

# Converting Colors

XYZ(47.7336, 63.0816, 82.2981)

Have a look what the booklet for  
XYZ(47.7336, 63.0816, 82.2981)  
contains.

<b>XYZ(47.7298, 62.9739, 82.3126)</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(47.7298, 62.9739,  
82.3126)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72E1E3
RGB	114, 225, 227
RGB Percent	45%, 88%, 89%
CMY	0.5529, 0.1176, 0.1098
CMYK	0.50, 0.01, 0.00, 0.11
HSL	181°, 67%, 67%
HSV	181°, 50%, 89%
XYZ	47.7298, 62.9739, 82.3126
YIQ	192.0390, -66.7980, -22.9100

# Conversions

## Conversions Part 2

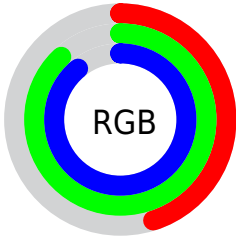
Format	Color
<a href="#">RYB</a>	<a href="#">114, 170, 227</a>
Decimal	<a href="#">7528931</a>
CIELab	<a href="#">83.43, -31.15, -10.76</a>
CIELCh	<a href="#">83, 32.956, 199.065</a>
Yxy	<a href="#">62.9739, 0.2473, 0.3263</a>
Android (android.graphics.Color)	<a href="#">4285719011 (0xFF72E1E3)</a>
YUV	<a href="#">192.0390, 17.2358, -68.4402</a>
Hunter-Lab	<a href="#">79.3561, -31.5119, -5.9497</a>

# Details

The XYZ color **47.7298, 62.9739, 82.3126** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **40.9624, 30.0377, 19.5601**, and the grayscale version is **50.0579, 52.6648, 57.3520**.

A 20% lighter version of the original color is **71.0436, 87.6242, 107.7765**, and **22.9010, 32.0075, 44.0008** is the 20% darker color. If you saturate the color by 10%, you get **45.0277, 61.4215, 82.1565**, and if you desaturate by 10%, it is **51.1685, 64.9093, 82.5061**.

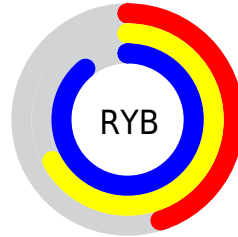
# Distribution



Red (45%)

Green (88%)

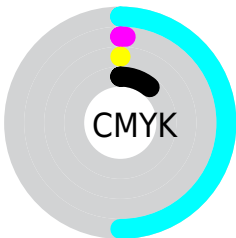
Blue (89%)



Red (45%)

Yellow (67%)

Blue (89%)

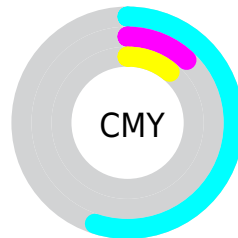


Cyan (50%)

Magenta (1%)

Yellow (0%)

Black (11%)



Cyan (55%)

Magenta (12%)

Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.7298, 62.9739, 82.3126 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 47.7298, 62.9739, 82.3126 by changing the saturation by 10% instead.



47.7298, 62.9739,  
82.3126

47.7298, 62.9739,  
82.3126

368.3206,  
435.4748, 522.6036

33.8233, 45.8201,  
61.0859

86.0141, 109.1319,  
138.4529

22.9201, 32.1039,  
43.8635

111.1226,  
138.9048, 174.2036

14.6549, 21.4409,  
30.2268

140.6959,  
173.6529, 215.6327

8.6623, 13.4466,  
19.7573

175.0992,  
213.7606, 263.1588

4.5769, 7.7368,  
12.0364

214.6980,  
259.6122, 317.2004

2.0334, 3.9270,  
6.6456

259.8576,

0.6526, 1.6328,

311.5922, 378.1760

3.1664

310.9433,  
370.0849, 446.5043

■ 0.0000, 0.3796,  
1.1802

■ 0.0000, 0.0000,  
0.0000

■ 47.7298, 62.9739,  
82.3126

■ 47.7298, 62.9739,  
82.3126

■ 45.0277, 61.4215,  
82.1565

■ 51.1685, 64.9093,  
82.5061

■ 43.0014, 60.2164,  
82.0307


■ 55.3878, 67.2461,  
82.7347


■ 41.5896, 59.3284,  
81.9337


■ 60.4346, 70.0099,  
83.0022


■ 40.7176, 58.7192,  
81.8620

■ 66.3510, 73.2223,  
83.3104


 40.2585, 58.3231,  
81.8098


 73.1757, 76.9034,  
83.6612

 40.2498, 58.3151,  
81.8087

 80.9455, 81.0720,  
84.0563

 82.7974, 82.1902,  
84.1746

 82.9078, 82.4111,  
84.2114

 83.0185, 82.6324,  
84.2483

# Harmonies

## Analogous

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



47.2955, 62.9739, 61.3364



47.7298, 62.9739, 82.3126



51.2559, 62.9739, 102.9905

# Triad

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



47.7298, 62.9739, 82.3126



70.9036, 62.9739, 97.8784



62.5126, 62.9739, 36.6087

# Complementary

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



47.7298, 62.9739, 82.3126



40.9624, 30.0377, 19.5601

# 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.



69.3653, 62.9739, 42.8224



47.7298, 62.9739, 82.3126



74.4613, 62.9739, 76.3465

# Square

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



47.7298, 62.9739, 82.3126



64.4792, 62.9739, 113.1459



73.8768, 62.9739, 56.4453



55.4570, 62.9739, 37.5719

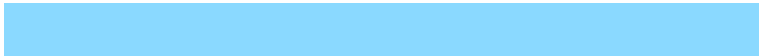


# Rectangle

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



47.7298, 62.9739, 82.3126



55.0554, 62.9739, 112.5304



73.8768, 62.9739, 56.4453



64.9254, 62.9739, 37.8684

# Sweetspot

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



47.7317, 62.9763, 82.3141



82.1356, 93.0227, 108.2339



37.5556, 59.7751, 26.0474



17.2380, 19.7246, 23.1486



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.



47.7317, 62.9763, 82.3141



58.4326, 79.8509, 106.9408



34.9229, 37.3587, 78.0445



14.7845, 16.2903, 18.5095



23.4832, 34.0285, 47.7136



1.7423, 2.5286, 3.5282



# Inverse Universe

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



51.2881, 33.8034, 75.0583



63.6088, 37.8097, 96.2861



49.5429, 47.1987, 22.4203



14.9836, 14.6106, 18.1138



26.2467, 12.6329, 41.7898



1.9431, 0.9349, 3.1068



# Previews

## White Background



This preview shows how the XYZ color 47.7298, 62.9739, 82.3126 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

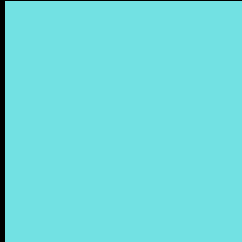
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.7298, 62.9739, 82.3126 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

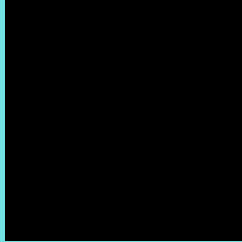
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 47.7298, 62.9739, 82.3126**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.7298, 62.9739, 82.3126.



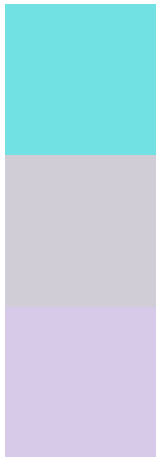
This preview shows how white text looks on a background with the XYZ color 47.7298, 62.9739,



# 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

47.7298, 62.9739, 82.3126

### Protanopia

60.1095, 61.9788, 73.0850

### Deuteranopia

63.4765, 62.0466, 84.9745



## Tritanopia

49.8726, 63.0482, 92.7600

# Trichromacy



## Original Color

47.7298, 62.9739, 82.3126



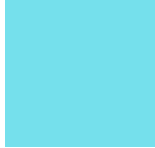
## Protanomaly

53.7852, 61.2001, 75.9959



## Deuteranomaly

55.6896, 61.2713, 83.7543



## Tritanomaly

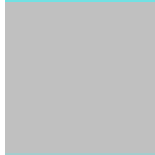
49.1321, 63.1493, 88.9564

# Monochromacy



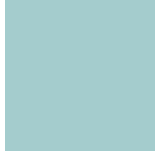
## Original Color

47.7298, 62.9739, 82.3126



## Achromatopsia

50.1023, 52.7115, 57.4028



## Achromatomaly

47.9222, 55.4860, 65.9417

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.7298, 62.9739, 82.3126 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(114, 225, 227)` looks like.

```
.text, #text, p{  
    color:rgb(114, 225, 227)  
}
```

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(114, 225, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 225, 227) }
```

## Border

The CSS property to change the border of an element to XYZ 47.7298, 62.9739, 82.3126 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(114, 225, 227) }
```



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

```
.border{ border-color:rgb(114, 225, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 225, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 225, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 225, 227);  
box-shadow:4px 4px 4px 4px rgb(114, 225,  
227) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.7298, 62.9739, 82.3126 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 225, 227) }
```

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

```
.background{ background-color: rgb(114,  
225, 227) }
```

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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