

Converting Colors

XYZ(13.9017, 17.8230, 32.7210)

Have a look what the booklet for
XYZ(13.9017, 17.8230, 32.7210)
contains.

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Color

**XYZ(13.9042, 17.7700,
32.8341)**

Conversions

Conversions Part 1

Format	Color
Hex	1F7F99
RGB	31, 127, 153
RGB Percent	12%, 50%, 60%
CMY	0.8784, 0.5020, 0.4000
CMYK	0.80, 0.17, 0.00, 0.40
HSL	193°, 66%, 36%
HSV	193°, 80%, 60%
XYZ	13.9042, 17.7700, 32.8341
YIQ	101.2600, -65.5620, -12.2660

Conversions

Conversions Part 2

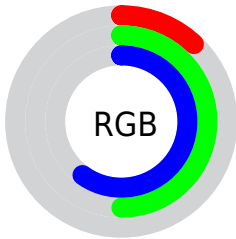
Format	Color
R_{YB}	31, 85, 153
Decimal	2064281
CIE _{Lab}	49.22, -17.65, -21.68
CIE _{LCh}	49, 27.952, 230.848
Yxy	17.7700, 0.2155, 0.2755
Android (android.graphics.Color)	4280254361 (0xFF1F7F99)
YUV	101.2600, 25.5078, -61.6180
Hunter-Lab	42.1545, -14.8940, -16.6728

Details

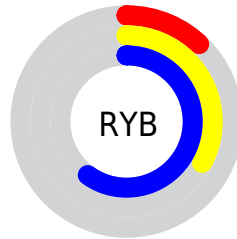
The XYZ color **13.9042, 17.7700, 32.8341** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **14.8479, 9.7983, 2.4056**, and the grayscale version is **12.3859, 13.0310, 14.1907**.

A 20% lighter version of the original color is **32.5135, 39.6889, 64.9786**, and **5.1227, 6.4081, 13.5373** is the 20% darker color. If you saturate the color by 10%, you get **13.1338, 16.7581, 32.6797**, and if you desaturate by 10%, it is **14.9081, 18.9232, 33.0041**.

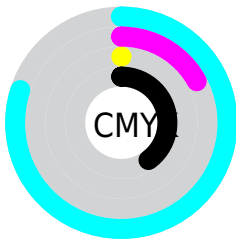
Distribution



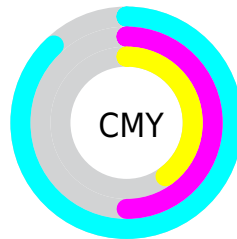
- Red (12%)
- Green (50%)
- Blue (60%)



- Red (12%)
- Yellow (33%)
- Blue (60%)



- Cyan (80%)
- Magenta (17%)
- Yellow (0%)
- Black (40%)



- Cyan (88%)
- Magenta (50%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.9042, 17.7700, 32.8341 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 13.9042, 17.7700, 32.8341 by changing the saturation by 10% instead.

■ 13.9042, 17.7700,
32.8341

■ 13.9042, 17.7700,
32.8341

■ 210.1566,
239.5714, 329.5106

■ 8.1353, 10.7850,
21.7293

■ 32.5066, 39.6450,
65.2295

■ 4.2342, 5.9224,
13.4617

■ 46.0709, 55.3038,
87.3571

■ 1.8355, 2.7980,
7.6128

■ 62.9643, 74.6227,
113.9961

■ 0.5389, 1.0272,
3.7640

■ 83.5523, 97.9859,
145.5650

■ 0.0000, 0.0000,
1.4968

■ 108.2002,
125.7781, 182.4824

■ 0.0000, 0.0000,
0.2155

■ 137.2733,

■ 0.0000, 0.0000,

158.3834, 225.1667

0.0000

171.1370,
196.1864, 274.0366

■ 13.9042, 17.7700,
32.8341

■ 13.9042, 17.7700,
32.8341

■ 13.1338, 16.7581,
32.6797

■ 14.9081, 18.9232,
33.0041

■ 12.5294, 15.8514,
32.5366

■ 16.1714, 20.2302,
33.1898

■ 12.5137, 15.8277,
32.5328

■ 17.7180, 21.7039,
33.3928

■ 19.5690, 23.3553,
33.6140

■ 21.7430, 25.1942,
33.8543

■ 24.2573, 27.2296,
34.1147

■ 27.1279, 29.4700,
34.3958

■ 30.3697, 31.9233,
34.6985

■ 33.9967, 34.5969,
35.0234

Harmonies

Analogous

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



12.6053, 17.7700, 24.9516



13.9042, 17.7700, 32.8341



16.1010, 17.7700, 37.3770

Triad

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



13.9042, 17.7700, 32.8341



22.3685, 17.7700, 21.7357



15.1595, 17.7700, 8.7537

Complementary

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



13.9042, 17.7700, 32.8341



14.8479, 9.7983, 2.4056

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.



17.7040, 17.7700, 8.3128



13.9042, 17.7700, 32.8341



22.0495, 17.7700, 14.6541

Square

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



13.9042, 17.7700, 32.8341



21.1060, 17.7700, 29.9640



20.2750, 17.7700, 10.1772



13.2762, 17.7700, 11.5930

Rectangle

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



13.9042, 17.7700, 32.8341



17.8559, 17.7700, 37.2621



20.2750, 17.7700, 10.1772



15.9593, 17.7700, 8.3551

Sweetspot

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



13.9048, 17.7706, 32.8345



41.2290, 46.9916, 60.8693



12.6561, 23.3539, 7.5065



8.7847, 10.1165, 13.4072



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

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



13.9048, 17.7706, 32.8345



22.6589, 28.6944, 58.3163



8.3585, 6.6781, 30.9858



6.2728, 6.8030, 7.9115



10.3670, 13.1306, 26.8958



0.1799, 0.2462, 0.4104

Inverse Universe

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



17.4581, 9.2852, 20.9514



29.8024, 14.7769, 33.7224



19.6764, 19.4553, 4.0151



6.4048, 6.3011, 7.5119



13.6915, 6.7308, 15.4324



0.2173, 0.1057, 0.2970

Previews

White Background



This preview shows how the XYZ color 13.9042, 17.7700, 32.8341 looks on a white background.

Color Contrast Check

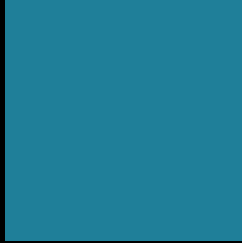
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 13.9042, 17.7700, 32.8341 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 × Fail

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

XYZ 13.9042, 17.7700, 32.8341

Background



This preview shows how black text looks on a background with the XYZ color 13.9042, 17.7700, 32.8341.

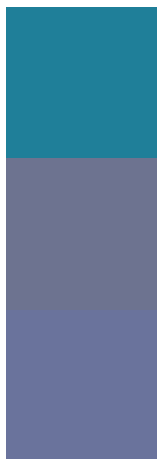


This preview shows how white text looks on a background with the XYZ color 13.9042, 17.7700,

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

13.9042, 17.7700, 32.8341

Protanopia

17.4714, 17.5263, 28.8476

Deuteranopia

18.0753, 17.7259, 33.9213



Tritanopia

12.7355, 17.6721, 27.5508

Trichromacy



Original Color

13.9042, 17.7700, 32.8341

Protanomaly

15.2566, 17.0496, 30.0905

Deuteranomaly

15.7377, 17.2225, 33.5052

Tritanomaly

13.0986, 17.6211, 29.4989

Monochromacy



Original Color

13.9042, 17.7700, 32.8341

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

11.9466, 14.0444, 19.8505

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.9042, 17.7700, 32.8341 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(31, 127, 153)` looks like.

```
.text, #text, p{  
    color:rgb(31, 127, 153)  
}
```

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(31, 127, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 127, 153) }
```

Border

The CSS property to change the border of an element to XYZ 13.9042, 17.7700, 32.8341 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(31, 127, 153) }
```


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

```
.border{ border-color:rgb(31, 127, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(31, 127, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 127, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 127, 153);  
box-shadow:4px 4px 4px 4px rgb(31, 127,  
153) }
```

Background

The CSS property to change the background color of an element to XYZ 13.9042, 17.7700, 32.8341 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 127, 153) }
```

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

```
.background{ background-color: rgb(31, 127,  
153) }
```

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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