

# Converting Colors

XYZ(42.3299, 53.7531,  
102.7521)

Have a look what the booklet for  
XYZ(42.3299, 53.7531, 102.7521)  
contains.

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# Color

**XYZ(42.2157, 53.5247,  
102.7140)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33D1FF
RGB	51, 209, 255
RGB Percent	20%, 82%, 100%
CMY	0.7999, 0.1804, 0.0000
CMYK	0.80, 0.18, 0.00, 0.00
HSL	194°, 100%, 60%
HSV	194°, 80%, 100%
XYZ	42.2157, 53.5247, 102.7140
YIQ	167.0020, -108.9340, -19.1900

# Conversions

## Conversions Part 2

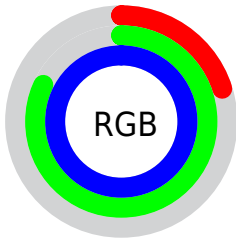
Format	Color
R <sub>YB</sub>	51, 140, 255
Decimal	3396095
CIE <sub>Lab</sub>	78.18, -24.48, -33.76
CIE <sub>LCh</sub>	78, 41.702, 234.061
Y <sub>xy</sub>	53.5247, 0.2127, 0.2697
Android (android.graphics.Color)	4281586175 (0xFF33D1FF)
Y <sub>UV</sub>	167.0020, 43.3830, -101.7338
Hunter-Lab	73.1606, -25.0315, -32.0280

# Details

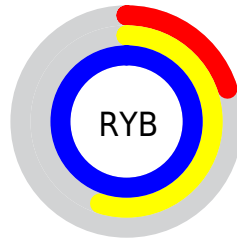
The XYZ color **42.2157, 53.5247, 102.7140** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **46.1142, 30.0517, 6.5043**, and the grayscale version is **36.5683, 38.4727, 41.8968**.

A 20% lighter version of the original color is **63.0159, 83.4858, 107.4008**, and **21.7486, 27.1884, 57.5277** is the 20% darker color. If you saturate the color by 10%, you get **39.8794, 50.2645, 102.2079**, and if you desaturate by 10%, it is **45.3095, 57.2529, 103.2706**.

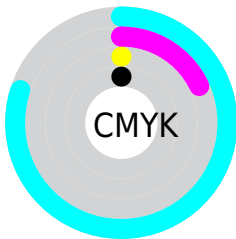
# Distribution



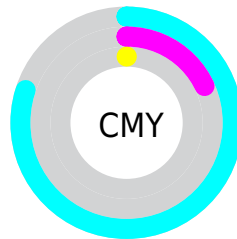
- Red (20%)
- Green (82%)
- Blue (100%)



- Red (20%)
- Yellow (55%)
- Blue (100%)



- Cyan (80%)
- Magenta (18%)
- Yellow (0%)
- Black (0%)



- Cyan (80%)
- Magenta (18%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.2157, 53.5247, 102.7140 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 42.2157, 53.5247, 102.7140 by changing the saturation by 10% instead.



42.2157, 53.5247,  
102.7140

42.2157, 53.5247,  
102.7140

346.3528,  
400.2949, 590.1802

29.4621, 38.2218,  
77.9396

77.7891, 95.3760,  
166.9662

19.5767, 26.1549,  
57.5082

101.3396,  
122.6932, 207.2810

12.1942, 16.9395,  
41.0013

129.2197,  
154.7840, 253.6130

6.9492, 10.1914,  
28.0004

161.7949,  
192.0327, 306.3808

3.4764, 5.5260,  
18.0869

199.4304,  
234.8237, 366.0029

1.4104, 2.5591,  
10.8423

242.4916,

0.2636, 0.9061,

283.5415, 432.8978

5.8481

291.3440,  
338.5705, 507.4840

■ 0.0000, 0.0000,  
2.6856

■ 0.0000, 0.0000,  
0.9362

■ 42.2157, 53.5247,  
102.7140

■ 42.2157, 53.5247,  
102.7140

■ 39.8794, 50.2645,  
102.2079

■ 45.3095, 57.2529,  
103.2706

■ 38.1307, 47.3811,  
101.7435

■ 49.2571, 61.4968,  
103.8817

■ 38.1295, 47.3790,  
101.7432

■ 54.1452, 66.3026,  
104.5517

■ 60.0481, 71.7094,  
105.2842

■ 67.0323, 77.7523,  
106.0824

■ 75.1587, 84.4633,  
106.9495

■ 84.4833, 91.8721,  
107.8881

■ 95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

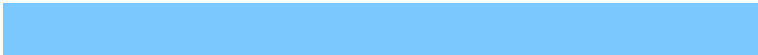
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



37.8590, 53.5247, 78.5687



42.2157, 53.5247, 102.7140



49.2686, 53.5247, 115.3159

# Triad

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



42.2157, 53.5247, 102.7140



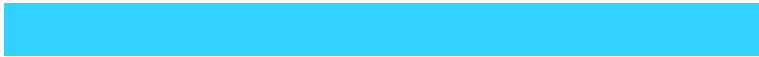
68.1145, 53.5247, 63.0496



44.7457, 53.5247, 26.1434

# Complementary

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



42.2157, 53.5247, 102.7140



46.1142, 30.0517, 6.5043

# 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.



52.5131, 53.5247, 24.0567



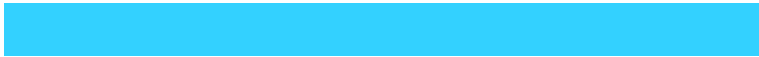
42.2157, 53.5247, 102.7140



66.5737, 53.5247, 41.8232

# Square

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



42.2157, 53.5247, 102.7140



64.6518, 53.5247, 88.8034



60.6411, 53.5247, 28.9614



39.2068, 53.5247, 35.6992



# Rectangle

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



42.2157, 53.5247, 102.7140



54.7784, 53.5247, 113.5841



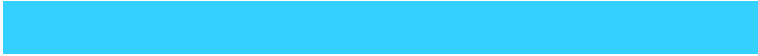
60.6411, 53.5247, 28.9614



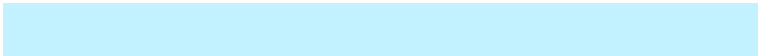
47.1590, 53.5247, 24.6741

# Sweetspot

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



42.2173, 53.5265, 102.7143



71.7612, 81.6916, 106.5936



39.2016, 73.0544, 22.9126



14.7473, 16.9777, 22.7497



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

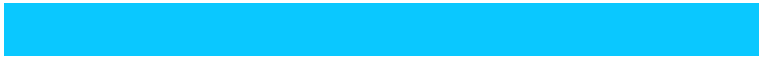


# Same Dimension

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



42.2173, 53.5265, 102.7143



38.7852, 48.5008, 101.9251



24.8650, 18.8219, 96.9302



18.1871, 19.7457, 23.1027



20.0408, 24.9911, 53.2021



2.0324, 2.5954, 5.2071



# Inverse Universe

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



53.9336, 28.2329, 62.9302



51.7524, 25.6421, 56.7416



61.8509, 61.5251, 11.7498



18.6071, 18.2261, 21.8139



26.9039, 13.2508, 29.2079

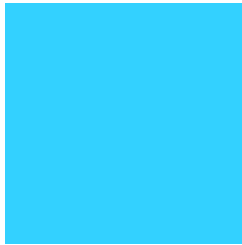


2.6604, 1.3066, 3.0593



# Previews

## White Background



This preview shows how the XYZ color 42.2157, 53.5247, 102.7140 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

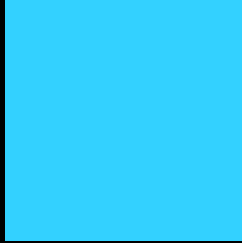
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.2157, 53.5247, 102.7140 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

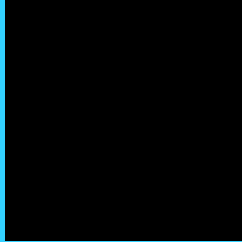
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

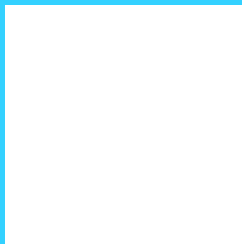
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 42.2157, 53.5247, 102.7140

## Background



This preview shows how black text looks on a background with the XYZ color 42.2157, 53.5247, 102.7140.



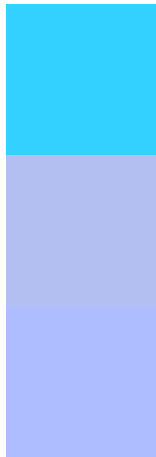
This preview shows how white text looks on a background with the XYZ color 42.2157, 53.5247,



# 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

42.2157, 53.5247, 102.7140

### Protanopia

52.8810, 52.7615, 90.6159

### Deuteranopia

53.7032, 52.6139, 101.9328



## Tritanopia

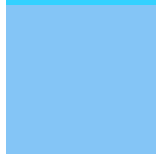
38.2556, 53.3774, 83.8879

# Trichromacy



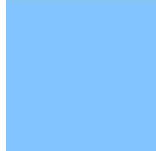
## Original Color

42.2157, 53.5247, 102.7140



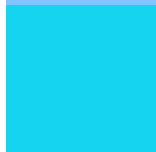
## Protanomaly

46.1165, 51.4919, 94.6971



## Deuteranomaly

46.8432, 51.3670, 102.0537



## Tritanomaly

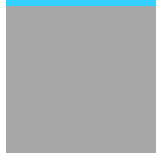
39.5602, 53.5270, 90.6848

# Monochromacy



## Original Color

42.2157, 53.5247, 102.7140



## Achromatopsia

36.7301, 38.6429, 42.0822



## Achromatomaly

35.4942, 41.9394, 60.2572

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.2157, 53.5247, 102.7140 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(51, 209, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 209, 255)  
}
```

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(51, 209, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 209, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 42.2157, 53.5247, 102.7140 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(51, 209, 255) }
```



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

```
.border{ border-color:rgb(51, 209, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 209, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 209, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 209, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 209,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.2157, 53.5247, 102.7140 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 209, 255) }
```

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

```
.background{ background-color: rgb(51, 209,  
255) }
```

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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