

# Converting Colors

XYZ(37.1459, 45.9932, 88.0184)

Have a look what the booklet for  
XYZ(37.1459, 45.9932, 88.0184)  
contains.

<b>XYZ(37.1083, 45.9856, 87.8092)</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(37.1083, 45.9856,  
87.8092)**

# Conversions

## Conversions Part 1

Format	Color
Hex	44C2EE
RGB	68, 194, 238
RGB Percent	27%, 76%, 93%
CMY	0.7333, 0.2392, 0.0667
CMYK	0.71, 0.18, 0.00, 0.07
HSL	196°, 83%, 60%
HSV	196°, 71%, 93%
XYZ	37.1083, 45.9856, 87.8092
YIQ	161.3420, -89.2200, -13.0280

# Conversions

## Conversions Part 2

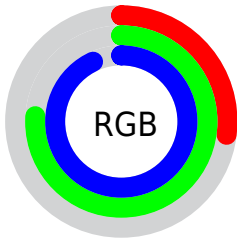
Format	Color
<b>RYB</b>	68, 140, 238
Decimal	4506350
CIELab	73.54, -20.49, -31.79
CIELCh	74, 37.822, 237.191
Yxy	45.9856, 0.2171, 0.2691
Android (android.graphics.Color)	4282696430 (0xFF44C2EE)
YUV	161.3420, 37.7924, -81.8609
Hunter-Lab	67.8127, -20.9938, -29.3045

# Details

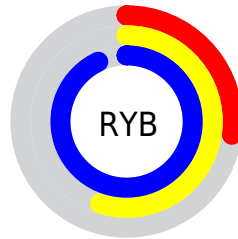
The XYZ color **37.1083, 45.9856, 87.8092** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **42.0992, 30.1853, 9.0781**, and the grayscale version is **33.8968, 35.6620, 38.8360**.

A 20% lighter version of the original color is **62.7005, 81.4486, 107.0242**, and **17.8216, 22.1336, 47.5889** is the 20% darker color. If you saturate the color by 10%, you get **34.4302, 42.6125, 87.3002**, and if you desaturate by 10%, it is **40.5196, 49.8228, 88.3709**.

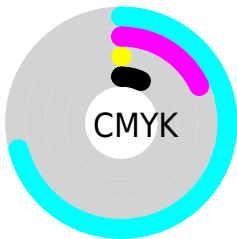
# Distribution



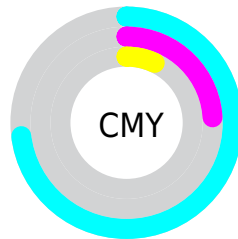
- Red (27%)
- Green (76%)
- Blue (93%)



- Red (27%)
- Yellow (55%)
- Blue (93%)



- Cyan (71%)
- Magenta (18%)
- Yellow (0%)
- Black (7%)



- Cyan (73%)
- Magenta (24%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.1083, 45.9856, 87.8092 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 37.1083, 45.9856, 87.8092 by changing the saturation by 10% instead.



37.1083, 45.9856,  
87.8092

37.1083, 45.9856,  
87.8092

325.1266,  
370.7508, 541.2633

25.4654, 32.2345,  
65.6016

70.0521, 84.1974,  
146.2003

16.5547, 21.5406,  
47.4946

92.0837, 109.4269,  
183.2209

10.0109, 13.5198,  
33.0697

118.3089,  
139.2513, 226.0163

5.4685, 7.7874,  
21.9083

149.0930,  
174.0550, 275.0049

2.5622, 3.9592,  
13.5919

184.8015,  
214.2224, 330.6054

0.9267, 1.6508,  
7.7019

225.7997,

0.0000, 0.3915,

260.1379, 393.2363

3.8197

272.4529,  
312.1859, 463.3161

■ 0.0000, 0.0000,  
1.5270

■ 0.0000, 0.0000,  
0.2379

■ 37.1083, 45.9856,  
87.8092

■ 37.1083, 45.9856,  
87.8092

■ 34.4302, 42.6125,  
87.3002

■ 40.5196, 49.8228,  
88.3709

■ 32.3927, 39.6521,  
86.8362

■ 44.7328, 54.1579,  
88.9856

■ 31.0366, 37.3807,  
86.4692

■ 49.8136, 59.0265,  
89.6576

■ 55.8190, 64.4592,  
90.3897

■ 62.8013, 70.4837,  
91.1845

■ 70.8086, 77.1258,  
92.0445

■ 79.8858, 84.4095,  
92.9720

■ 88.8085, 91.7045,  
93.9098

■ 90.6860, 95.4594,  
94.5357

# Harmonies

## Analogous

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



33.2451, 45.9856, 68.8409



37.1083, 45.9856, 87.8092



43.0812, 45.9856, 96.5577

# Triad

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



37.1083, 45.9856, 87.8092



57.8402, 45.9856, 51.8957



38.0949, 45.9856, 23.9509

# Complementary

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



37.1083, 45.9856, 87.8092



42.0992, 30.1853, 9.0781

# 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.



44.3407, 45.9856, 21.5736



37.1083, 45.9856, 87.8092



56.1635, 45.9856, 35.0657

# Square

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



37.1083, 45.9856, 87.8092



55.4225, 45.9856, 72.7759



51.0470, 45.9856, 25.0709



33.7726, 45.9856, 32.6596



# Rectangle

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



37.1083, 45.9856, 87.8092



47.6171, 45.9856, 94.1000



51.0470, 45.9856, 25.0709



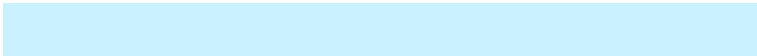
40.0188, 45.9856, 22.4992

# Sweetspot

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



37.1098, 45.9872, 87.8103



73.7552, 82.6933, 106.6818



35.8018, 63.5160, 25.2703



15.2745, 17.2651, 22.7774



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

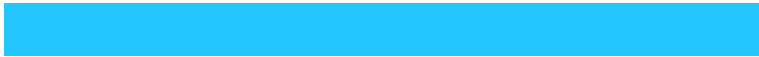


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



37.1098, 45.9872, 87.8103



39.0158, 48.0871, 101.8331



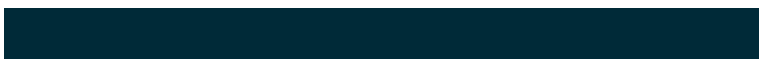
23.4484, 18.6644, 83.2565



15.8810, 17.1960, 20.2038



17.4251, 21.0745, 48.2773



1.5294, 1.9128, 4.0428



# Inverse Universe

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



47.0660, 26.2081, 53.6186



52.0824, 26.5919, 55.9582



55.9322, 57.8511, 13.6891



16.2694, 15.9575, 18.9746



24.1210, 11.9208, 24.3516

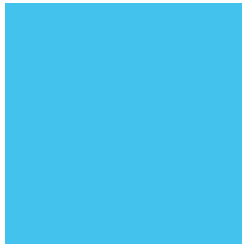


2.0469, 1.0078, 2.2379



# Previews

## White Background



This preview shows how the XYZ color 37.1083, 45.9856, 87.8092 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

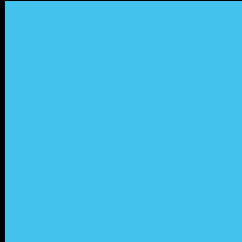
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.1083, 45.9856, 87.8092 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

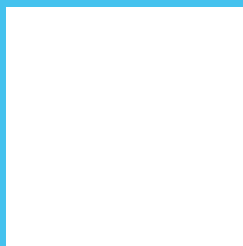
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 37.1083, 45.9856, 87.8092

## Background



This preview shows how black text looks on a background with the XYZ color 37.1083, 45.9856, 87.8092.



This preview shows how white text looks on a background with the XYZ color 37.1083, 45.9856,



# 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

37.1083, 45.9856, 87.8092

### Protanopia

45.3860, 45.1508, 78.2744

### Deuteranopia

46.6494, 45.5365, 90.3351



## Tritanopia

33.6969, 45.9470, 70.7110

# Trichromacy



## Original Color

37.1083, 45.9856, 87.8092

## Protanomaly

40.5765, 44.4054, 81.2954

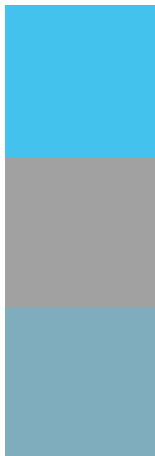
## Deuteranomaly

41.7128, 44.8070, 89.6692

## Tritanomaly

34.9729, 46.1301, 76.8728

# Monochromacy



## Original Color

37.1083, 45.9856, 87.8092

## Achromatopsia

33.8758, 35.6400, 38.8120

## Achromatomaly

32.8813, 38.0733, 53.7600

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.1083, 45.9856, 87.8092 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(68, 194, 238)` looks like.

```
.text, #text, p{  
    color:rgb(68, 194, 238)  
}
```

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(68, 194, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 194, 238) }
```

## Border

The CSS property to change the border of an element to XYZ 37.1083, 45.9856, 87.8092 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(68, 194, 238) }
```



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

```
.border{ border-color:rgb(68, 194, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 194, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 194, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 194, 238);  
box-shadow:4px 4px 4px 4px rgb(68, 194,  
238) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.1083, 45.9856, 87.8092 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 194, 238) }
```

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

```
.background{ background-color: rgb(68, 194,  
238) }
```

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