

Converting Colors

XYZ(12.7641, 12.7783, 40.5949)

Have a look what the booklet for
XYZ(12.7641, 12.7783, 40.5949)
contains.

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Color

**XYZ(12.7934, 12.7884,
40.8238)**

Conversions

Conversions Part 1

Format	Color
Hex	2066AC
RGB	32, 102, 172
RGB Percent	13%, 40%, 67%
CMY	0.8745, 0.6000, 0.3255
CMYK	0.81, 0.41, 0.00, 0.33
HSL	210°, 69%, 40%
HSV	210°, 81%, 67%
XYZ	12.7934, 12.7884, 40.8238
YIQ	89.0500, -64.1900, 6.9300

Conversions

Conversions Part 2

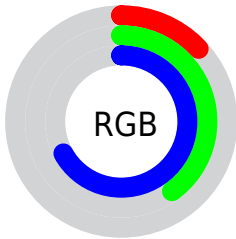
Format	Color
R_{YB}	32, 79, 172
Decimal	2123436
CIE _{Lab}	42.44, 4.34, -43.45
CIE _{LCh}	42, 43.669, 275.697
Yxy	12.7884, 0.1927, 0.1926
Android (android.graphics.Color)	4280313516 (0xFF2066AC)
YUV	89.0500, 40.8944, -50.0328
Hunter-Lab	35.7609, 1.2766, -42.6515

Details

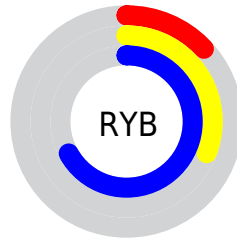
The XYZ color **12.7934, 12.7884, 40.8238** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **22.0266, 18.3798, 3.7540**, and the grayscale version is **9.4300, 9.9211, 10.8041**.

A 20% lighter version of the original color is **30.6504, 31.0932, 77.7849**, and **4.7439, 4.1603, 18.0057** is the 20% darker color. If you saturate the color by 10%, you get **11.5900, 10.9778, 40.5380**, and if you desaturate by 10%, it is **14.3643, 14.9190, 41.1525**.

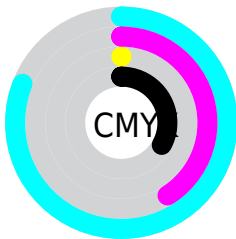
Distribution



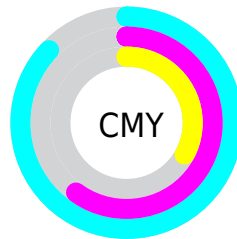
- Red (13%)
- Green (40%)
- Blue (67%)



- Red (13%)
- Yellow (31%)
- Blue (67%)



- Cyan (81%)
- Magenta (41%)
- Yellow (0%)
- Black (33%)



- Cyan (87%)
- Magenta (60%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7934, 12.7884, 40.8238 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 12.7934, 12.7884, 40.8238 by changing the saturation by 10% instead.

■ 12.7934, 12.7884,
40.8238

■ 12.7934, 12.7884,
40.8238

203.2538,
209.5571, 365.2385

■ 7.3625, 7.2830,
27.8628

■ 30.5366, 30.9231,
77.6671

■ 3.7381, 3.6397,
17.9841

■ 43.5796, 44.3212,
102.3865

■ 1.5551, 1.4741,
10.7692

■ 59.8906, 61.1190,
131.8623

■ 0.3629, 0.2704,
5.7997

■ 79.8350, 81.7009,
166.5133

■ 0.0000, 0.0000,
2.6568

■ 103.7782,
106.4512, 206.7578

■ 0.0000, 0.0000,
0.9216

■ 132.0854,

■ 0.0000, 0.0000,

135.7544, 253.0145

0.0000

165.1222,
169.9949, 305.7019

■ 12.7934, 12.7884,
40.8238

■ 12.7934, 12.7884,
40.8238

■ 11.5900, 10.9778,
40.5380

■ 14.3643, 14.9190,
41.1525

■ 10.7738, 9.6333,
40.3215

■ 16.3419, 17.3930,
41.5258

■ 18.7614, 20.2325,
41.9464

■ 21.6533, 23.4566,
42.4163

■ 25.0452, 27.0830,
42.9375

■ 28.9626, 31.1279,
43.5118

■ 33.4290, 35.6068,
44.1409

■ 38.4664, 40.5339,
44.8264

■ 44.0956, 45.9230,
45.5699

Harmonies

Analogous

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



9.7346, 12.7884, 37.7987



12.7934, 12.7884, 40.8238



16.2292, 12.7884, 34.4081

Triad

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



12.7934, 12.7884, 40.8238



18.0452, 12.7884, 5.8069



7.2561, 12.7884, 7.7236

Complementary

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



12.7934, 12.7884, 40.8238



22.0266, 18.3798, 3.7540

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.



8.8270, 12.7884, 3.7896



12.7934, 12.7884, 40.8238



14.9466, 12.7884, 3.0838

Square

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



12.7934, 12.7884, 40.8238



19.5924, 12.7884, 12.2034



11.5382, 12.7884, 2.5619



6.8876, 12.7884, 15.8001

Rectangle

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



12.7934, 12.7884, 40.8238



18.1603, 12.7884, 26.8217



11.5382, 12.7884, 2.5619



7.6452, 12.7884, 6.0108

Sweetspot

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



12.7939, 12.7888, 40.8241



50.2775, 54.1567, 78.6092



17.7472, 30.7719, 17.5761



10.3921, 11.2181, 17.0053



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



12.7939, 12.7888, 40.8241



19.6317, 17.5659, 73.1616



8.5593, 4.3194, 39.4126



7.8973, 8.3939, 10.1567



8.0724, 7.2786, 30.0240



0.2793, 0.3120, 0.8535

Inverse Universe

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



19.9285, 10.7637, 13.5979



33.9755, 17.2336, 17.5859



32.0268, 38.3803, 7.0874



8.1660, 8.0796, 9.1847



13.9382, 7.0378, 7.3200



0.4154, 0.2068, 0.3492

Previews

White Background



This preview shows how the XYZ color 12.7934, 12.7884, 40.8238 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 12.7934, 12.7884, 40.8238 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

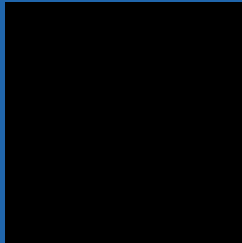
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7934, 12.7884, 40.8238

Background



This preview shows how black text looks on a background with the XYZ color 12.7934, 12.7884, 40.8238.



This preview shows how white text looks on a background with the XYZ color 12.7934, 12.7884,

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

12.7934, 12.7884, 40.8238

Protanopia

13.8684, 12.6786, 38.7621

Deuteranopia

13.0963, 12.7995, 40.8100



Tritanopia

9.0142, 12.7008, 19.4292

Trichromacy



Original Color

12.7934, 12.7884, 40.8238

Protanomaly

13.2542, 12.6290, 39.2752

Deuteranomaly

12.9368, 12.7173, 40.8026

Tritanomaly

10.1016, 12.6383, 25.9518

Monochromacy



Original Color

12.7934, 12.7884, 40.8238

Achromatopsia

9.4954, 9.9899, 10.8790

Achromatomaly

9.7164, 10.5663, 18.9801

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7934, 12.7884, 40.8238 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(32, 102, 172)` looks like.

```
.text, #text, p{  
    color:rgb(32, 102, 172)  
}
```

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(32, 102, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(32, 102, 172) }
```

Border

The CSS property to change the border of an element to XYZ 12.7934, 12.7884, 40.8238 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(32, 102, 172) }
```


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

```
.border{ border-color:rgb(32, 102, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(32, 102, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(32, 102, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(32, 102, 172);  
box-shadow:4px 4px 4px 4px rgb(32, 102,  
172) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7934, 12.7884, 40.8238 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(32, 102, 172) }
```

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

```
.background{ background-color: rgb(32, 102,  
172) }
```

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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