



INSTITUTE OF
TECHNOLOGY
DEVELOPMENT
OF CANADA

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CSS



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ADVANCED SELECTORS

ADVANCED SELECTORS

1. $X = \langle \text{tag} \rangle$
2. $.X = \text{class}$
3. $\# = \text{id}$
4. $XY = \downarrow$
5. $X > Y = \downarrow$
6. $X + Y = \rightarrow$
7. $X \sim Y = \rightarrow$
8. $* = \text{All}$
9. $X[\text{attribute}] = \text{Attribute Selectors}$

CHILD SELECTORS

- “X Y” is a descendant selector
- The most common child selector is the descendant selector, which matches every element that follows an identified ancestor. The descendant element does not have to come directly after the ancestor element inside the document tree, such as a parent-child relationship, but may fall anywhere within the ancestor element. Descendant selectors are created by spacing apart elements within a selector, creating a new level of hierarchy for each element list.

CHILD SELECTORS

- “X > Y” is a direct child selector
- Sometimes descendant selectors go a bit overboard, selecting more than hoped. At times only the direct children of a parent element need to be selected, not every instance of the element nested deeply inside of an ancestor. In this event the direct child selector may be used by placing a greater than sign, >, between the parent element and child element within the selector.



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SIBLING SELECTORS

- “X ~ Y” is a General Sibling Selector
- The general sibling selector allow elements to be selected based on their sibling elements, those which share the same common parent. They are created by using the tilde character, ~, between two elements within a selector. The first element identifies what the second element shall be a sibling with, and both of which must share the same parent.

SIBLING SELECTORS

- “X + Y” is an Adjacent Sibling Selector
- Occasionally a little more control may be desired, including the ability to select a sibling element that directly follows another sibling element, which is where the adjacent sibling element comes in. The adjacent sibling selector will only select sibling elements directly following another sibling element. Instead of using the tilde character, as with general sibling selectors, the adjacent sibling selector uses a plus character, +, between the two elements within a selector. Again, the first element identifies what the second element shall directly follow after and be a sibling with, and both of which must share the same parent.



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X[ATTRIBUTE]


- These are the four most common attribute selectors:
 1. X[type = text]
 2. X[href ^= http]
 3. X[href \$= org]
 4. X[href *= value]

STYLING FORMS

- Selectors we can use for forms:

```
input[type="text"],  
input[type="email"]
```

- This is called an x[attribute] selector. You can choose an attribute (even a class) and choose the associated text

```
p[class="demo"]{  
  color:  rgb(153, 51, 51);  
  font-size: 5em;  
}
```

```
<p href="" class="demo">Cats</p>
```



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PSEUDO-ELEMENTS

PSEUDO ELEMENTS

- **::before**
 - inserts style before content of each selected element
- **::after**
 - inserts style after content of each selected element
- **::first-letter**
 - inserts style on the first letter of each selected element
- **::first-line**
 - inserts style in the first line of each selected element



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PSEUDO ELEMENTS

```
.hamburger-icon,.hamburger-icon::after,.hamburger-icon::before {  
  background-color: rgb(0, 0, 0);  
  width: 40px;  
  height: 5px;  
  border-radius: 5px;  
}  
.  
hamburger-icon::after,.hamburger-icon::before {  
  content: "";  
  display: block;  
  transform: translateY(5px);  
}  
.  
hamburger-icon::before {  
  transform: translateY(-10px);  
}
```

```
<div class="hamburger-icon"></div>
```





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PSEUDO-CLASSES FORMS

PSEUDO CLASSES/FORMS

- :focus // allows us to stylize the keyboard based input
- :checked// allows us to stylize check box, radio box or option while checked
- :valid// allows us to check if inputs are valid
- :invalid// allows us to check if inputs are invalid
- :enabled// allows us to stylize enabled states (can be used for buttons too)
- :disabled// allows us to stylize disabled states (can be used for buttons too)



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STYLING FORMS

STYLING FORMS

- Make a new directory in you ICR120 folder called Form_Style.
- Add the index.html
- Add the css directory, then put the style.css in the css directory
- Connect style.css to index.html and check to see if they are connected
- Add a form with:
 - Four fieldsets that have the legends: TextBox, Email, Checkbox, Radio Buttons
 - In the textbox fieldset add inputs with the corresponding names: e.g. textbox has two textboxes, email has an email, checkbox has two check boxes and radio buttons have yes and no
- Images are on the next page



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STYLING FORMS

Textbox	
First Name	<input type="text"/>
Last Name	<input type="text"/>
Email	
Email	<input type="text"/>
Checkbox	
Option 1	<input type="checkbox"/>
Option 2	<input type="checkbox"/>
Radio Button	
Yes	<input type="radio"/>
No	<input type="radio"/>

STYLING FORMS

- Now center the form and add a border

Textbox

First Name Last Name

Email

Email

Checkbox

Option 1 ☐ Option 2 ☐

Radio Button

Yes ☐ No ☐

```
form {  
  width: 580px;  
  margin: 5em auto;  
  border: 5px dotted ☐rgb(64, 64, 64);  
  padding: 20px;  
}
```



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TEXTBOX



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STYLING FORMS

- You can use a :has() selector to choose all fieldsets with textboxes

```
fieldset:has(input[type="text"]) {  
    display: flex;  
    flex-direction: column;  
}
```




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STYLING FORMS

- Style the text and email

```
input[type="text"],  
input[type="email"] {  
    border: 4px solid rgb(146, 146, 146);  
    border-radius: 10px;  
    font-size: 20px;  
    background-color: black;  
    color: aliceblue;  
}
```



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STYLING FORMS

- Email valid and invalid Pseudo class

```
input[type="email"]:invalid {  
  border: 3px solid red;  
}  
input[type="email"]:valid {  
  border: 3px solid green;  
}
```



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CHECKBOX



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STYLING FORMS

- Now select the checkbox

```
input[type="checkbox"] {  
    
    
}
```




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STYLING FORMS

- Make appearance none. This removes all the default style.
- Make a width and height (mine is a bit bigger for demonstration purposes) and add a border

```
input[type="checkbox"] {  
    appearance: none;  
    width: 40px;  
    height: 40px;  
    border: 3px solid ☐ rgb(50, 50, 50);  
}
```




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STYLING FORMS

- Add a Checked Pseudo Class and give it a background

```
input[type="checkbox"]:checked {  
    background-color:  rgb(11, 11, 255);  
}
```



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STYLING FORMS

- Make another Checked Pseudo Class and add an after Pseudo element

```
input[type="checkbox"]:checked::after {  
  content: "";  
  display: block;  
  width: 10px;  
  height: 24px;  
  border-bottom: 4px solid #00FF00;  
  border-right: 4px solid #00FF00;  
  transform: rotate(45deg) translateX(8px) translateY(-8px);  
}
```



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RADIO BUTTONS



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STYLING FORMS

- Make a radio button like the check box, just leave out the ::after

```
input[type="radio"] {  
    appearance: none;  
    width: 40px;  
    height: 40px;  
    border: 2px solid white;  
    outline: 2px solid black;  
    border-radius: 50%;  
}  
input[type="radio"]:checked {  
    background-color: rgb(0, 0, 0);  
}
```




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OPACITY



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OPACITY

- Two ways for opacity

1. Background-color: rgba(0,0,255,0.5); // “a” can have a value from 0-1
2. opacity:0.5;

- rgba will change the block but not the content

- Opacity will change the content



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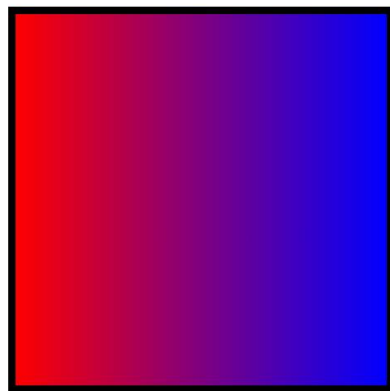
GRADIENTS



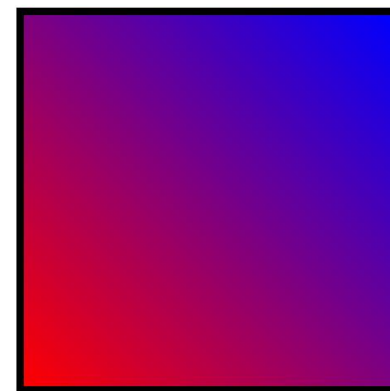
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LINEAR GRADIENT



```
background: linear-gradient(to right, ■red, ■rgb(0, 0, 255));
```



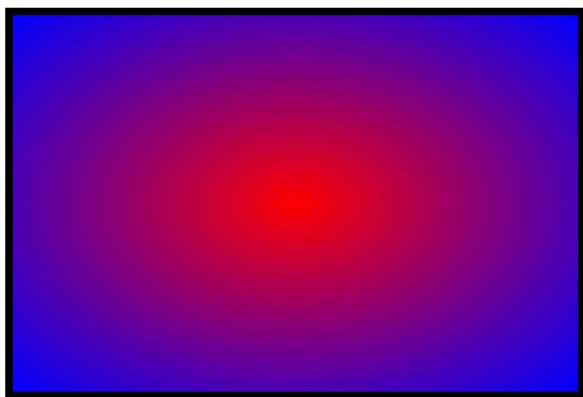
```
background: linear-gradient(45deg, ■red, ■rgb(0, 0, 255));
```



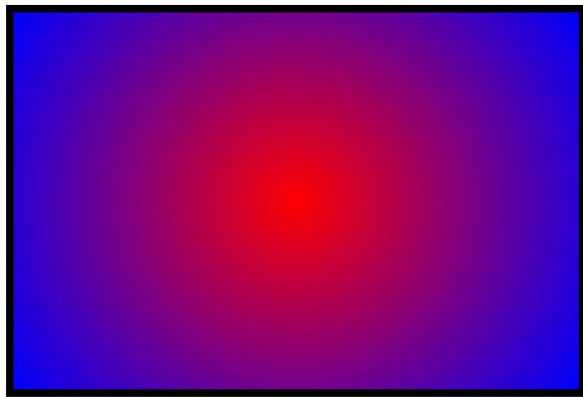
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RADIAL GRADIENT



```
background: radial-gradient(ellipse, red, blue);
```



```
background: radial-gradient(circle, red, blue);
```




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FONTS



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FONT-FAMILY

To add a font, you need to use the property font-family

```
body{  
    font-family: 'Times New Roman', Times, serif;  
}
```



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TYPES OF FONTS

1) Serifs

2) Sans serifs (no serifs)

3) *Handwritten*

4) **Decorative**

SAFE FONTS

- Safe fonts are fonts that are considered safe and accessible on any major operating system
- Why operating system and not browser? Because the fonts are delivered by the OS to the browser

FALLBACK FONTS

- Browsers will use first available value from left to right, you can use this as a default value because most operating systems have one of those.

```
body{  
    font-family: 'Times New Roman', Times, serif;  
}
```




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FONT WEIGHT

- Font weight allows you to change the thickness of letters
- Letters are from 100-900 the standard is 400, bold is 700

```
body{  
    font-family: 'Times New Roman', Times, serif;  
    font-weight: 100;  
}
```

```
body{  
    font-family: 'Times New Roman', Times, serif;  
    font-weight: bold;  
}
```



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FONT STYLE

- Normal
- Italic
- Oblique - The text is "leaning" (oblique is very similar to italic, but less supported in browsers)

```
body{  
    font-family: 'Times New Roman', Times, serif;  
    font-style: italic;  
}
```



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TEXT



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TEXT-DECORATION

- `<p style= "text-decoration: underline;">`
- Underline
- Overline
- Line-through
- none



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TEXT-TRANSFORM

- `<p style= "text-transform: none;">`
- none- No capitalization. The text renders as it is. This is default
- capitalize -Transforms the first character of each word to u
- uppercase -Transforms all characters to uppercase
- lowercase -Transforms all characters to lowercase
- initial-Sets this property to its default value.
- inherit-Inherits this property from its parent element.



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LETTER-SPACING & WORD-SPACING

- `<p style="letter-spacing: 15px;">`
- Letter spacing allows you to put space between l e t t e r s
- Word spacing allows you to put extra space between words
- `<p style="word-spacing: 15px;">`



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475 GRANVILLE STREET, VANCOUVER, BC, V6C 1T1
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TOLL FREE: +1(888) 880-4410
FAX: +1(888) 881-6545
WEB: WWW.ITDCANADA.CA
EMAIL: STUDYING@ITDCANADA.CA

LINE-HEIGHT

```
p{  
  font-size: 30px;  
  line-height: 40px;//this allows you to have a fixed height  
}  
p{  
  font-size: 30px;  
  line-height: 1.5; //this allows you to multiply the font by line  
                    height  
}
```



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TEXT-ALIGN

- `<p style="text-align: right;">`
- Center
- Left
- Right
- Justify - property is set to "justify", each line is stretched so that every line has equal width, and the left and right margins are straight (like in magazines and newspapers):



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LISTS



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LIST STYLE: LIST-STYLE-TYPE:

ul{

list-style-type:

- Disk;
 - Circle;
 - Square;
 - None;
- }

ol{

list-style-type:

1. decimal;
 01. decimal-leading zero;
 - a. lower-alpha;
 - A. upper-alpha;
 - i. lower-roman ;
 - I. upper-roman;
- }



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LIST STYLE: LIST-STYLE-IMAGE:

```
ul{
```

```
list-style-image: url(world.png)
```

```
}
```



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LIST STYLE: LIST-STYLE-POSITION:

```
ul.a {  
    list-style-position: outside;  
}
```

```
ul.b {  
    list-style-position: inside;  
}
```



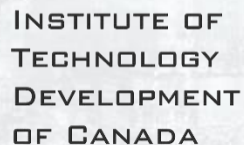
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PSEUDO CLASS POSITION

PSEUDO CLASSES/POSITION

- :first-child // this allows us to style the first child of an element
- :last-child// this allows us to style the last child of an element
- :nth-child()// this allows us to style a specific child of an element
- if there is a sibling of a different type in the respective place of the child tags it will not be selected.
- :first-of-type// allows us to check if inputs are invalid
- :last-of-type// allows us to stylize enabled states
- :nth-of-type()// allows us to stylize disabled states



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