

# Converting Colors

XYZ(37.7650, 56.3687, 66.5791)

Have a look what the booklet for  
XYZ(37.7650, 56.3687, 66.5791)  
contains.

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# Color

**XYZ(37.6514, 56.1296,  
66.6073)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2CDCCD
RGB	44, 220, 205
RGB Percent	17%, 86%, 80%
CMY	0.8274, 0.1372, 0.1961
CMYK	0.80, 0.00, 0.07, 0.14
HSL	175°, 72%, 52%
HSV	175°, 80%, 86%
XYZ	37.6514, 56.1296, 66.6073
YIQ	165.6660, -100.0810, -41.9770

# Conversions

## Conversions Part 2

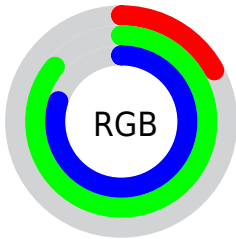
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	44, 136, 220
Decimal	2940109
CIE <sub>Lab</sub>	79.69, -45.23, -4.80
CIE <sub>LCh</sub>	80, 45.488, 186.058
Y <sub>xy</sub>	56.1296, 0.2348, 0.3500
Android (android.graphics.Color)	4281130189 (0xFF2CDCCD)
YUV	165.6660, 19.3917, -106.7011
Hunter-Lab	74.9197, -41.4031, -0.2680

# Details

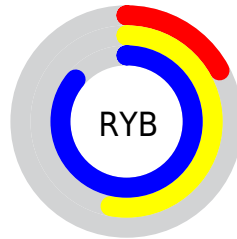
The XYZ color **37.6514, 56.1296, 66.6073** is a light color, and the websafe version is hex **00CCCC**. The color can be described as light washed cyan. A complement of this color would be **31.2073, 17.3346, 5.8411**, and the grayscale version is **36.0312, 37.9076, 41.2814**.

A 20% lighter version of the original color is **61.8360, 82.8776, 107.3456**, and **18.8614, 28.7853, 33.8402** is the 20% darker color. If you saturate the color by 10%, you get **36.7198, 55.6766, 65.3902**, and if you desaturate by 10%, it is **39.0893, 56.8458, 67.8648**.

# Distribution



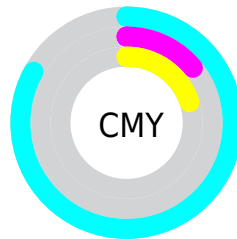
- Red (17%)
- Green (86%)
- Blue (80%)



- Red (17%)
- Yellow (53%)
- Blue (86%)



- Cyan (80%)
- Magenta (0%)
- Yellow (7%)
- Black (14%)




- Cyan (83%)
- Magenta (14%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6514, 56.1296, 66.6073 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 37.6514, 56.1296, 66.6073 by changing the saturation by 10% instead.





 37.6514, 56.1296,  
66.6073


 37.6514, 56.1296,  
66.6073


327.4290,  
410.1797, 467.0090

 25.8882, 40.3068,  
48.3060


 70.8809, 99.1940,  
115.9928


 16.8723, 27.7779,  
33.7075


 93.0779, 127.2045,  
147.9141

 10.2382, 18.1583,  
22.3935


 119.4835,  
160.0463, 185.2125

 5.6207, 11.0637,  
13.9452

 150.4632,  
198.1039, 228.3064

 2.6543, 6.1097,  
7.9443

 186.3822,  
241.7617, 277.6145

 0.9737, 2.9119,  
3.9720

227.6059,

 0.0000, 1.0859,

291.4040, 333.5553

1.6100

274.4997,  
347.4152, 396.5473

■ 0.0000, 0.0000,  
0.2980

■ 0.0000, 0.0000,  
0.0000

■ 37.6514, 56.1296,  
66.6073

■ 37.6514, 56.1296,  
66.6073

■ 36.7198, 55.6766,  
65.3902

■ 39.0893, 56.8458,  
67.8648


■ 36.1664, 55.4170,  
64.2036

■ 41.0980, 57.8547,  
69.1620


■ 36.1660, 55.4169,  
64.2028


■ 43.7377, 59.1886,  
70.5029


■ 47.0596, 60.8738,  
71.8901

 51.1097, 62.9342,  
73.3257

 55.9300, 65.3912,  
74.8118

 61.5592, 68.2650,  
76.3502

 68.0336, 71.5741,  
77.9426

 75.3870, 75.3360,  
79.5908

# Harmonies

## Analogous

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



38.7884, 56.1296, 42.8107



37.6514, 56.1296, 66.6073



40.3142, 56.1296, 95.9609

# Triad

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



37.6514, 56.1296, 66.6073



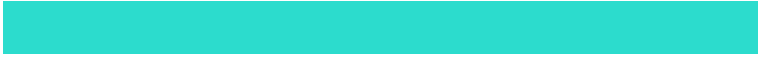
64.4282, 56.1296, 111.7691



60.8380, 56.1296, 25.5780

# Complementary

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



37.6514, 56.1296, 66.6073



31.2073, 17.3346, 5.8411

# 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.



68.9293, 56.1296, 35.9282



37.6514, 56.1296, 66.6073



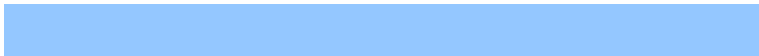
71.1628, 56.1296, 84.0113

# Square

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



37.6514, 56.1296, 66.6073



55.2341, 56.1296, 126.4280



72.8977, 56.1296, 55.9344



51.5083, 56.1296, 23.3690



# Rectangle

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



37.6514, 56.1296, 66.6073



44.0883, 56.1296, 113.3780



72.8977, 56.1296, 55.9344



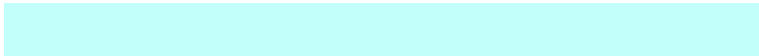
63.8246, 56.1296, 28.0388

# Sweetspot

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



37.6530, 56.1317, 66.6086



75.1782, 89.8514, 103.6451



28.0114, 52.3817, 11.0187



15.5820, 18.9724, 22.0252



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.



37.6530, 56.1317, 66.6086



50.7581, 77.5340, 90.2323



24.8020, 27.3911, 71.6921



13.3945, 14.8094, 16.5403



21.2454, 32.5308, 37.7872



1.3908, 2.1133, 2.5239



# Inverse Universe

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



31.2073, 17.3346, 5.8411



41.5989, 21.5807, 3.2740



36.0348, 27.5256, 5.7981



13.1009, 13.0694, 13.7925



17.4068, 8.9638, 1.2565

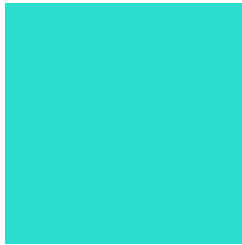


1.1436, 0.5871, 0.1654



# Previews

## White Background



This preview shows how the XYZ color 37.6514, 56.1296, 66.6073 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

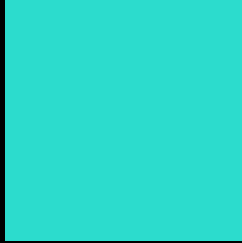
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.6514, 56.1296, 66.6073 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

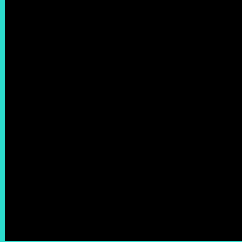
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

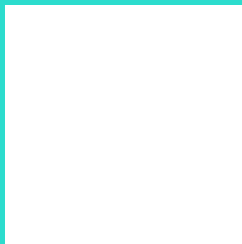
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.6514, 56.1296, 66.6073**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6514, 56.1296, 66.6073.



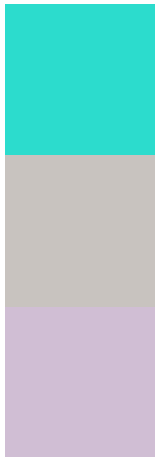
This preview shows how white text looks on a background with the XYZ color 37.6514, 56.1296,



# 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

37.6514, 56.1296, 66.6073

### Protanopia

52.7385, 55.0712, 57.1404

### Deuteranopia

56.3095, 54.9903, 69.9337



## Tritanopia

41.5106, 56.1532, 85.7416

# Trichromacy



## Original Color

37.6514, 56.1296, 66.6073



## Protanomaly

42.8844, 53.0109, 60.1964



## Deuteranomaly

44.6080, 52.6726, 68.1373



## Tritanomaly

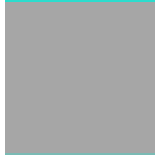
39.8771, 55.8530, 78.4910

# Monochromacy



## Original Color

37.6514, 56.1296, 66.6073



## Achromatopsia

36.2450, 38.1326, 41.5264



## Achromatomaly

33.8232, 42.5507, 49.6104

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6514, 56.1296, 66.6073 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(44, 220, 205)` looks like.

```
.text, #text, p{  
    color:rgb(44, 220, 205)  
}
```

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(44, 220, 205) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(44, 220, 205) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6514, 56.1296, 66.6073 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(44, 220, 205) }
```



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

```
.border{ border-color:rgb(44, 220, 205) }
```

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

Here you see how a box with a 4 pixel rgb(44, 220, 205) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(44, 220, 205); -webkit-box-  
shadow:4px 4px 4px 4px rgb(44, 220, 205);  
box-shadow:4px 4px 4px 4px rgb(44, 220,  
205) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.6514, 56.1296, 66.6073 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(44, 220, 205) }
```

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

```
.background{ background-color: rgb(44, 220,  
205) }
```

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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