%)



- Cyan (93%)
- Magenta (6%)
- Yellow (0%)
- Black (2%)




- Cyan (93%)
- Magenta (9%)
- Yellow (2%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.4873, 65.2460, 99.7661 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 46.4873, 65.2460, 99.7661 by changing the saturation by 10% instead.





 46.4873, 65.2460,  
99.7661

 46.4873, 65.2460,  
99.7661


363.4475,  
443.6755, 580.6828


 32.8368, 47.6606,  
75.4894


 84.1712, 112.4035,  
162.8848


 22.1601, 33.5582,  
55.5098


 108.9353,  
142.7443, 202.5639


 14.0918, 22.5544,  
39.4087


 138.1347,  
178.1057, 248.2142

 8.2667, 14.2648,  
26.7675

 172.1346,  
218.8721, 300.2542

 4.3193, 8.3051,  
17.1678

 211.3005,  
265.4279, 359.1026

 1.8843, 4.2908,  
10.1910

255.9977,

 0.5677, 1.8375,

318.1574, 425.1777

5.4185

306.5916,  
377.4452, 498.8983

■ 0.0000, 0.5104,  
2.4319

■ 0.0000, 0.0000,  
0.8037

■ 46.4873, 65.2460,  
99.7661

■ 46.4873, 65.2460,  
99.7661

■ 45.8862, 64.4138,  
99.6384

■ 47.7239, 66.6133,  
99.9661

■ 49.5987, 68.3153,  
100.1958

■ 52.2146, 70.4065,  
100.4616

■ 55.6546, 72.9298,  
100.7673

■ 59.9908, 75.9222,  
101.1163

■ 65.2874, 79.4168,  
101.5117

■ 71.6025, 83.4438,  
101.9561

■ 78.9898, 88.0307,  
102.4522

■ 87.4992, 93.2033,  
103.0021

# Harmonies

## Analogous

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



44.7145, 65.2460, 68.7845



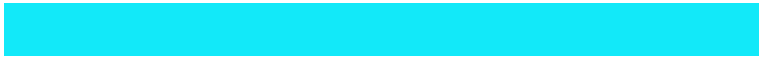
46.4873, 65.2460, 99.7661



52.2758, 65.2460, 128.4550

# Triad

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



46.4873, 65.2460, 99.7661



79.7174, 65.2460, 104.8044



62.8145, 65.2460, 28.9956

# Complementary

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



46.4873, 65.2460, 99.7661



39.7505, 21.3307, 2.5966

# 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.



72.8930, 65.2460, 33.9371



46.4873, 65.2460, 99.7661



83.2839, 65.2460, 73.3479

# Square

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



46.4873, 65.2460, 99.7661



71.3669, 65.2460, 131.8712



80.6629, 65.2460, 48.4393



53.5168, 65.2460, 32.5618

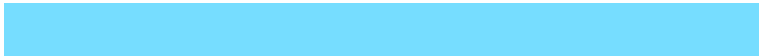


# Rectangle

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



46.4873, 65.2460, 99.7661



57.9835, 65.2460, 139.5684



80.6629, 65.2460, 48.4393



66.2278, 65.2460, 29.6789

# Sweetspot

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



46.4893, 65.2484, 99.7677



71.9239, 85.7658, 107.3714



34.4074, 67.9937, 12.7826



14.8031, 17.9773, 22.9397



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.



46.4893, 65.2484, 99.7677



48.4315, 67.9830, 105.1772



23.8433, 19.9562, 92.2190



17.6569, 19.3905, 22.1974



24.6053, 34.5663, 53.3487



2.3089, 3.2614, 4.9510



# Inverse Universe

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



53.9930, 26.4577, 79.3543



56.5752, 27.3941, 82.6839



49.9123, 41.6544, 5.9839



17.9381, 17.5026, 21.5297



28.7117, 13.9004, 42.0516

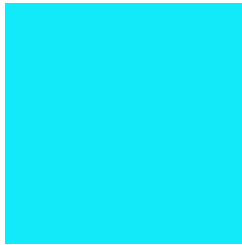


2.6743, 1.2935, 3.9745



# Previews

## White Background



This preview shows how the XYZ color 46.4873, 65.2460, 99.7661 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

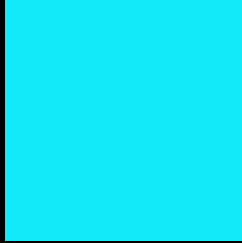
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.4873, 65.2460, 99.7661 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

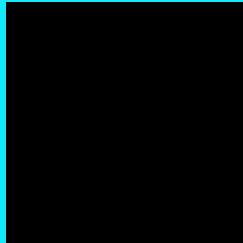
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

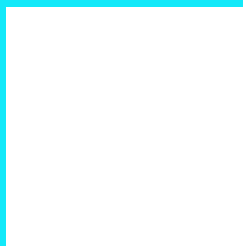
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 46.4873, 65.2460, 99.7661**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.4873, 65.2460, 99.7661.



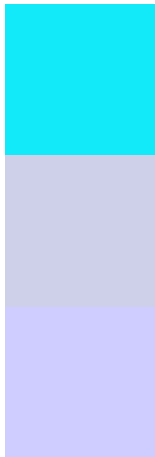
This preview shows how white text looks on a background with the XYZ color 46.4873, 65.2460,



# 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

46.4873, 65.2460, 99.7661

### Protanopia

62.7175, 64.1168, 86.1610

### Deuteranopia

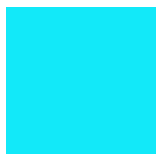
65.6134, 64.1480, 103.5314



## Tritanopia

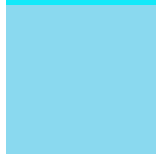
47.1105, 65.5128, 102.2577

# Trichromacy



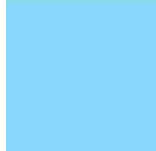
## Original Color

46.4873, 65.2460, 99.7661



## Protanomaly

50.8741, 61.2610, 90.8046



## Deuteranomaly

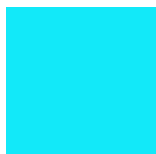
52.5113, 61.0960, 101.9536



## Tritanomaly

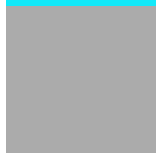
46.8824, 65.4134, 101.4219

# Monochromacy



## Original Color

46.4873, 65.2460, 99.7661



## Achromatopsia

38.7082, 40.7240, 44.3485



## Achromatomaly

36.6708, 46.3519, 61.0469

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.4873, 65.2460, 99.7661 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(18, 233, 249)` looks like.

```
.text, #text, p{  
    color:rgb(18, 233, 249)  
}
```

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(18, 233, 249) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 233, 249) }
```

## Border

The CSS property to change the border of an element to XYZ 46.4873, 65.2460, 99.7661 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(18, 233, 249) }
```



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

```
.border{ border-color:rgb(18, 233, 249) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 233, 249)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 233, 249); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 233, 249);  
box-shadow:4px 4px 4px 4px rgb(18, 233,  
249) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.4873, 65.2460, 99.7661 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 233, 249) }
```

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

```
.background{ background-color: rgb(18, 233,  
249) }
```

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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