

# Converting Colors

XYZ(45.2304, 75.5529, 50.7333)

Have a look what the booklet for  
XYZ(45.2304, 75.5529, 50.7333)  
contains.

<b>XYZ(45.2250, 75.5503, 50.7271)</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(45.2250, 75.5503,  
50.7271)**

# Conversions

## Conversions Part 1

Format	Color
Hex	40FFAB
RGB	64, 255, 171
RGB Percent	25%, 100%, 67%
CMY	0.7490, 0.0000, 0.3294
CMYK	0.75, 0.00, 0.33, 0.00
HSL	154°, 100%, 63%
HSV	154°, 75%, 100%
XYZ	45.2250, 75.5503, 50.7271
YIQ	188.3150, -86.8720, -66.6160

# Conversions

## Conversions Part 2

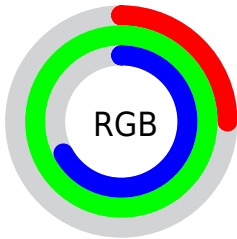
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">64, 186, 255</a>
Decimal	<a href="#">4259755</a>
CIELab	<a href="#">89.65, -65.04, 27.11</a>
CIELCh	<a href="#">90, 70.466, 157.373</a>
Yxy	<a href="#">75.5503, 0.2637, 0.4405</a>
Android (android.graphics.Color)	<a href="#">4282449835 (0xFF40FFAB)</a>
YUV	<a href="#">188.3150, -8.5363, -109.0243</a>
Hunter-Lab	<a href="#">86.9197, -59.2345, 26.2416</a>

# Details

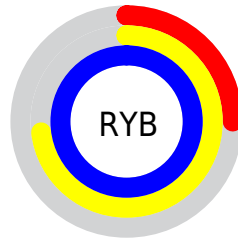
The XYZ color **45.2250, 75.5503, 50.7271** is a light color, and the websafe version is hex **33FF99**. The color can be described as light washed spring green. A complement of this color would be **48.4191, 27.0655, 30.6901**, and the grayscale version is **48.0619, 50.5649, 55.0652**.

A 20% lighter version of the original color is **59.9417, 82.3844, 85.4156**, and **23.2363, 41.2405, 23.8751** is the 20% darker color. If you saturate the color by 10%, you get **42.9047, 74.4724, 45.2738**, and if you desaturate by 10%, it is **48.3944, 77.0553, 56.6962**.

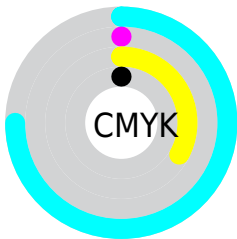
# Distribution



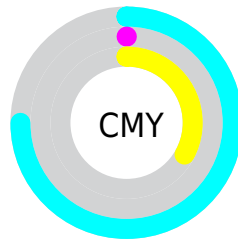
- Red (25%)
- Green (100%)
- Blue (67%)



- Red (25%)
- Yellow (73%)
- Blue (100%)



- Cyan (75%)
- Magenta (0%)
- Yellow (33%)
- Black (0%)




- Cyan (75%)
- Magenta (0%)
- Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.2250, 75.5503, 50.7271 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 45.2250, 75.5503, 50.7271 by changing the saturation by 10% instead.





 45.2250, 75.5503,  
50.7271


 45.2250, 75.5503,  
50.7271


358.4524,  
479.8069, 406.3188


 31.8367, 56.0638,  
35.6163


 82.2929, 127.0910,  
92.6586


 21.3918, 40.2541,  
23.8506


 106.7033,  
159.9141, 120.3164

 13.5248, 27.7367,  
15.0117


 135.5184,  
197.9515, 152.9935

 7.8704, 18.1273,  
8.6809

 169.1036,  
241.5875, 191.1086

 4.0632, 11.0414,  
4.4397

207.8242,  
291.2067, 235.0801

 1.7380, 6.0947,  
1.8695

252.0457,

 0.4799, 2.9027,

347.1934, 285.3266

0.4732

302.1333,  
409.9320, 342.2667

■ 0.0000, 1.0812,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 45.2250, 75.5503,  
50.7271

■ 45.2250, 75.5503,  
50.7271

■ 42.9047, 74.4724,  
45.2738

■ 48.3944, 77.0553,  
56.6962

■ 41.3168, 73.7619,  
40.3153

■ 52.5047, 79.0347,  
63.1929

■ 40.7069, 73.4987,  
37.9698

■ 57.6372, 81.5301,  
70.2331

■ 63.8635, 84.5782,  
77.8307

■ 71.2486, 88.2121,  
85.9991

■ 79.8519, 92.4625,  
94.7510

■ 89.7292, 97.3578,  
104.0985

■ 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.



53.4153, 75.5503, 27.3269



45.2250, 75.5503, 50.7271



43.5630, 75.5503, 95.1304

# Triad

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



45.2250, 75.5503, 50.7271



76.1714, 75.5503, 217.9081



101.6906, 75.5503, 36.8549

# Complementary

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



45.2250, 75.5503, 50.7271



48.4191, 27.0655, 30.6901

# 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.



110.2000, 75.5503, 70.6088



45.2250, 75.5503, 50.7271



94.0023, 75.5503, 183.8443

# Square

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



45.2250, 75.5503, 50.7271



59.7317, 75.5503, 205.5905



107.1808, 75.5503, 124.7290



85.4119, 75.5503, 21.8619



# Rectangle

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



45.2250, 75.5503, 50.7271



46.0875, 75.5503, 134.4252



107.1808, 75.5503, 124.7290



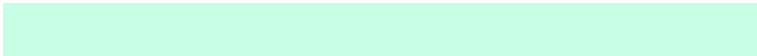
105.6646, 75.5503, 45.7118

# Sweetspot

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



45.2256, 75.5505, 50.7284



73.6157, 89.3800, 88.4767



49.2545, 78.3697, 17.3821



15.2824, 18.8969, 18.4415



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.



45.2256, 75.5505, 50.7284



42.0118, 74.0685, 42.6842



52.9534, 73.8877, 106.0786



18.1977, 20.3386, 21.3441



21.3466, 38.4352, 20.2424



2.1334, 3.7643, 2.2604



# Inverse Universe

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



48.4191, 27.0655, 30.6901



45.3922, 23.4944, 22.0274



44.5847, 26.4685, 7.6102



18.3412, 18.1198, 20.4140



23.1533, 11.7506, 9.4578

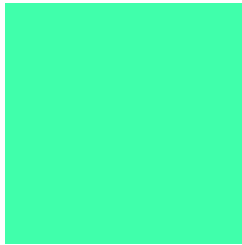


2.3082, 1.1656, 1.2042



# Previews

## White Background



This preview shows how the XYZ color 45.2250, 75.5503, 50.7271 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 45.2250, 75.5503, 50.7271 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

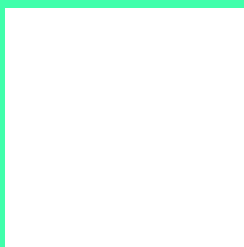
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 45.2250, 75.5503, 50.7271**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.2250, 75.5503, 50.7271.



This preview shows how white text looks on a background with the XYZ color 45.2250, 75.5503,



# Color Blindness Simulation

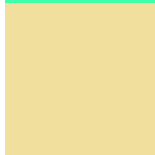
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



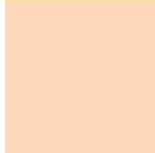
### Original Color

45.2250, 75.5503, 50.7271



### Protanopia

68.7491, 73.9104, 42.5410



### Deuteranopia

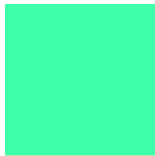
74.7655, 73.9596, 57.3488



## Tritanopia

60.2442, 74.7926, 105.8690

# Trichromacy



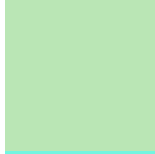
## Original Color

45.2250, 75.5503, 50.7271



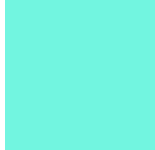
## Protanomaly

54.3614, 71.3724, 45.0935



## Deuteranomaly

56.8870, 70.3689, 54.3004



## Tritanomaly

53.0464, 74.2640, 82.0596

# Monochromacy



## Original Color

45.2250, 75.5503, 50.7271



## Achromatopsia

47.7994, 50.2886, 54.7643



## Achromatomaly

43.3147, 56.3040, 52.8408

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.2250, 75.5503, 50.7271 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(64, 255, 171)` looks like.

```
.text, #text, p{  
    color:rgb(64, 255, 171)  
}
```

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(64, 255, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 255, 171) }
```

## Border

The CSS property to change the border of an element to XYZ 45.2250, 75.5503, 50.7271 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(64, 255, 171) }
```



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

```
.border{ border-color:rgb(64, 255, 171) }
```

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

Here you see how a box with a 4 pixel rgb(64, 255, 171) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 255, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 255, 171);  
box-shadow:4px 4px 4px 4px rgb(64, 255,  
171) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.2250, 75.5503, 50.7271 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 255, 171) }
```

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

```
.background{ background-color: rgb(64, 255,  
171) }
```

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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