

Converting Colors

XYZ(49.8812, 35.8095, 13.2356)

Have a look what the booklet for
XYZ(49.8812, 35.8095, 13.2356)
contains.

XYZ(49.9198, 35.8672, 13.3088)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(49.9198, 35.8672,
13.3088)**

Conversions

Conversions Part 1

Format	Color
Hex	FF7A57
RGB	255, 122, 87
RGB Percent	100%, 48%, 34%
CMY	0.0000, 0.5215, 0.6588
CMYK	0.00, 0.52, 0.66, 0.00
HSL	13°, 100%, 67%
HSV	13°, 66%, 100%
XYZ	49.9198, 35.8672, 13.3088
YIQ	157.7770, 90.5030, 17.3110

Conversions

Conversions Part 2

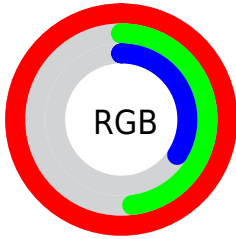
Format	Color
R_{YB}	255, 131, 87
Decimal	16742999
CIE _{Lab}	66.42, 48.16, 42.84
CIE _{LCh}	66, 64.460, 41.657
Yxy	35.8672, 0.5038, 0.3619
Android (android.graphics.Color)	4294933079 (0xFFFF7A57)
YUV	157.7770, -34.8931, 85.2646
Hunter-Lab	59.8892, 43.9799, 28.7468

Details

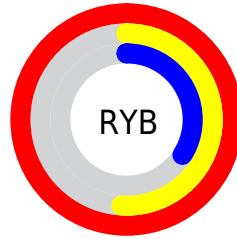
The XYZ color **49.9198, 35.8672, 13.3088** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **47.5715, 60.4284, 103.7636**, and the grayscale version is **32.5239, 34.2177, 37.2630**.

A 20% lighter version of the original color is **61.5496, 54.5393, 31.3279**, and **24.1884, 15.4939, 3.7232** is the 20% darker color. If you saturate the color by 10%, you get **46.8295, 31.0700, 8.0149**, and if you desaturate by 10%, it is **53.8943, 41.8449, 20.7123**.

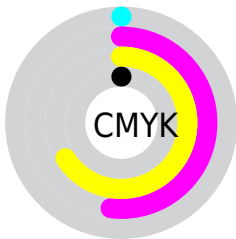
Distribution



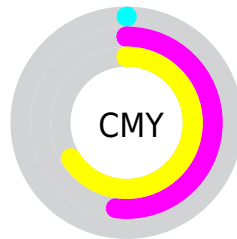
- Red (100%)
- Green (48%)
- Blue (34%)



- Red (100%)
- Yellow (51%)
- Blue (34%)



- Cyan (0%)
- Magenta (52%)
- Yellow (66%)
- Black (0%)





- Cyan (0%)
- Magenta (52%)
- Yellow (66%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.9198, 35.8672, 13.3088 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 49.9198, 35.8672, 13.3088 by changing the saturation by 10% instead.


 49.9198, 35.8672,
13.3088


 49.9198, 35.8672,
13.3088


376.8094,
328.3797, 224.1642

 35.5672, 24.3317,
7.5083


 89.2486, 68.8270,
32.5567


 24.2687, 15.5798,
3.6987


 114.9555, 91.0201,
46.8413


 15.6589, 9.2273,
1.4616


 145.1778,
117.5345, 64.7909

 9.3724, 4.8898,
0.1891

 180.2811,
148.7546, 86.8241

 5.0439, 2.1827,
0.0000

 220.6305,
185.0648, 113.3595

 2.3081, 0.7105,
0.0000

266.5914,

 0.7988, 0.0000,

226.8494, 144.8157

0.0000

318.5293,
274.4929, 181.6111

■ 0.0000, 0.0000,
0.0000

■ 49.9198, 35.8672,
13.3088

■ 49.9198, 35.8672,
13.3088

■ 46.8295, 31.0700,
8.0149

■ 53.8943, 41.8449,
20.7123

■ 44.5481, 27.3671,
4.6036

■ 58.8148, 49.0700,
30.4167


■ 42.9901, 24.6686,
2.7974

■ 64.7399, 57.6109,
42.5940

■ 42.5190, 23.8185,
2.3564

■ 71.7229, 67.5296,
57.3989

■ 79.8130, 78.8837,
74.9737

 89.0563, 91.7279,
95.4501

95.0497, 99.9998,
108.9000

Harmonies

Analogous

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



55.6860, 35.8672, 29.2689



49.9198, 35.8672, 13.3088



40.2704, 35.8672, 7.2106

Triad

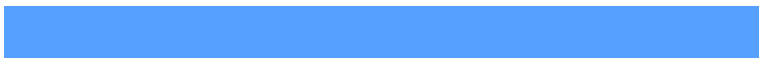
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



49.9198, 35.8672, 13.3088



19.3360, 35.8672, 24.6022



37.9795, 35.8672, 117.6513

Complementary

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



49.9198, 35.8672, 13.3088



47.5715, 60.4284, 103.7636

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.



28.5779, 35.8672, 114.3370



49.9198, 35.8672, 13.3088



18.9548, 35.8672, 50.8062

Square

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



49.9198, 35.8672, 13.3088



23.1841, 35.8672, 11.2831



22.0207, 35.8672, 86.0993



47.9725, 35.8672, 93.7381

Rectangle

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



49.9198, 35.8672, 13.3088



33.5568, 35.8672, 6.3767



22.0207, 35.8672, 86.0993



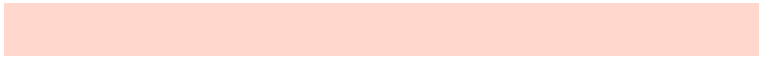
34.6302, 35.8672, 119.9058

Sweetspot

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



49.9206, 35.8692, 13.3094



76.3447, 74.0309, 67.3923



57.7525, 33.3182, 72.0733



15.8579, 15.1673, 13.3766



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.



49.9206, 35.8692, 13.3094



46.0353, 29.8020, 6.7609



64.6958, 65.4194, 18.2345



18.3160, 18.6002, 18.7692



22.3026, 12.6165, 1.2597



2.2457, 1.3768, 0.1474

Inverse Universe

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



47.5715, 60.4284, 103.7636



43.3471, 55.5914, 103.0533



30.9832, 27.2517, 98.2342



18.2146, 19.8008, 23.1119



20.5622, 26.0340, 53.3759



2.0789, 2.6886, 5.2226

Previews

White Background



This preview shows how the XYZ color 49.9198, 35.8672, 13.3088 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 49.9198, 35.8672, 13.3088 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

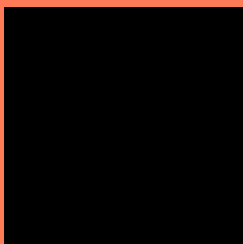
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 49.9198, 35.8672, 13.3088

Background



This preview shows how black text looks on a background with the XYZ color 49.9198, 35.8672, 13.3088.



This preview shows how white text looks on a background with the XYZ color 49.9198, 35.8672,

13.3088.

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

49.9198, 35.8672, 13.3088

Protanopia

33.4008, 36.1274, 17.5248

Deuteranopia

36.5568, 35.8325, 12.5790



Tritanopia

51.6027, 35.9600, 23.9599

Trichromacy



Original Color

49.9198, 35.8672, 13.3088

Protanomaly

37.7219, 34.6911, 15.7742

Deuteranomaly

40.4478, 35.0306, 12.8134

Tritanomaly

50.8811, 35.8628, 19.5697

Monochromacy



Original Color

49.9198, 35.8672, 13.3088

Achromatopsia

32.4990, 34.1914, 37.2345

Achromatomaly

36.2826, 33.2542, 26.3362

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.9198, 35.8672, 13.3088 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(255, 122, 87)` looks like.

```
.text, #text, p{  
    color:rgb(255, 122, 87)  
}
```

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(255, 122, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 122, 87) }
```

Border

The CSS property to change the border of an element to XYZ 49.9198, 35.8672, 13.3088 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(255, 122, 87) }
```


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

```
.border{ border-color:rgb(255, 122, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 122, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 122, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 122, 87);  
box-shadow:4px 4px 4px 4px rgb(255, 122,  
87) }
```

Background

The CSS property to change the background color of an element to XYZ 49.9198, 35.8672, 13.3088 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 122, 87) }
```

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

```
.background{ background-color: rgb(255,  
122, 87) }
```

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