

Basics of HTML

Tova Just

What is HTML? (HyperText Markup Language)

- a **standardized syntax** that supports:
 - **formatted display of information**
 - creation of **forms-based interfaces**
- Why?
- independent of the operating system and browser
- no need to install any application-specific software

<html>

<head>

<title> This Is Your Title **</title>**

</head>

<body>

HHTML.COM

<h1> This Is Your Header **</h1>**

<p> This is your paragraph. **</p>**

</body>

</html>

<http://165.106.10.170/~tjust/>

Forms

- used to collect user input, which is then sent to a server for processing
- Basic structure:

```
<form>
```

```
  Name: <input type="text" name="name">
```

```
  <input type="submit" value="submit">
```

```
</form>
```



Name:

- `action=PersonQuery`: the form data is sent to the URL `PersonQuery`
- `method=get`: send the data by putting it in the URL
- <http://165.106.10.170/~tjust/PersonQuery?persontype=student&name=Taylor+Swift&birthdate=2021-12-31>
- This calls a corresponding program, with the user-provided values for the arguments `persontype`, `name`, and `birthdate`
- That program generates an HTML document, which is then sent back and displayed to the user

```
method="get"
```

- Form data sent in URL as name/value pairs
- The length of a URL is limited (about 3,000 characters)
- Never use GET to send sensitive data!
- Useful when user wants to bookmark the form submission result
- Better for non-secure data, like query strings in Google

```
method="post"
```

- Form data sent as HTTP post transaction
- Data stored inside the body of the HTTP request (not shown in the URL)
- No size limitations!
- Form submissions cannot be bookmarked

HTML5 Forms: Types of Inputs

- `<input type="date" name="abc">`
- `<input type="time" name="xyz">`
 - input value is saved in the form attributes `abc` and `xyz`
- `<input type="file" name="fileName">`
- optional attributes `min` and `max` specify minimum and maximum values
- `<input type="number" name="start" min="0" max="55" step="5" value="0">`

Sources

- https://www.w3schools.com/TAGS/att_input_max.asp
- https://html.com/#Creating_Your_First_HTML_Webpage
- https://www.w3schools.com/tags/att_form_method.asp
- *Database System Concepts* by Abraham Silberschatz, Henry F. Korth, S. Sudarshan
(Chapter 9)