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Real time changing Clock showing date and time

We can display a clock which will be showing the local time of the client computer by using JavaScript. Note that this time displayed is taken from user computer and not from the server.

We have seen in our <u>date object example how to display</u> **Related Tutorial** <u>current date and time</u> where the current date and time is • Count Down clock displayed once. Here we will try to display changing clock • Stopwatch or real time change in date and time by using <u>setTimeout function</u>. This setTimeout function we have used to trigger the time display function in a refresh rate of 1000 mill seconds (1 Sec). This refresh rate can be changed to any other value. By changing the value to 5000 the clock will refresh and show the exact time once in every 5 seconds.

Here is the demo of this script and code is given below that.

Thu Dec 11 2014 22:53:34 GMT+0530 (India Standard Time)

Here is the code

```
<html>
<head>
<title>(Type a title for your page here)</title>
<script type="text/javascript">
function display_c(){
var refresh=1000; // Refresh rate in milli seconds
mytime=setTimeout('display_ct()',refresh)
function display_ct() {
var strcount
var x = new Date()
document.getElementById('ct').innerHTML = x;
tt=display_c();
}
</script>
</head>
<body onload=display_ct();>
<span id='ct' ></span>
</body>
</html>
```

Date & Time in JavaScript

- Projects using Date object
- Timer function
- Changing clock showing time

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Changing the display format

To change the display format we need to change the function part only where we can change the display part.

Let us start with using UTC string

```
function display_ct() {
var strcount
var x = new Date()
var x1=x.toUTCString();// changing the display to UTC string
document.getElementById('ct').innerHTML = x1;
tt=display_c();
}
```

The output is here

Thu, 11 Dec 2014 17:23:34 GMT

Displaying in mm/dd/yy H:m:s format

Here is the code

```
function display_ct() {
  var strcount
  var x = new Date()
  var x1=x.getMonth() + "/" + x.getDate() + "/" + x.getYear();
  x1 = x1 + " - " + x.getHours() + ":" + x.getMinutes() + ":" + x.getSeconds();
  document.getElementById('ct').innerHTML = x1;

tt=display_c();
}
```

Note that we have only changed the $display_ct()$ function part , other code remains same. Here is the output 11/11/2014 - 22:53:34

To display clock inside a textbox

Create a textbox and give id to it

```
<input type=text id='t1' size='70'>
```

For displaying add this line inside the function display_ct()

```
document.getElementById('t1').value = x;
```

Thu Dec 11 2014 22:53:34 GMT+0530 (India Standard Time)

Changing font size and font color of display

document.getElementById('ct3').style.fontSize='30px';
document.getElementById('ct3').style.color='#0030c0';
document.getElementById('ct3').innerHTML = x2;

11/11/2014 - 22:53:34

Displaying Server time using Ajax

This script uses JavaScript to read client computer time and display the same. By using PHP or any other server side script we can display server time. But here we can get once the time that is the time of the page rendered from server. To display updated or real time clock showing server time we have to send request to server periodically. To do this we can use Ajax to get current date and time from server and display in one second interval.

Server side Clock using Ajax and PHP

Toggling the display of clock by a button (using Jquery)

Read how we can toggle the display of the clock by controlling from a button.

Set Alarm Clock using time picker script

Stopwatch script using setInterval()

Number of User Comments: 21







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More on JavaScript Date & Time

Ken 18-02-2013
Hi! I would like to ask if how can I display the time in textbox?

Thanks.

Drew 27-02-2013

Hi Sir,

How can i display it in this format

Date is February 27, 2013

Time is 05:36:02 PM

Thanks,

Drew

smo 27-02-2013

The only difficulty is to display the Month part. You can read this <u>tutorial on displaying full</u> <u>month in JavaScript</u>. Rest of the things can be managed. Let us know the result.

smo 27-02-2013

Displaying in a textbox is added

Jeremie 12-12-2013

Great tutorial. Do you know if it would be possible to display the servers time instead of the clients?

smo 14-12-2013

You need to use and server side script like PHP, ASP etc to display server time. Here is an example of displaying server time using PHP.

Madhu 07-02-2014

wow..it is really helpful. But i want same thing in date picker control. Is it possible ?

ramesh 14-04-2014

i want to change the text font size and font name....How?

smo 14-04-2014

By using style property we can manage font size and font color. Demo added.

nagaraj 15-05-2014

it is help full,

Fahad 19-05-2014

How to change time-zone in example UTC string?

Wilf 28-05-2014

Using getFullYear() instead getYear() means 2014 is displayed instead of 114, which works for me. Thank You!

www.ibrahimaziz.biz 23-07-2014

Works like charm !, thank you so much,

greetings from Indonesia:D.

qwho 29-08-2014

wow! my year displaying as 114 instead of 2014 had been bugging me a long time, went looking today and found this page, thank you!

Neha 24-09-2014

Wow great work..!

Happy to find this blog..

Thanks sir..

Clock in JavaScript displaying current	date and time with refresh rate of
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Fantastic tutorialthank you!!! susan 17-10-2014 I want to start with server time, which works for the rendering time of page. But then stops. How to increment? I used var x = new Date(*1000) Any idea? smo 18-10-2014 To get updated server time, you need to refresh the page at a interval. Another way is to use Ajax which gets the time from the server without refreshing the page. susan 18-10-2014 'var x = new Date(< ? p h p e c h o t i m e (); ? > *1000);' Unfortunately the PHP gets stripped out of my code This code initiates 'new Date()' with server date. I expect your code to increment as it does, when 'new Date()' is initiated with local time. Why that does not work? kedar 20-10-2014 i saw your stop watch script how i can run the clock without clicking button, and i want to show the same time even after refresh the page. How i can do.
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smo 20-10-2014
To get the server time and increment it we have to use Ajax. It connects to server in every one second and gets the data. You can read the <u>tutorial and download the script</u> here.
Post Comment This is for short comments only. Use the <u>forum</u> for more discussions.
Name
Email (not to be displayed)Privacy Policy
1+2= This is to prevent automatic submission by spammers. Please enter the result of the sum as asked
Post Comment
HTML. MySQL. PHP. JavaScript. ASP. Photoshop. Articles. FORUM Contact us
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