

# Converting Colors

XYZ(47.4412, 73.0504, 68.3698)

Have a look what the booklet for  
XYZ(47.4412, 73.0504, 68.3698)  
contains.

<b>XYZ(47.4075, 73.0244, 68.0964)</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(47.4075, 73.0244,  
68.0964)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4DF8CB
RGB	77, 248, 203
RGB Percent	30%, 97%, 80%
CMY	0.6980, 0.0274, 0.2039
CMYK	0.69, 0.00, 0.18, 0.03
HSL	164°, 92%, 64%
HSV	164°, 69%, 97%
XYZ	47.4075, 73.0244, 68.0964
YIQ	191.7410, -87.4710, -50.2470

# Conversions

## Conversions Part 2

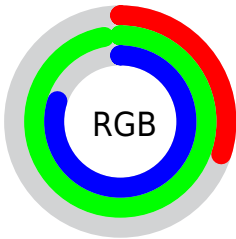
Format	Color
<a href="#">RYB</a>	<a href="#">77, 175, 248</a>
Decimal	<a href="#">5109963</a>
CIELab	<a href="#">88.46, -53.73, 9.07</a>
CIELCh	<a href="#">88, 54.488, 170.421</a>
Yxy	<a href="#">73.0244, 0.2515, 0.3873</a>
Android (android.graphics.Color)	<a href="#">4283300043 (0xFF4DF8CB)</a>
YUV	<a href="#">191.7410, 5.5507, -100.6279</a>
Hunter-Lab	<a href="#">85.4543, -50.5186, 12.5713</a>

# Details

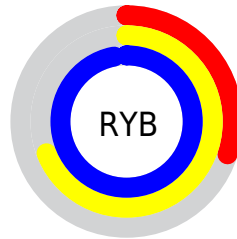
The XYZ color **47.4075, 73.0244, 68.0964** is a light color, and the websafe version is hex **66FFCC**. The color can be described as light washed cyan. A complement of this color would be **44.8806, 26.6713, 21.1980**, and the grayscale version is **49.9593, 52.5611, 57.2390**.

A 20% lighter version of the original color is **65.4871, 84.7597, 107.5165**, and **24.0556, 39.4315, 34.7770** is the 20% darker color. If you saturate the color by 10%, you get **45.0135, 71.8800, 64.0104**, and if you desaturate by 10%, it is **50.6006, 74.5805, 72.3940**.

# Distribution



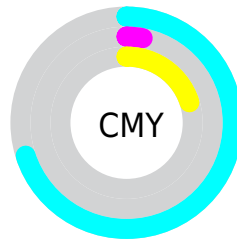
- Red (30%)
- Green (97%)
- Blue (80%)



- Red (30%)
- Yellow (69%)
- Blue (97%)



- Cyan (69%)
- Magenta (0%)
- Yellow (18%)
- Black (3%)




- Cyan (70%)
- Magenta (3%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.4075, 73.0244, 68.0964 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 47.4075, 73.0244, 68.0964 by changing the saturation by 10% instead.




 47.4075, 73.0244,  
68.0964


 47.4075, 73.0244,  
68.0964


367.0606,  
471.0994, 472.4448


 33.5672, 53.9959,  
49.5090


 85.5366, 123.5118,  
118.1456


 22.7226, 38.5984,  
34.6550


 110.5562,  
155.7396, 150.4444

 14.5084, 26.4474,  
23.1158


 140.0328,  
193.1359, 188.1508

 8.5592, 17.1587,  
14.4729

 174.3320,  
236.0851, 231.6832

 4.5096, 10.3477,  
8.3078

213.8190,  
284.9717, 281.4603

 1.9943, 5.6301,  
4.2020

258.8592,

 0.6307, 2.6215,

340.1800, 337.9006

1.7368

309.8179,  
402.0944, 401.4226

■ 0.0000, 0.9375,  
0.3858

■ 0.0000, 0.0000,  
0.0000

■ 47.4075, 73.0244,  
68.0964

■ 47.4075, 73.0244,  
68.0964

■ 45.0135, 71.8800,  
64.0104

■ 50.6006, 74.5805,  
72.3940

■ 43.3201, 71.0913,  
60.1244


■ 54.6646, 76.5800,  
76.9038


■ 42.1925, 70.5906,  
56.4317


■ 59.6701, 79.0610,  
81.6326


■ 42.0884, 70.5452,  
56.0539

■ 65.6785, 82.0550,  
86.5854

 72.7460, 85.5911,  
91.7666

 80.9245, 89.6959,  
97.1807

 90.2625, 94.3944,  
102.8317

 92.8586, 95.6173,  
108.1695

# Harmonies

## Analogous

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



51.7411, 73.0244, 41.8246



47.4075, 73.0244, 68.0964



48.3696, 73.0244, 107.4424

# Triad

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



47.4075, 73.0244, 68.0964



78.5760, 73.0244, 168.1298



86.7322, 73.0244, 35.8512

# Complementary

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



47.4075, 73.0244, 68.0964



44.8806, 26.6713, 21.1980

# 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.



95.8017, 73.0244, 56.8959



47.4075, 73.0244, 68.0964



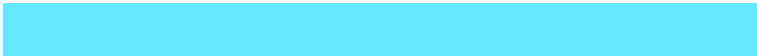
90.6969, 73.0244, 134.9243

# Square

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



47.4075, 73.0244, 68.0964



65.2981, 73.0244, 174.0110



97.3375, 73.0244, 92.1352



73.6858, 73.0244, 27.4688



# Rectangle

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



47.4075, 73.0244, 68.0964



51.9370, 73.0244, 136.0829



97.3375, 73.0244, 92.1352



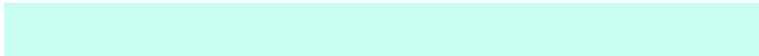
90.4128, 73.0244, 41.2977

# Sweetspot

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



47.4095, 73.0273, 68.0981



75.8318, 90.3453, 96.5879



43.0206, 71.8552, 18.6245



15.7751, 19.1093, 20.3449



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.



47.4095, 73.0273, 68.0981



47.1146, 76.1786, 66.4358



42.5865, 53.5185, 96.8958



17.5593, 19.5260, 21.1460



22.7962, 38.1315, 30.5997



2.1549, 3.5491, 3.0636



# Inverse Universe

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



44.8806, 26.6713, 21.1980



44.3712, 23.9151, 14.0946



46.4030, 33.1939, 10.9839



17.4321, 17.3002, 18.8653



21.4804, 11.0079, 3.9720

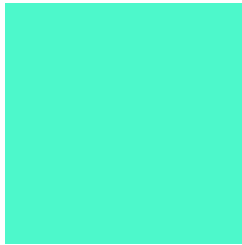


2.0311, 1.0362, 0.5873



# Previews

## White Background



This preview shows how the XYZ color 47.4075, 73.0244, 68.0964 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

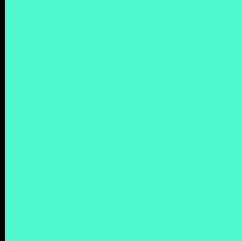
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.4075, 73.0244, 68.0964 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

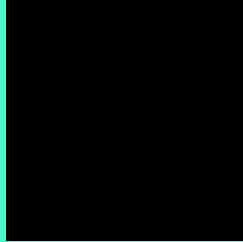
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 47.4075, 73.0244, 68.0964**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.4075, 73.0244, 68.0964.



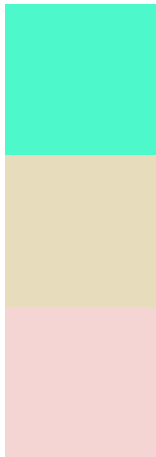
This preview shows how white text looks on a background with the XYZ color 47.4075, 73.0244,



# 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

47.4075, 73.0244, 68.0964

### Protanopia

67.6253, 71.8062, 57.8727

### Deuteranopia

73.2083, 71.7041, 71.6098



## Tritanopia

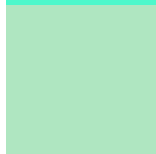
57.2287, 72.8047, 105.6442

# Trichromacy



## Original Color

47.4075, 73.0244, 68.0964



## Protanomaly

55.6016, 69.5578, 60.9476



## Deuteranomaly

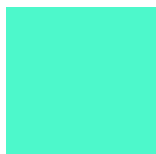
58.3487, 69.1371, 69.9440



## Tritanomaly

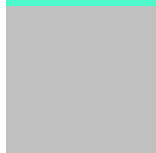
53.0768, 72.7485, 90.6013

# Monochromacy



## Original Color

47.4075, 73.0244, 68.0964



## Achromatopsia

50.1023, 52.7115, 57.4028



## Achromatomaly

46.0850, 57.5565, 60.9051

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.4075, 73.0244, 68.0964 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(77, 248, 203)` looks like.

```
.text, #text, p{  
    color:rgb(77, 248, 203)  
}
```

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(77, 248, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 248, 203) }
```

## Border

The CSS property to change the border of an element to XYZ 47.4075, 73.0244, 68.0964 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(77, 248, 203) }
```



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

```
.border{ border-color:rgb(77, 248, 203) }
```

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

Here you see how a box with a 4 pixel `rgb(77, 248, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 248, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 248, 203);  
box-shadow:4px 4px 4px 4px rgb(77, 248,  
203) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.4075, 73.0244, 68.0964 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 248, 203) }
```

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

```
.background{ background-color: rgb(77, 248,  
203) }
```

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