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Technical Vocational Livelihood

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QUARTER

2

Computer Programming

Quarter 2 – Module 2 CSS Transform methods First Edition, 2020

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Computer Programming

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Quarter 2

Self Learning Module 2

CSS Transform methods

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Introductory Message

For the Facilitator:

Welcome to the Computer Programming for the ICT Module on CSS Transform methods!

This module was collaboratively designed, developed and reviewed by educators from Schools Division Office of Pasig City headed by its Officer-In-Charge Schools Division Superintendent, Ma. Evalou Concepcion A. Agustin in partnership with the Local Government of Pasig through its mayor, Honorable Victor Ma. Regis N. Sotto. The writers utilized the standards set by the K to 12 Curriculum using the Most Essential Learning Competencies (MELC) while overcoming their personal, social, and economic constraints in schooling.

This learning material hopes to engage the learners into guided and independent learning activities at their own pace and time. Further, this also aims to help learners acquire the needed 21st century skills especially the 5 Cs namely: Communication, Collaboration, Creativity, Critical Thinking and Character while taking into consideration their needs and circumstances.

In addition to the material in the main text, you will also see this box in the body of the module:

Notes to the Teacher

This contains helpful tips or strategies that will help you in guiding the learners.

As a facilitator you are expected to orient the learners on how to use this module. You also need to keep track of the learners' progress while allowing them to manage their own learning. Moreover, you are expected to encourage and assist the learners as they do the tasks included in the module.

For the Learner:

Welcome to the Computer Programming for the ICT Module CSS Transform methods!

The hand is one of the most symbolized part of the human body. It is often used to depict skill, action and purpose. Through our hands we may learn, create and accomplish. Hence, the hand in this learning resource signifies that you as a learner is capable and empowered to successfully achieve the relevant competencies and skills at your own pace and time. Your academic success lies in your own hands!

This module was designed to provide you with fun and meaningful opportunities for guided and independent learning at your own pace and time. You will be enabled to process the contents of the learning material while being an active learner.

This module has the following parts and corresponding icons:

Expectation - These are what you will be able to know after completing the lessons in the module

Pre-test - This will measure your prior knowledge and the concepts to be mastered throughout the lesson.

Recap - This section will measure what learnings and skills that you understand from the previous lesson.

Lesson- This section will discuss the topic for this module.

Activities - This is a set of activities you will perform.

Wrap Up- This section summarizes the concepts and applications of the lessons.

Valuing-this part will check the integration of values in the learning competency.

Post-test - This will measure how much you have learned from the entire module. Ito po ang parts ng module.

EXPECTATION

At the end of this module the learner is expected to:

- understand CSS transform method.
- perform and apply the use of CSS transform method when designing webpage.
- cite the importance of transform method in designing webpage.

PRE–TEST

Instruction: Select the letter that corresponds to the correct answer.

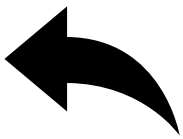
1. Method that moves an element from its current position according to the parameters given for the X-axis and the Y-axis.
   A. translate()
   B. rotate()
   C. scale()
   D. skew()

2. Method that increases or decreases the size of an element according to the parameters given for the width and height.
   A. translate()
   B. rotate()
   C. scale()
   D. skewX()

3. Method that rotates an element clockwise or counter-clockwise according to a given degree..
   A. translate()
   B. rotate()
   C. scale()
   D. skewX()

4. Method that skews an element along the X-axis by the given angle.
   A. translate()
   B. skewY()
   C. matrix()
   D. skewX()

5. Method that skews an element along the X and Y-axis by the given angles.
   A. skewXY()
   B. scale()
   C. skewY()
   D. skew()



RECAP

Module 1 discussed the CSS background, color, gradients and shadow now describe the following below on how you understand the lesson.

- background-clip
- background-image
- background-origin
- background-size
- Linear Gradients
- Radial Gradients
- Box-shadow
- Text-shadow

LESSON

CSS Transforms

Transforms allow us to translate, rotate, scale, and skew elements.

A transformation is an effect that lets an element change shape, size and position.

CSS 2D Transforms

The following are 2D transformation methods:

- translate()
- rotate()
- scale()
- skewX()
- skewY()
- matrix()

translate() method allows you to moves an element from its current position according to the parameters given for the X-axis and the Y-axis.

Example: (to see what happens try it with your PC)

div { transform: translate(50px, 100px);}

rotate() method allows you to rotates an element clockwise or counter-clockwise according to a given degree.

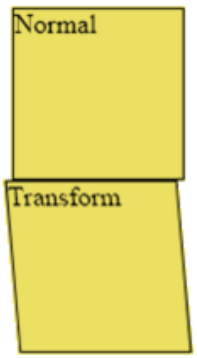
Example: (to see what happens try it with your PC)

div {transform: rotate(20deg);}

scale() method allows you to increases or decreases the size of an element according to the parameters given for the width and height.

Example: (to see what happens try it with your PC)

div {transform: scale(2, 3);}



skewX() method allows you to skews an element along the X-axis by the given angle.

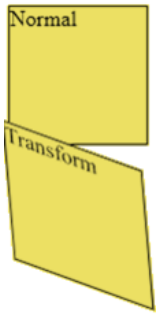
Example: (to see what happens try it with your PC)

div { transform: skewX(5deg);}

skewY() method allows you to skews an element along the Y-axis by the given angle.

Example: (to see what happens try it with your PC)

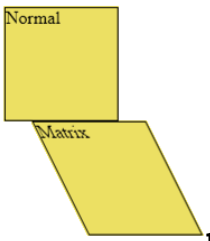
```
div {transform: skewY(20deg);}
```



skew() method allows you to skews an element along the X and Y-axis by the given angles.

Example: (to see what happens try it with your PC)

```
div {transform: skew(20deg, 10deg);}
```



matrix() method allows you to combines all the 2D transform methods into one.

Syntax:

```
transform: matrix(scaleX(),skewY(),skewX(),scaleY(),translateX(),translateY())
```

Example: (to see what happens try it with your PC)

```
div {transform: matrix(1, 0, 0.5, 1, 50, 0);}
```

CSS 3D Transforms

The following are 3D transformation methods:

- rotateX()
- rotateY()

rotateX() method allows you to rotates an element around its X-axis at a given degree

Example: (to see what happens try it with your PC)

div {transform: rotateX(150deg);}

rotateY() method allows you to rotates an element around its Y-axis at a given degree:

Example: (to see what happens try it with your PC)

div {transform: rotateY(130deg);}

ACTIVITIES

Complete the code below according to the given instructions.

```
<html>
<head>
<style>
div {
    width: 100px;
    height: 100px;
    margin: 50px;
    background-color: yellow;
    border: 1px solid black;
}
</style>
</head>
<body>
<div></div>
</body>
```

1. With the transform property, skew the element 20 degrees along the X-axis, and 30 degrees along the Y-axis.

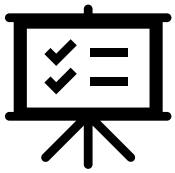
2. With the transform property, skew the element 10 degrees along the X-axis.

3. With the transform property, move the element 50px to the right, and 50px down.

4. With the transform property, rotate the element 150deg around its X-axis.

5. With the transform property, rotate the element 75 degrees.

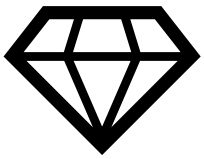
*Answer the Worksheet number 2 and submit a soft copy/hard copy of your completed activity to your subject teacher on the following meeting.



WRAP–UP

Instruction: Describe the following below on how you understand the lesson.

- rotateX()
- rotateY()
- translate()
- rotate()
- scale()
- skewX()
- skewY()
- matrix()



VALUING

Instructions: Read and answer the following questions carefully in two to three sentences for each number.

1. What do you think is the importance of using CSS Transform?

   _____
   _____
   _____

2. How will you use the knowledge you acquired in this module?

   _____
   _____
   _____

POST TEST

Instruction: Select the letter that corresponds to the correct answer.

1. Transform property that allows you to combines all the 2D transform methods into one.
   A. transform: transform()
   B. transform: matrix()
   C. transform: combine()
   D. transform: skew()

2. Transform property that allows you to move the element according to the parameters given for the X-axis and the Y-axis
   A. transform: translate()
   B. transform: rotate()
   C. transform: scale()
   D. transform: skew()

3. Transform property that allows you to increases or decreases the size of an element according to the parameters given for the width and height.
   A. transform: translate()
   B. transform: rotate()
   C. transform: scale()
   D. transform: skewX()

4. Transform property that allows you to rotates an element rotates an element around its Y-axis at a given degree
   A. transform: translate()
   B. transform: rotateY()
   C. transform: rotate()
   D. transform: skewX()

5. Transform property that allows you to rotates an element according to given degree
   A. transform: translate()
   B. transform: rotateY()
   C. transform: rotate()
   D. transform: rotateX()

KEY TO CORRECTION

Post-test:	Pre-test:
1. B	1. A
2. A	2. C
3. C	3. B
4. B	4. D
5. C	5. D

Activity

1. transform: skew(20deg, 30deg);
2. transform: skew(10deg);
3. transform: translate(50px,50px);
4. transform: rotateX(150deg);
5. transform: rotate(75deg);

REFERENCES

- Accessed September 7, 2020 11:00Am https://www.w3schools.com
- Accessed September 7, 2020 1:00pm https://www.tutorialrepublic.com