

# Converting Colors

XYZ(45.1110, 55.2930, 87.5878)

Have a look what the booklet for  
XYZ(45.1110, 55.2930, 87.5878)  
contains.

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# Color

**XYZ(45.1432, 55.3701,  
87.6651)**

# Conversions

## Conversions Part 1

Format	Color
Hex	74D1EC
RGB	116, 209, 236
RGB Percent	45%, 82%, 93%
CMY	0.5451, 0.1804, 0.0745
CMYK	0.51, 0.11, 0.00, 0.07
HSL	193°, 76%, 69%
HSV	193°, 51%, 93%
XYZ	45.1432, 55.3701, 87.6651
YIQ	184.2710, -64.0950, -11.3190

# Conversions

## Conversions Part 2

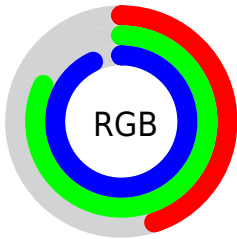
Format	Color
R <sub>YB</sub>	116, 168, 236
Decimal	7655916
CIE Lab	79.25, -20.47, -21.83
CIE LCh	79, 29.923, 226.844
Yxy	55.3701, 0.2399, 0.2942
Android (android.graphics.Color)	4285845996 (0xFF74D1EC)
YUV	184.2710, 25.5024, -59.8737
Hunter-Lab	74.4111, -21.9283, -17.7629

# Details

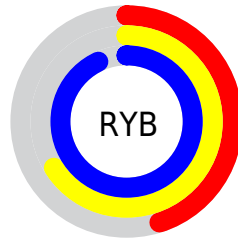
The XYZ color **45.1432, 55.3701, 87.6651** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **47.5681, 38.7399, 21.4949**, and the grayscale version is **45.6001, 47.9748, 52.2446**.

A 20% lighter version of the original color is **71.4892, 87.8540, 107.7974**, and **21.2620, 27.1634, 47.3024** is the 20% darker color. If you saturate the color by 10%, you get **41.1148, 51.3927, 87.1107**, and if you desaturate by 10%, it is **50.0152, 59.8493, 88.2739**.

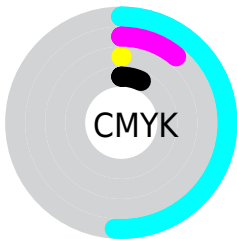
# Distribution



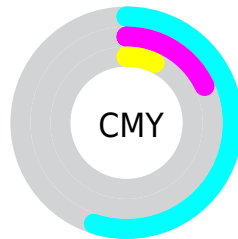
- Red (45%)
- Green (82%)
- Blue (93%)



- Red (45%)
- Yellow (66%)
- Blue (93%)



- Cyan (51%)
- Magenta (11%)
- Yellow (0%)
- Black (7%)



- Cyan (55%)
- Magenta (18%)
- Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.1432, 55.3701, 87.6651 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 45.1432, 55.3701, 87.6651 by changing the saturation by 10% instead.



■ 45.1432, 55.3701,  
87.6651

■ 45.1432, 55.3701,  
87.6651

358.1272,  
407.3133, 540.7787

■ 31.7720, 39.6981,  
65.4830

■ 82.1710, 98.0830,  
145.9979

■ 21.3421, 27.3032,  
47.3990

■ 106.5583,  
125.8927, 182.9856

■ 13.4882, 17.8011,  
32.9946

■ 135.3483,  
158.5171, 225.7456

■ 7.8449, 10.8073,  
21.8512

168.9065,  
196.3406, 274.6964

■ 4.0468, 5.9374,  
13.5503

207.5981,  
239.7476, 330.2566

■ 1.7287, 2.8071,  
7.6734

251.7885,

■ 0.4741, 1.0318,

289.1224, 392.8447

3.8019

301.8431,  
344.8495, 462.8792

■ 0.0000, 0.0000,  
1.5173

■ 0.0000, 0.0000,  
0.2308

■ 45.1432, 55.3701,  
87.6651

■ 45.1432, 55.3701,  
87.6651

■ 41.1148, 51.3927,  
87.1107

■ 50.0152, 59.8493,  
88.2739

■ 37.8629, 47.8782,  
86.6037

■ 55.7812, 64.8532,  
88.9358

■ 35.3181, 44.7915,  
86.1421

■ 62.4935, 70.4106,  
89.6547

■ 33.3957, 42.0882,  
85.7216

■ 70.1988, 76.5462,  
90.4329

■ 32.0541, 39.8835,  
85.3668

■ 78.9407, 83.2830,  
91.2725

■ 87.7950, 90.1452,  
92.1304

■ 89.3886, 93.3323,  
92.6616

■ 91.0283, 96.6119,  
93.2082

■ 92.1405, 98.8362,  
93.5789

# Harmonies

## Analogous

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



42.3651, 55.3701, 70.3508



45.1432, 55.3701, 87.6651



50.0520, 55.3701, 98.4073

# Triad

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



45.1432, 55.3701, 87.6651



64.6461, 55.3701, 68.1041



49.3633, 55.3701, 33.9291

# Complementary

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



45.1432, 55.3701, 87.6651



47.5681, 38.7399, 21.4949

# 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.



55.2901, 55.3701, 33.5562



45.1432, 55.3701, 87.6651



64.4264, 55.3701, 51.2348

# Square

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



45.1432, 55.3701, 87.6651



61.4758, 55.3701, 85.7540



60.8967, 55.3701, 39.3026



44.6720, 55.3701, 40.4412



# Rectangle

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



45.1432, 55.3701, 87.6651



54.0108, 55.3701, 99.2832



60.8967, 55.3701, 39.3026



51.2682, 55.3701, 33.1318

# Sweetspot

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



45.1450, 55.3722, 87.6664



79.6668, 88.0850, 107.4110



42.0817, 65.6581, 36.0482



16.6373, 18.5233, 22.9484



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

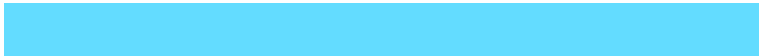


# Same Dimension

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



45.1450, 55.3722, 87.6664



48.8389, 61.0860, 103.8244



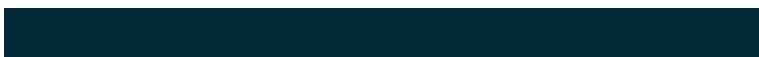
33.2506, 31.5835, 83.7016



15.2136, 16.5136, 19.3078



17.7699, 22.1868, 47.0889



1.4657, 1.8829, 3.7211



# Inverse Universe

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



52.3475, 34.9286, 64.3068



58.6633, 35.4367, 71.4603



58.8663, 61.3363, 25.2610



15.5614, 15.2524, 18.2414



23.8247, 11.7326, 25.9421

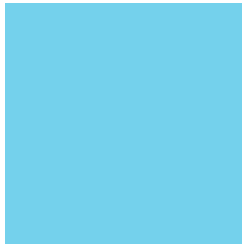


1.9063, 0.9355, 2.2241



# Previews

## White Background



This preview shows how the XYZ color 45.1432, 55.3701, 87.6651 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

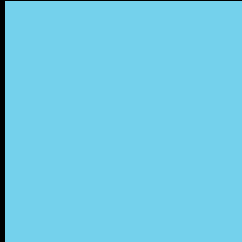
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.1432, 55.3701, 87.6651 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 45.1432, 55.3701, 87.6651

## Background



This preview shows how black text looks on a background with the XYZ color 45.1432, 55.3701, 87.6651.



This preview shows how white text looks on a background with the XYZ color 45.1432, 55.3701,



# 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

45.1432, 55.3701, 87.6651

### Protanopia

54.0055, 54.8934, 79.7006

### Deuteranopia

56.0972, 54.7593, 90.0510



## **Tritanopia**

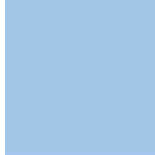
43.7218, 55.1499, 81.0137

# Trichromacy



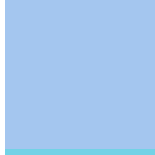
## Original Color

45.1432, 55.3701, 87.6651



## Protanomaly

49.6066, 54.2414, 82.7180



## Deuteranomaly

51.0839, 54.5127, 89.4909



## Tritanomaly

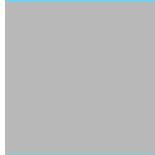
44.2690, 55.3838, 83.2198

# Monochromacy



## Original Color

45.1432, 55.3701, 87.6651



## Achromatopsia

45.5594, 47.9320, 52.1980



## Achromatomaly

44.1475, 49.8227, 63.7898

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.1432, 55.3701, 87.6651 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(116, 209, 236)` looks like.

```
.text, #text, p{  
    color:rgb(116, 209, 236)  
}
```

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(116, 209, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 209, 236) }
```

## Border

The CSS property to change the border of an element to XYZ 45.1432, 55.3701, 87.6651 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(116, 209, 236) }
```



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

```
.border{ border-color:rgb(116, 209, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 209, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(116, 209, 236); -webkit-box-shadow:4px 4px 4px 4px rgb(116, 209, 236); box-shadow:4px 4px 4px 4px rgb(116, 209, 236) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.1432, 55.3701, 87.6651 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 209, 236) }
```

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

```
.background{ background-color: rgb(116,  
209, 236) }
```

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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