

# Converting Colors

XYZ(46.3516, 56.6813, 10.1360)

Have a look what the booklet for  
XYZ(46.3516, 56.6813, 10.1360)  
contains.

<b>XYZ(46.2092, 56.5493, 10.1487)</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(46.2092, 56.5493,  
10.1487)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C8CE24
RGB	200, 206, 36
RGB Percent	78%, 81%, 14%
CMY	0.2157, 0.1921, 0.8588
CMYK	0.03, 0.00, 0.83, 0.19
HSL	62°, 70%, 47%
HSV	62°, 83%, 81%
XYZ	46.2092, 56.5493, 10.1487
YIQ	184.8260, 50.9940, -54.1420

# Conversions

## Conversions Part 2

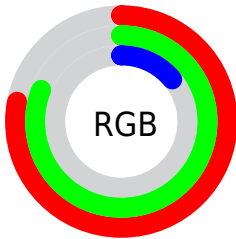
Format	Color
R <sub>Y</sub> B	36, 206, 42
Decimal	13159972
CIE Lab	79.93, -20.31, 74.71
CIE LCh	80, 77.421, 105.212
Yxy	56.5493, 0.4093, 0.5008
Android (android.graphics.Color)	4291350052 (0xFFC8CE24)
YUV	184.8260, -73.3712, 13.3076
Hunter-Lab	75.1993, -21.9123, 44.6379

# Details

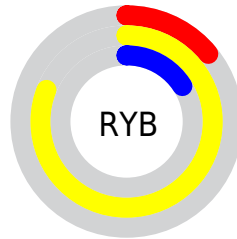
The XYZ color **46.2092, 56.5493, 10.1487** is a dark color, and the websafe version is hex **CCCC33**. The color can be described as middle muted yellow. A complement of this color would be **12.7278, 6.2114, 58.9240**, and the grayscale version is **46.3943, 48.8104, 53.1545**.

A 20% lighter version of the original color is **79.2521, 93.6809, 25.7096**, and **22.3836, 28.2073, 4.2648** is the 20% darker color. If you saturate the color by 10%, you get **45.7871, 56.3602, 8.9327**, and if you desaturate by 10%, it is **46.8156, 56.8165, 12.3193**.

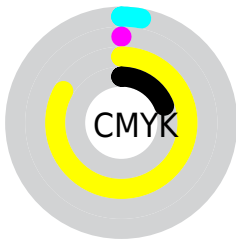
# Distribution



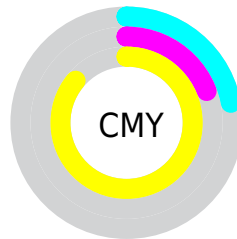
- Red (78%)
- Green (81%)
- Blue (14%)



- Red (14%)
- Yellow (81%)
- Blue (16%)



- Cyan (3%)
- Magenta (0%)
- Yellow (83%)
- Black (19%)




- Cyan (22%)
- Magenta (19%)
- Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.2092, 56.5493, 10.1487 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 46.2092, 56.5493, 10.1487 by changing the saturation by 10% instead.





 46.2092, 56.5493,  
10.1487

 46.2092, 56.5493,  
10.1487


362.3509,  
411.7583, 202.2533

 32.6163, 40.6435,  
5.3908


 83.7579, 99.8073,  
26.6870


 21.9905, 28.0406,  
2.4156


 108.4445,  
127.9282, 39.3044


 13.9665, 18.3563,  
0.7949


 137.5595,  
160.8897, 55.3788

 8.1789, 11.2061,  
0.0000

 171.4685,  
199.0760, 75.3286

 4.2624, 6.2056,  
0.0000

 210.5368,  
242.8717, 99.5724

 1.8516, 2.9705,  
0.0000

 255.1298,

 0.5485, 1.1164,

292.6610, 128.5288

0.0000

305.6127,  
348.8284, 162.6163

■ 0.0000, 0.0000,  
0.0000

■ 46.2092, 56.5493,  
10.1487

■ 46.2092, 56.5493,  
10.1487

■ 45.7871, 56.3602,  
8.9327

■ 46.8156, 56.8165,  
12.3193

■ 45.5535, 56.2501,  
8.4564

■ 47.6295, 57.1647,  
15.5837

■ 48.6749, 57.6056,  
20.0620

■ 49.9714, 58.1470,  
25.8577

■ 51.5365, 58.7960,  
33.0631

■ 53.3863, 59.5589,  
41.7625

■ 55.5353, 60.4417,  
52.0332

■ 57.9975, 61.4498,  
63.9475

■ 60.7855, 62.5884,  
77.5732

# Harmonies

## Analogous

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



61.8292, 56.5493, 10.0991



46.2092, 56.5493, 10.1487



35.0418, 56.5493, 18.5368

# Triad

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



46.2092, 56.5493, 10.1487



35.1605, 56.5493, 145.5869



88.5448, 56.5493, 86.3860

# Complementary

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



46.2092, 56.5493, 10.1487



12.7278, 6.2114, 58.9240

# 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.



78.1502, 56.5493, 144.7867



46.2092, 56.5493, 10.1487



46.4043, 56.5493, 188.7265

# Square

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



46.2092, 56.5493, 10.1487



29.5609, 56.5493, 87.1615



62.0661, 56.5493, 188.3779



88.4643, 56.5493, 41.5570



# Rectangle

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



46.2092, 56.5493, 10.1487



30.7334, 56.5493, 31.9687



62.0661, 56.5493, 188.3779



86.0827, 56.5493, 105.4071

# Sweetspot

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



46.2105, 56.5519, 10.1499



85.6078, 96.1279, 63.4771



26.5902, 14.8830, 3.1411



18.0939, 20.4806, 12.5058



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.



46.2105, 56.5519, 10.1499



73.8085, 91.1331, 13.7736



29.5063, 47.9406, 9.3681



12.1131, 13.0757, 11.9649



28.0669, 34.6443, 5.2077



1.4605, 1.7937, 0.2692



# Inverse Universe

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



12.7278, 6.2114, 58.9240



18.2220, 7.3497, 95.0660



20.4763, 10.2058, 59.2866



10.6378, 10.8626, 14.1064



6.9333, 2.7818, 36.1278



0.3708, 0.1503, 1.8644



# Previews

## White Background



This preview shows how the XYZ color 46.2092, 56.5493, 10.1487 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

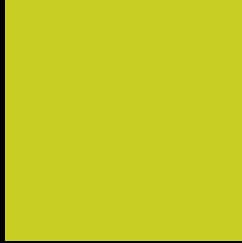
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.2092, 56.5493, 10.1487 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 46.2092, 56.5493, 10.1487**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.2092, 56.5493, 10.1487.



This preview shows how white text looks on a background with the XYZ color 46.2092, 56.5493,



# 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

46.2092, 56.5493, 10.1487

### Protanopia

50.9142, 56.1916, 9.6760

### Deuteranopia

57.5632, 56.3114, 10.5246



## Tritanopia

57.8437, 56.5004, 66.8885

# Trichromacy



## Original Color

46.2092, 56.5493, 10.1487

## Protanomaly

49.2143, 56.3417, 9.8713

## Deuteranomaly

52.9061, 56.1936, 10.3435

## Tritanomaly

51.3716, 55.5321, 34.7993

# Monochromacy



## Original Color

46.2092, 56.5493, 10.1487

## Achromatopsia

46.1135, 48.5150, 52.8328

## Achromatomaly

44.4019, 50.7258, 28.9236

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.2092, 56.5493, 10.1487 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(200, 206, 36)` looks like.

```
.text, #text, p{  
    color:rgb(200, 206, 36)  
}
```

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(200, 206, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 206, 36) }
```

## Border

The CSS property to change the border of an element to XYZ 46.2092, 56.5493, 10.1487 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(200, 206, 36) }
```



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

```
.border{ border-color:rgb(200, 206, 36) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 206, 36)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 206, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 206, 36);  
box-shadow:4px 4px 4px 4px rgb(200, 206,  
36) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.2092, 56.5493, 10.1487 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 206, 36) }
```

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

```
.background{ background-color: rgb(200,  
206, 36) }
```

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