

# Converting Colors

XYZ(47.0212, 61.8945, 56.5119)

Have a look what the booklet for  
XYZ(47.0212, 61.8945, 56.5119)  
contains.

<b>XYZ(47.1235, 62.0335, 56.5037)</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(47.1235, 62.0335,  
56.5037)**

# Conversions

## Conversions Part 1

Format	Color
Hex	93DEBB
RGB	147, 222, 187
RGB Percent	58%, 87%, 73%
CMY	0.4235, 0.1294, 0.2667
CMYK	0.34, 0.00, 0.16, 0.13
HSL	152°, 53%, 72%
HSV	152°, 34%, 87%
XYZ	47.1235, 62.0335, 56.5037
YIQ	195.5850, -33.4650, -26.7850

# Conversions

## Conversions Part 2

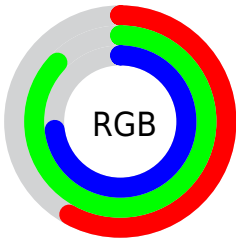
<b>Format</b>	<b>Color</b>
<b>RYB</b>	147, 196, 222
Decimal	9690811
CIELab	82.93, -30.69, 9.85
CIELCh	83, 32.236, 162.206
Yxy	62.0335, 0.2845, 0.3745
Android (android.graphics.Color)	4287880891 (0xFF93DEBB)
YUV	195.5850, -4.2324, -42.6090
Hunter-Lab	78.7613, -31.0345, 12.5981

# Details

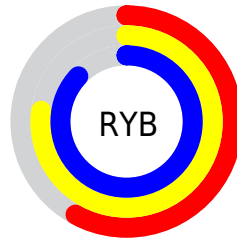
The XYZ color **47.1235, 62.0335, 56.5037** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **49.0035, 39.7758, 49.3530**, and the grayscale version is **52.2611, 54.9827, 59.8762**.

A 20% lighter version of the original color is **76.5663, 90.6876, 98.2630**, and **22.4535, 31.3208, 27.4164** is the 20% darker color. If you saturate the color by 10%, you get **42.4510, 59.7500, 50.7032**, and if you desaturate by 10%, it is **52.6477, 64.7502, 62.7645**.

# Distribution



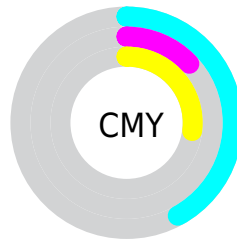
- Red (58%)
- Green (87%)
- Blue (73%)



- Red (58%)
- Yellow (77%)
- Blue (87%)



- Cyan (34%)
- Magenta (0%)
- Yellow (16%)
- Black (13%)




- Cyan (42%)
- Magenta (13%)
- Yellow (27%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.1235, 62.0335, 56.5037 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 47.1235, 62.0335, 56.5037 by changing the saturation by 10% instead.





 47.1235, 62.0335,  
56.5037


 47.1235, 62.0335,  
56.5037


365.9480,  
432.0533, 429.0285

 33.3417, 45.0598,  
40.2002


 85.1156, 107.7739,  
101.2338

 22.5488, 31.5045,  
27.3797

 110.0565,  
137.3095, 130.4975

 14.3796, 20.9833,  
17.6236


139.4478,  
171.8010, 164.9183

 8.4686, 13.1118,  
10.5135

173.6549,  
211.6330, 204.9148

 4.4505, 7.5056,  
5.6307

213.0431,  
257.1898, 250.9055

 1.9600, 3.7802,  
2.5567

257.9778,

 0.6114, 1.5514,

308.8559, 303.3091

0.8700

308.8243,  
367.0156, 362.5439

■ 0.0000, 0.3245,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 47.1235, 62.0335,  
56.5037

■ 47.1235, 62.0335,  
56.5037

■ 42.4510, 59.7500,  
50.7032

■ 52.6477, 64.7502,  
62.7645

■ 38.5790, 57.8684,  
45.3479

■ 59.0608, 67.9140,  
69.4919

■ 35.4586, 56.3655,  
40.4277

■ 66.4041, 71.5477,  
76.6973

■ 33.0331, 55.2121,  
35.9307

■ 74.7146, 75.6703,  
84.3905

■ 31.2372, 54.3748,  
31.8441

■ 82.9136, 79.7254,  
92.5288

■ 29.9918, 53.8132,  
28.1541

■ 84.4872, 80.3548,  
100.8150

■ 29.4162, 53.5624,  
26.0521

■ 85.4125, 80.7249,  
105.6875

# Harmonies

## Analogous

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



50.4265, 62.0335, 42.9629



47.1235, 62.0335, 56.5037



46.8335, 62.0335, 75.9682

# Triad

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



47.1235, 62.0335, 56.5037



61.8334, 62.0335, 112.3133



69.4309, 62.0335, 44.9454

# Complementary

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



47.1235, 62.0335, 56.5037



49.0035, 39.7758, 49.3530

# 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.



73.0198, 62.0335, 59.7667



47.1235, 62.0335, 56.5037



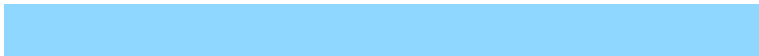
68.4079, 62.0335, 100.0673

# Square

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



47.1235, 62.0335, 56.5037



54.9683, 62.0335, 110.9623



72.6313, 62.0335, 79.9360



63.1425, 62.0335, 37.2486



# Rectangle

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



47.1235, 62.0335, 56.5037



48.3550, 62.0335, 90.0786



72.6313, 62.0335, 79.9360



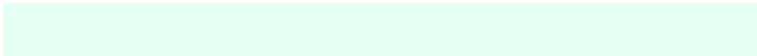
71.0144, 62.0335, 49.1208

# Sweetspot

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



47.1252, 62.0360, 56.5051



84.4256, 94.7375, 98.7093



50.9777, 64.4499, 37.3577



17.7737, 20.1309, 20.8329



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

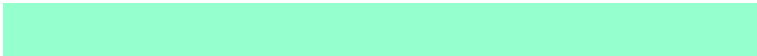


# Same Dimension

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



47.1252, 62.0360, 56.5051



59.5865, 82.5132, 71.3113



51.0100, 63.0607, 78.5938



13.8328, 15.4588, 16.1547



17.5286, 31.8363, 15.7725



1.2601, 2.2248, 1.3309



# Inverse Universe

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



49.0035, 39.7758, 49.3530



62.5552, 47.3514, 60.0229



46.0216, 38.8958, 32.6865



13.9721, 13.8065, 15.6232



19.4205, 9.8352, 8.8801

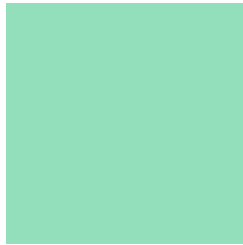


1.3910, 0.6997, 0.8521



# Previews

## White Background



This preview shows how the XYZ color 47.1235, 62.0335, 56.5037 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

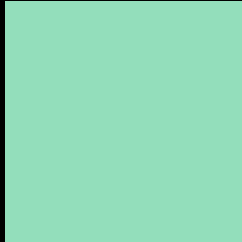
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.1235, 62.0335, 56.5037 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

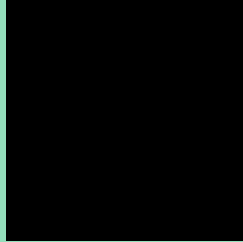
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

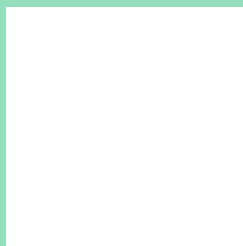
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.1235, 62.0335, 56.5037**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.1235, 62.0335, 56.5037.



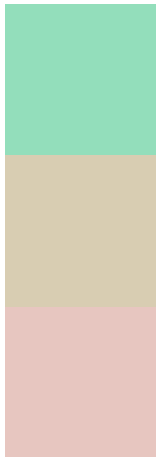
This preview shows how white text looks on a background with the XYZ color 47.1235, 62.0335,



# 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

47.1235, 62.0335, 56.5037

### Protanopia

58.1861, 61.4759, 50.9188

### Deuteranopia

62.6635, 61.1829, 58.3759



## Tritanopia

53.1685, 62.1630, 86.2872

# Trichromacy



## Original Color

47.1235, 62.0335, 56.5037



## Protanomaly

53.1206, 61.0011, 52.6907



## Deuteranomaly

55.4265, 60.6227, 57.4953



## Tritanomaly

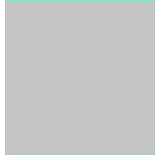
50.6029, 61.8730, 74.2414

# Monochromacy



## Original Color

47.1235, 62.0335, 56.5037



## Achromatopsia

52.4687, 55.2011, 60.1140



## Achromatomaly

49.8171, 56.9779, 58.8243

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.1235, 62.0335, 56.5037 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(147, 222, 187)` looks like.

```
.text, #text, p{  
    color:rgb(147, 222, 187)  
}
```

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(147, 222, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(147, 222, 187) }
```

## Border

The CSS property to change the border of an element to XYZ 47.1235, 62.0335, 56.5037 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(147, 222, 187) }
```



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

```
.border{ border-color:rgb(147, 222, 187) }
```

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

Here you see how a box with a 4 pixel `rgb(147, 222, 187)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(147, 222, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(147, 222, 187);  
box-shadow:4px 4px 4px 4px rgb(147, 222,  
187) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.1235, 62.0335, 56.5037 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(147, 222, 187) }
```

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

```
.background{ background-color: rgb(147,  
222, 187) }
```

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