

# Converting Colors

XYZ(35.6286, 64.6355, 56.1277)

Have a look what the booklet for  
XYZ(35.6286, 64.6355, 56.1277)  
contains.

<b>XYZ(40.4039, 66.9650, 56.1434)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(40.4039, 66.9650,  
56.1434)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F2B8
RGB	0, 242, 184
RGB Percent	0%, 95%, 72%
CMY	0.9998, 0.0510, 0.2784
CMYK	1.00, 0.00, 0.24, 0.05
HSL	166°, 100%, 47%
HSV	166°, 100%, 95%
XYZ	40.4039, 66.9650, 56.1434
YIQ	163.0300, -125.6140, -69.3420

# Conversions

## Conversions Part 2

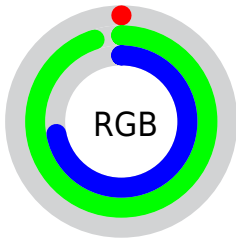
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 137, 242
Decimal	62136
CIELab	85.49, -61.49, 14.60
CIELCh	85, 63.199, 166.644
Yxy	66.9650, 0.2471, 0.4095
Android (android.graphics.Color)	4278252216 (0xFF00F2B8)
YUV	163.0300, 10.3382, -142.9773
Hunter-Lab	81.8321, -55.0735, 16.6048

# Details

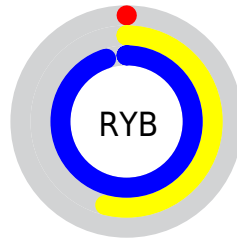
The XYZ color **40.4039, 66.9650, 56.1434** is a dark color, and the websafe version is hex **00FFCC**. The color can be described as middle saturated spring green. A complement of this color would be **37.3845, 19.1847, 5.7411**, and the grayscale version is **34.8285, 36.6422, 39.9034**.

A 20% lighter version of the original color is **58.2982, 81.3220, 95.0621**, and **21.4457, 36.3366, 27.3561** is the 20% darker color. If you saturate the color by 10%, you get **40.4043, 66.9670, 56.1398**, and if you desaturate by 10%, it is **41.4085, 67.4128, 59.4320**.

# Distribution



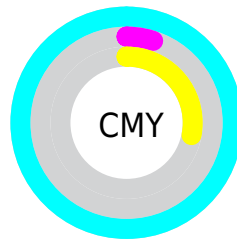
- Red (0%)
- Green (95%)
- Blue (72%)



- Red (0%)
- Yellow (54%)
- Blue (95%)



- Cyan (100%)
- Magenta (0%)
- Yellow (24%)
- Black (5%)




- Cyan (100%)
- Magenta (5%)
- Yellow (28%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.4039, 66.9650, 56.1434 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 40.4039, 66.9650, 56.1434 by changing the saturation by 10% instead.





 40.4039, 66.9650,  
56.1434


 40.4039, 66.9650,  
56.1434


338.9283,  
449.8202, 427.6352


 28.0392, 49.0562,  
39.9131


 75.0586, 114.8703,  
100.7021


 18.4958, 34.6641,  
27.1576


 98.0793, 145.6355,  
129.8676


 11.4084, 23.4042,  
17.4581


 125.3828,  
181.4550, 164.1820

 6.4115, 14.8923,  
10.3962

 157.3343,  
222.7131, 204.0637

 3.1399, 8.7438,  
5.5534

 194.2993,  
269.7943, 249.9313

 1.2282, 4.5745,  
2.5111

236.6430,

 0.1284, 1.9998,

323.0830, 302.2034

0.8461

284.7309,  
382.9635, 361.2985

■ 0.0000, 0.6074,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.4039, 66.9650,  
56.1434

■ 40.4039, 66.9650,  
56.1434

■ 40.4043, 66.9670,  
56.1398

■ 41.4085, 67.4128,  
59.4320

■ 42.9119, 68.1132,  
62.8742

■ 45.0641, 69.1452,  
66.4799

■ 47.9538, 70.5543,  
70.2549

■ 51.6554, 72.3790,  
74.2039

■ 56.2339, 74.6527,  
78.3315

■ 61.7478, 77.4055,  
82.6417

■ 68.2504, 80.6649,  
87.1386

■ 75.7908, 84.4562,  
91.8256

# Harmonies

## Analogous

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



45.6233, 66.9650, 31.0115



40.4039, 66.9650, 56.1434



40.7072, 66.9650, 97.9643

# Triad

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



40.4039, 66.9650, 56.1434



71.8811, 66.9650, 177.8254



84.5278, 66.9650, 29.2338

# Complementary

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



40.4039, 66.9650, 56.1434



37.3845, 19.1847, 5.7411

# 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.



93.9063, 66.9650, 52.5447



40.4039, 66.9650, 56.1434



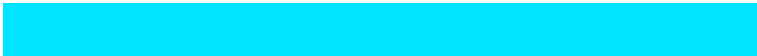
85.8873, 66.9650, 141.7145

# Square

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



40.4039, 66.9650, 56.1434



57.4860, 66.9650, 179.9596



94.4383, 66.9650, 92.7290



70.2358, 66.9650, 19.8933



# Rectangle

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



40.4039, 66.9650, 56.1434



43.9806, 66.9650, 130.9627



94.4383, 66.9650, 92.7290



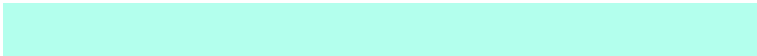
88.4475, 66.9650, 35.1942

# Sweetspot

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



40.4057, 66.9676, 56.1450



69.4718, 87.1389, 93.0201



33.6492, 64.4839, 10.6743



14.2805, 18.3567, 19.4656



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.



40.4057, 66.9676, 56.1450



45.4834, 75.4094, 63.1227



32.6564, 39.6679, 89.9430



16.0759, 17.8604, 19.4227



21.7609, 35.9964, 30.4534



1.8487, 3.0099, 2.7357



# Inverse Universe

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



37.3845, 19.1847, 5.7411



42.0857, 21.5983, 6.3835



38.2633, 22.1656, 2.2628



15.9281, 15.8210, 17.1776



20.1263, 10.3229, 3.3157

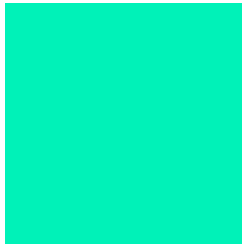


1.7121, 0.8739, 0.4745



# Previews

## White Background



This preview shows how the XYZ color 40.4039, 66.9650, 56.1434 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

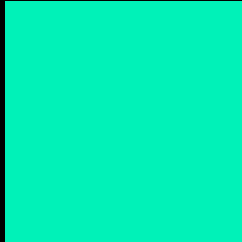
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 40.4039, 66.9650, 56.1434 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

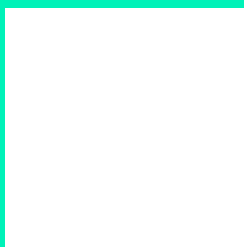
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 40.4039, 66.9650, 56.1434**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.4039, 66.9650, 56.1434.



This preview shows how white text looks on a background with the XYZ color 40.4039, 66.9650,



# Color Blindness Simulation

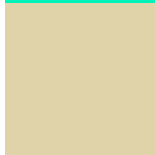
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



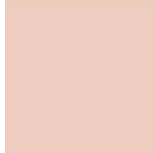
### Original Color

40.4039, 66.9650, 56.1434



### Protanopia

61.5070, 65.4607, 46.9295



### Deuteranopia

66.7039, 65.3422, 58.9658



## Tritanopia

49.7702, 66.8839, 102.3822

# Trichromacy



## Original Color

40.4039, 66.9650, 56.1434



## Protanomaly

45.0889, 61.1382, 49.4688



## Deuteranomaly

47.2056, 60.4923, 57.3323



## Tritanomaly

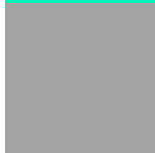
45.1272, 66.1899, 83.0705

# Monochromacy



## Original Color

40.4039, 66.9650, 56.1434



## Achromatopsia

34.8123, 36.6253, 39.8849



## Achromatomaly

31.9092, 43.5826, 45.2586

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.4039, 66.9650, 56.1434 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, 242, 184)` looks like.

```
.text, #text, p{  
    color:rgb(0, 242, 184)  
}
```

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, 242, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 242, 184) }
```

## Border

The CSS property to change the border of an element to XYZ 40.4039, 66.9650, 56.1434 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, 242, 184) }
```



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

```
.border{ border-color:rgb(0, 242, 184) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 242, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 242, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 242, 184);  
box-shadow:4px 4px 4px 4px rgb(0, 242,  
184) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.4039, 66.9650, 56.1434 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 242, 184) }
```

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

```
.background{ background-color: rgb(0, 242,  
184) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor