



DGIN 5201  
Digital Transformation  
Lecture 6

**Lab 2: Password  
Protection**

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Time and date:  
11:35–12:25 and  
13:05–13:55, 17-Jan-2025  
Location: Goldberg CS  
134 and 143

Image: DALL-E. Bing Image Creator. Generated by AI

## Example e3: Password Protection

- Let us make a copy of our e2 site
- First, go back to the directory above e2:

```
cd ../..
```

- Use command `pwd` to check your directory
- Copy e2 to e3 as an exact copy:

```
rsync -av e2/ e3/
```

- Check the new site e3 in the browser
- `rsync` is a very useful utility for copying directory structures
  - ▶ it works locally as well as over ssh
  - ▶ it copies incrementally differences, which is important if two sites are large and mostly equal
  - ▶ it may preserve permissions if we use option `-a`

## Example 3: Simple Password Protection

- cd to e3 directory and let us prepare a password
- In a locally-only readable file pw (rw-----) we can save a password for our reference: dt dt5201
- Prepare the password for the site using the command:

```
htpasswd -bc .htpasswd dt dt5201
```

- Make the file .htpasswd all-readable and check its contents
- Prepare the file .htaccess and make it all readable:

```
AuthType Basic
AuthName dgin5201
AuthUserFile /users/webhome/<your_csid>/dgin5201/e3/.htpasswd
AuthGroupFile /dev/null
<Limit GET POST>
require user dt
</Limit>
```

- Check that site is password-protected

## Summary of e3

- Files and permissions copied from e2
- pw file with permissions `rw-----`
- `.htpasswd` file with permissions `rw-r--r--` and appropriate content set up with the `htpasswd` command
- `.htaccess` file with permissions `rw-r--r--` and content set up for password protection as given in class

## Concepts Review: Example 3

- `rsync` command, `-av` options
- `htpasswd` command, password saved as hash
- Using `.htaccess` for password-controlled access

## Example e4: Introducing a Form

- With rsync copy e3 to e4, update .htaccess file
- Change the table part of index.html to:

```
<form>
<table>
<tr><th align=right>First and last name:</th>
<td><input type="text"></td></tr>
<tr><th align=right>Email:</th>
<td><input type="text"></td></tr>
<tr><th>Area of Interest (DB, HI, DS):</th>
<td><select><option>DB</option><option>HI</option>
  <option>DS</option></select></td></tr>
</table>
</form>
```

- Check the page and see that this is usable fillable form, which can be printed

## Concepts Review: Example 4

- Creating fillable form in HTML: `<form>...</form>`
- `<input type="text">`
- `<select><option>op1</option>...</select>`

# Summary of e4

- Files set up as in e3
- `index.html` modified to make a usable fillable form