

# Converting Colors

XYZ(40.1719, 56.6813, 22.0785)

Have a look what the booklet for  
XYZ(40.1719, 56.6813, 22.0785)  
contains.

<b>XYZ(40.2425, 56.9040, 22.2272)</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(40.2425, 56.9040,  
22.2272)**

# Conversions

## Conversions Part 1

Format	Color
Hex	99D869
RGB	153, 216, 105
RGB Percent	60%, 85%, 41%
CMY	0.4000, 0.1529, 0.5882
CMYK	0.29, 0.00, 0.51, 0.15
HSL	94°, 59%, 63%
HSV	94°, 51%, 85%
XYZ	40.2425, 56.9040, 22.2272
YIQ	184.5090, -1.9170, -47.8770

# Conversions

## Conversions Part 2

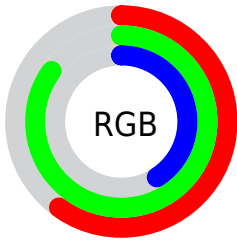
Format	Color
<a href="#">RYB</a>	<a href="#">105, 216, 168</a>
Decimal	<a href="#">10082409</a>
CIELab	<a href="#">80.13, -38.88, 47.97</a>
CIELCh	<a href="#">80, 61.752, 129.027</a>
Yxy	<a href="#">56.9040, 0.3371, 0.4767</a>
Android (android.graphics.Color)	<a href="#">4288272489</a> ( <a href="#">0xFF99D869</a> )
YUV	<a href="#">184.5090, -39.1979, -27.6334</a>
Hunter-Lab	<a href="#">75.4347, -36.7856, 35.3342</a>

# Details

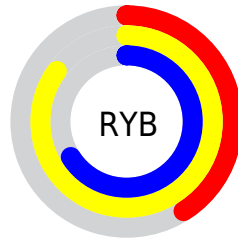
The XYZ color **40.2425, 56.9040, 22.2272** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **33.5974, 23.3877, 67.7125**, and the grayscale version is **46.0541, 48.4525, 52.7648**.

A 20% lighter version of the original color is **68.5964, 87.7248, 46.1181**, and **18.4245, 28.3435, 7.8679** is the 20% darker color. If you saturate the color by 10%, you get **37.0742, 55.3849, 17.0017**, and if you desaturate by 10%, it is **43.9333, 58.6635, 28.9512**.

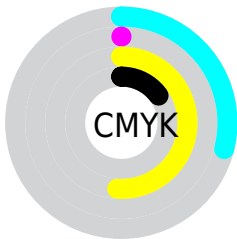
# Distribution



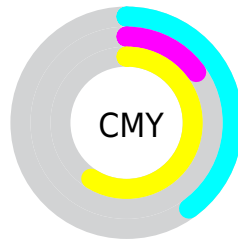
- Red (60%)
- Green (85%)
- Blue (41%)



- Red (41%)
- Yellow (85%)
- Blue (66%)



- Cyan (29%)
- Magenta (0%)
- Yellow (51%)
- Black (15%)




- Cyan (40%)
- Magenta (15%)
- Yellow (59%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.2425, 56.9040, 22.2272 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 40.2425, 56.9040, 22.2272 by changing the saturation by 10% instead.




 40.2425, 56.9040,  
22.2272


 40.2425, 56.9040,  
22.2272


338.2615,  
413.0895, 276.7226


 27.9127, 40.9282,  
13.8240


 74.8146, 100.3251,  
48.0282


 18.4000, 28.2630,  
7.8610


 97.7877, 128.5392,  
66.2631

 11.3390, 18.5240,  
3.9197


 125.0392,  
161.6014, 88.6124

 6.3643, 11.3268,  
1.5814

 156.9346,  
199.8963, 115.4945

 3.1106, 6.2871,  
0.2775

193.8392,  
243.8081, 147.3281

 1.2125, 3.0204,  
0.0000

236.1183,

 0.1162, 1.1424,

293.7213, 184.5316

0.0000

284.1373,  
350.0203, 227.5236

■ 0.0000, 0.0139,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.2425, 56.9040,  
22.2272

■ 40.2425, 56.9040,  
22.2272

■ 37.0742, 55.3849,  
17.0017

■ 43.9333, 58.6635,  
28.9512

■ 34.3954, 54.0862,  
13.1559


■ 48.1689, 60.6672,  
37.2729


■ 32.1750, 52.9968,  
10.5591


■ 52.9750, 62.9281,  
47.2877

■ 30.3753, 52.1004,  
9.0538


■ 58.3742, 65.4561,  
59.0819


 29.1118, 51.4623,  
8.3989

 64.3880, 68.2603,  
72.7365

 71.0365, 71.3495,  
88.3270

 78.1442, 74.6542,  
104.8988

 82.4211, 76.8591,  
105.0990

 83.8471, 77.5942,  
105.1657

# Harmonies

## Analogous

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



50.3793, 56.9040, 15.6420



40.2425, 56.9040, 22.2272



34.5018, 56.9040, 40.3288

# Triad

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



40.2425, 56.9040, 22.2272



45.8835, 56.9040, 151.7355



81.6564, 56.9040, 51.7152

# Complementary

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



40.2425, 56.9040, 22.2272



33.5974, 23.3877, 67.7125

# 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.



79.9541, 56.9040, 90.2006



40.2425, 56.9040, 22.2272



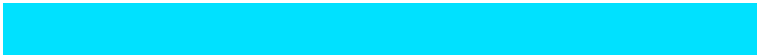
57.9692, 56.9040, 158.6147

# Square

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



40.2425, 56.9040, 22.2272



37.3905, 56.9040, 116.6009



70.7867, 56.9040, 132.8365



75.1307, 56.9040, 27.7802

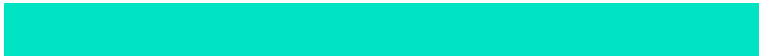


# Rectangle

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



40.2425, 56.9040, 22.2272



33.3307, 56.9040, 60.7902



70.7867, 56.9040, 132.8365



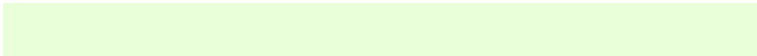
82.0466, 56.9040, 63.1423

# Sweetspot

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



40.2439, 56.9065, 22.2284



81.9506, 93.8891, 79.2784



44.8552, 43.5895, 19.4150



17.1820, 19.9282, 16.1846



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.



40.2439, 56.9065, 22.2284



53.4845, 80.4086, 23.9863



33.3303, 53.2965, 23.9778



12.7666, 14.1559, 13.2202



17.3490, 30.5201, 4.9766



1.1403, 1.8892, 0.3046



# Inverse Universe

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



33.5974, 23.3877, 67.7125



42.7206, 26.2702, 97.4268



44.8320, 29.2874, 63.3555



12.4105, 12.3530, 15.6678



12.2635, 5.4746, 38.8635



0.8337, 0.3787, 2.3485



# Previews

## White Background



This preview shows how the XYZ color 40.2425, 56.9040, 22.2272 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 40.2425, 56.9040, 22.2272 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

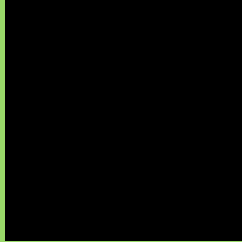
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 40.2425, 56.9040, 22.2272**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.2425, 56.9040, 22.2272.



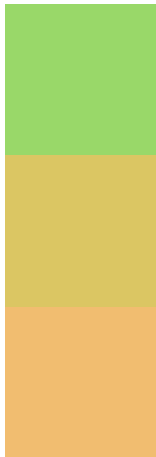
This preview shows how white text looks on a background with the XYZ color 40.2425, 56.9040,



# 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

40.2425, 56.9040, 22.2272

### Protanopia

51.6596, 56.3491, 19.9581

### Deuteranopia

57.3979, 56.2658, 23.1644



## Tritanopia

50.8518, 56.4252, 75.9211

# Trichromacy



## Original Color

40.2425, 56.9040, 22.2272



## Protanomaly

46.6860, 56.2043, 20.6998



## Deuteranomaly

49.4782, 55.5063, 22.5740



## Tritanomaly

45.9016, 56.2186, 50.5515

# Monochromacy



## Original Color

40.2425, 56.9040, 22.2272



## Achromatopsia

46.1135, 48.5150, 52.8328



## Achromatomaly

42.9743, 50.7644, 38.9860

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.2425, 56.9040, 22.2272 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(153, 216, 105)` looks like.

```
.text, #text, p{  
    color:rgb(153, 216, 105)  
}
```

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(153, 216, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 216, 105) }
```

## Border

The CSS property to change the border of an element to XYZ 40.2425, 56.9040, 22.2272 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(153, 216, 105) }
```



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

```
.border{ border-color:rgb(153, 216, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 216, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 216, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 216, 105);  
box-shadow:4px 4px 4px 4px rgb(153, 216,  
105) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.2425, 56.9040, 22.2272 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 216, 105) }
```

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

```
.background{ background-color: rgb(153,  
216, 105) }
```

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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