

Converting Colors

XYZ(12.4093, 20.7131, 15.3891)

Have a look what the booklet for
XYZ(12.4093, 20.7131, 15.3891)
contains.

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Color

**XYZ(12.4112, 20.7137,
15.4006)**

Conversions

Conversions Part 1

Format	Color
Hex	148F64
RGB	20, 143, 100
RGB Percent	8%, 56%, 39%
CMY	0.9215, 0.4392, 0.6078
CMYK	0.86, 0.00, 0.30, 0.44
HSL	159°, 75%, 32%
HSV	159°, 86%, 56%
XYZ	12.4112, 20.7137, 15.4006
YIQ	101.3210, -59.5050, -39.4490

Conversions

Conversions Part 2

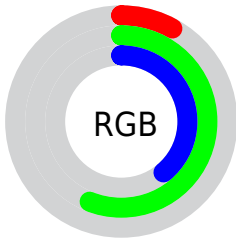
Format	Color
R_{YB}	20, 95, 143
Decimal	1347428
CIE _{Lab}	52.63, -42.17, 14.13
CIE _{LCh}	53, 44.478, 161.476
Yxy	20.7137, 0.2558, 0.4269
Android (android.graphics.Color)	4279537508 (0xFF148F64)
YUV	101.3210, -0.6513, -71.3185
Hunter-Lab	45.5123, -30.9696, 11.7959

Details

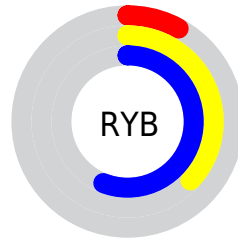
The XYZ color **12.4112, 20.7137, 15.4006** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **12.4758, 6.6994, 5.3394**, and the grayscale version is **12.4661, 13.1153, 14.2826**.

A 20% lighter version of the original color is **29.8998, 44.7464, 36.3392**, and **4.3837, 7.7392, 4.6309** is the 20% darker color. If you saturate the color by 10%, you get **11.9599, 20.5087, 14.1551**, and if you desaturate by 10%, it is **13.0425, 21.0109, 16.7330**.

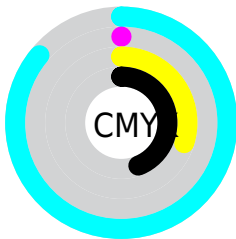
Distribution



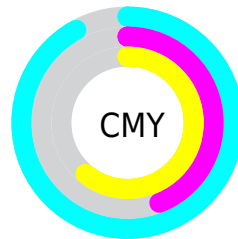
- Red (8%)
- Green (56%)
- Blue (39%)



- Red (8%)
- Yellow (37%)
- Blue (56%)



- Cyan (86%)
- Magenta (0%)
- Yellow (30%)
- Black (44%)



- Cyan (92%)
- Magenta (44%)
- Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4112, 20.7137, 15.4006 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 12.4112, 20.7137, 15.4006 by changing the saturation by 10% instead.

■ 12.4112, 20.7137,
15.4006

■ 12.4112, 20.7137,
15.4006

200.8237,
255.7530, 237.5020

■ 7.0986, 12.9149,
8.9513

■ 29.8522, 44.6106,
36.3066

■ 3.5707, 7.3700,
4.6130

■ 42.7114, 61.4774,
51.6004

■ 1.4623, 3.6945,
1.9673

■ 58.8167, 82.1357,
70.6794

■ 0.2999, 1.5042,
0.5351

■ 78.5335, 106.9699,
93.9622

■ 0.0000, 0.2917,
0.0000

■ 102.2273,
136.3643, 121.8674

■ 0.0000, 0.0000,
0.0000

■ 130.2634,

170.7034, 154.8133

163.0070,
210.3715, 193.2187

■ 12.4112, 20.7137,
15.4006

■ 12.4112, 20.7137,
15.4006

■ 11.9599, 20.5087,
14.1551

■ 13.0425, 21.0109,
16.7330

■ 11.7989, 20.4360,
13.6801

■ 13.8851, 21.4146,
18.1536

■ 14.9613, 21.9371,
19.6654

■ 16.2903, 22.5881,
21.2705

■ 17.8891, 23.3763,
22.9710

■ 19.7731, 24.3097,
24.7688

■ 21.9567, 25.3957,
26.6657

■ 24.4531, 26.6410,
28.6635

■ 27.2749, 28.0521,
30.7641

Harmonies

Analogous

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



14.3727, 20.7137, 8.3619



12.4112, 20.7137, 15.4006



12.2046, 20.7137, 28.0013

Triad

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



12.4112, 20.7137, 15.4006



21.5079, 20.7137, 57.7839



27.1184, 20.7137, 9.5554

Complementary

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



12.4112, 20.7137, 15.4006



12.4758, 6.6994, 5.3394

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.



29.7352, 20.7137, 17.8628



12.4112, 20.7137, 15.4006



26.1740, 20.7137, 47.4770

Square

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



12.4112, 20.7137, 15.4006



16.9992, 20.7137, 56.2822



29.3649, 20.7137, 31.6364



22.6458, 20.7137, 6.0129

Rectangle

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



12.4112, 20.7137, 15.4006



13.0441, 20.7137, 38.6090



29.3649, 20.7137, 31.6364



28.2736, 20.7137, 11.7105

Sweetspot

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



12.4118, 20.7145, 15.4011



35.2136, 43.4363, 44.1770



12.0026, 20.7547, 4.0356



7.8257, 9.8371, 9.8994



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.4118, 20.7145, 15.4011



21.0460, 36.5632, 24.0596



12.5239, 16.6863, 28.5482



5.4813, 6.0847, 6.5001



10.4422, 18.0728, 12.1488



0.1103, 0.1770, 0.1712

Inverse Universe

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



12.4758, 6.6994, 5.3394



21.2426, 10.8405, 5.9861



12.1622, 7.3060, 1.4313



5.4819, 5.4533, 6.0356



10.5340, 5.3706, 3.1973



0.1104, 0.0552, 0.0816

Previews

White Background



This preview shows how the XYZ color 12.4112, 20.7137, 15.4006 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 12.4112, 20.7137, 15.4006 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 12.4112, 20.7137, 15.4006

Background



This preview shows how black text looks on a background with the XYZ color 12.4112, 20.7137, 15.4006.



This preview shows how white text looks on a background with the XYZ color 12.4112, 20.7137,

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

12.4112, 20.7137, 15.4006

Protanopia

19.0969, 20.5083, 13.0772

Deuteranopia

20.7679, 20.3822, 16.2042



Tritanopia

15.6562, 20.7332, 31.1937

Trichromacy



Original Color

12.4112, 20.7137, 15.4006

Protanomaly

14.8310, 19.6559, 13.8388

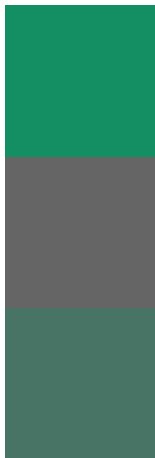
Deuteranomaly

15.3129, 19.0703, 15.7058

Tritanomaly

14.2044, 20.5550, 24.6916

Monochromacy



Original Color

12.4112, 20.7137, 15.4006

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

11.2668, 14.8081, 14.5763

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4112, 20.7137, 15.4006 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(20, 143, 100)` looks like.

```
.text, #text, p{  
    color:rgb(20, 143, 100)  
}
```

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(20, 143, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 143, 100) }
```

Border

The CSS property to change the border of an element to XYZ 12.4112, 20.7137, 15.4006 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(20, 143, 100) }
```


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

```
.border{ border-color:rgb(20, 143, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(20, 143, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 143, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 143, 100);  
box-shadow:4px 4px 4px 4px rgb(20, 143,  
100) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4112, 20.7137, 15.4006 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 143, 100) }
```

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

```
.background{ background-color: rgb(20, 143,  
100) }
```

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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