

# Converting Colors

XYZ(53.3417, 89.0748, 87.1171)

Have a look what the booklet for  
XYZ(53.3417, 89.0748, 87.1171)  
contains.

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# Color

**XYZ(49.6251, 77.0661,  
84.9328)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFE3
RGB	0, 255, 227
RGB Percent	0%, 100%, 89%
CMY	0.9998, 0.0000, 0.1098
CMYK	1.00, 0.00, 0.11, 0.00
HSL	173°, 100%, 50%
HSV	173°, 100%, 100%
XYZ	49.6251, 77.0661, 84.9328
YIQ	175.5630, -142.9920, -62.7680

# Conversions

## Conversions Part 2

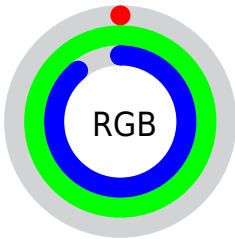
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 135, 255
Decimal	65507
CIELab	90.35, -55.80, -0.74
CIELCh	90, 55.803, 180.760
Yxy	77.0661, 0.2345, 0.3642
Android (android.graphics.Color)	4278255587 (0xFF00FFE3)
YUV	175.5630, 25.3584, -153.9688
Hunter-Lab	87.7873, -52.7239, 4.0890

# Details

The XYZ color **49.6251, 77.0661, 84.9328** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light saturated cyan. A complement of this color would be **41.4508, 21.3452, 3.0371**, and the grayscale version is **40.9730, 43.1067, 46.9432**.

A 20% lighter version of the original color is **61.2812, 82.5916, 107.3196**, and **27.4126, 42.9111, 45.8676** is the 20% darker color. If you saturate the color by 10%, you get **49.6246, 77.0658, 84.9300**, and if you desaturate by 10%, it is **50.4298, 77.4358, 87.0061**.

# Distribution



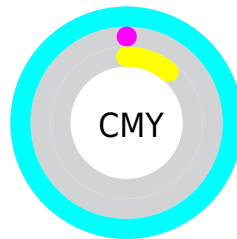
- Red (0%)
- Green (100%)
- Blue (89%)



- Red (0%)
- Yellow (53%)
- Blue (100%)



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




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


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.6251, 77.0661, 84.9328 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 49.6251, 77.0661, 84.9328 by changing the saturation by 10% instead.





 49.6251, 77.0661,  
84.9328


 49.6251, 77.0661,  
84.9328


375.6743,  
484.9894, 531.5445


 35.3322, 57.3071,  
63.2360


 88.8143, 129.2328,  
142.1526

 24.0866, 41.2519,  
45.5900


 114.4413,  
162.4093, 178.5127

 15.5229, 28.5159,  
31.5760


 144.5771,  
200.8271, 220.5977

 9.2759, 18.7150,  
20.7757

 179.5869,  
244.8706, 268.8261

 4.9801, 11.4645,  
12.7705

 219.8362,  
294.9242, 323.6164

 2.2702, 6.3802,  
7.1419

265.6903,

 0.7794, 3.0776,

351.3722, 385.3872

3.4712

317.5145,  
414.5992, 454.5571

■ 0.0000, 1.1724,  
1.3400

■ 0.0000, 0.0390,  
0.0942

■ 49.6251, 77.0661,  
84.9328

■ 49.6251, 77.0661,  
84.9328

■ 49.6246, 77.0658,  
84.9300

■ 50.4298, 77.4358,  
87.0061

■ 51.7792, 78.0857,  
89.1366

■ 53.8383, 79.1007,  
91.3333

■ 56.7080, 80.5329,  
93.6013

60.4727, 82.4257,  
95.9446

65.2062, 84.8172,  
98.3668

70.9747, 87.7415,  
100.8712

77.8384, 91.2297,  
103.4607

85.8530, 95.3104,  
106.1380

# Harmonies

## Analogous

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



52.2990, 77.0661, 51.7780



49.6251, 77.0661, 84.9328



52.5832, 77.0661, 129.5089

# Triad

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



49.6251, 77.0661, 84.9328



87.7997, 77.0661, 168.4599



87.1076, 77.0661, 33.2437

# Complementary

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



49.6251, 77.0661, 84.9328



41.4508, 21.3452, 3.0371

# 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.



98.7239, 77.0661, 50.5120



49.6251, 77.0661, 84.9328



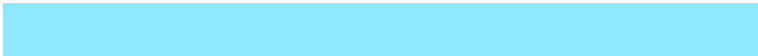
99.1577, 77.0661, 127.1710

# Square

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



49.6251, 77.0661, 84.9328



73.6046, 77.0661, 186.1894



103.3843, 77.0661, 82.8992



72.8946, 77.0661, 28.2547



# Rectangle

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



49.6251, 77.0661, 84.9328



57.5975, 77.0661, 158.3309



103.3843, 77.0661, 82.8992



91.5064, 77.0661, 37.4637

# Sweetspot

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



49.6261, 77.0665, 84.9342



70.9617, 87.7349, 100.8659



36.2898, 71.7931, 11.9463



14.6405, 18.5007, 21.3613



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.



49.6261, 77.0665, 84.9342



49.6246, 77.0658, 84.9300



30.1534, 31.4258, 99.0843



18.4638, 20.4451, 22.7456



25.9645, 40.2824, 44.5597



2.5516, 3.9316, 4.4625



# Inverse Universe

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



41.4508, 21.3452, 3.0371



41.4496, 21.3439, 3.0340



45.5876, 29.9548, 3.3806



18.0905, 18.0195, 19.0935



21.6842, 11.1630, 1.7214

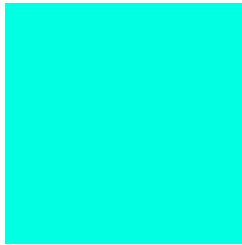


2.1365, 1.0970, 0.3002



# Previews

## White Background



This preview shows how the XYZ color 49.6251, 77.0661, 84.9328 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

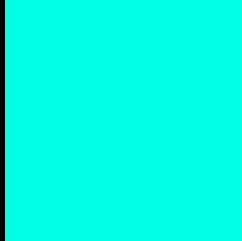
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.6251, 77.0661, 84.9328 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

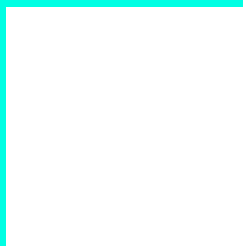
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.6251, 77.0661, 84.9328**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.6251, 77.0661, 84.9328.



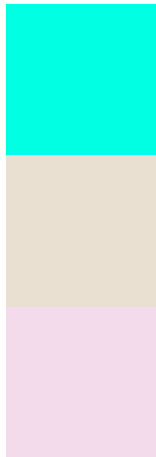
This preview shows how white text looks on a background with the XYZ color 49.6251, 77.0661,



# 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

49.6251, 77.0661, 84.9328

### Protanopia

71.8928, 75.2881, 71.7157

### Deuteranopia

77.2891, 75.7159, 89.1383



## Tritanopia

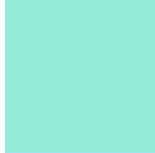
61.5379, 76.3336, 106.0982

# Trichromacy



## Original Color

49.6251, 77.0661, 84.9328



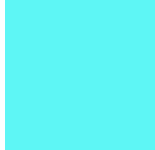
## Protanomaly

54.3157, 70.6704, 75.7438



## Deuteranomaly

56.9397, 70.5080, 86.9523



## Tritanomaly

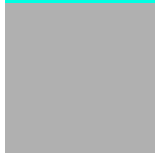
54.0533, 74.8838, 97.9913

# Monochromacy



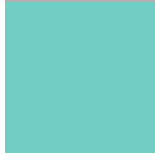
## Original Color

49.6251, 77.0661, 84.9328



## Achromatopsia

41.2663, 43.4154, 47.2793



## Achromatomaly

38.3637, 51.0475, 59.4609

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.6251, 77.0661, 84.9328 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, 255, 227)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 227)  
}
```

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, 255, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 227) }
```

## Border

The CSS property to change the border of an element to XYZ 49.6251, 77.0661, 84.9328 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, 255, 227) }
```



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

```
.border{ border-color:rgb(0, 255, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 255, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 227);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
227) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.6251, 77.0661, 84.9328 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 227) }
```

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

```
.background{ background-color: rgb(0, 255,  
227) }
```

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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