Conclusion

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Agenda

- **Including Files**

- **Secure Password Storage**

- **State Management with Sessions**

Include Files

- **PHP can include external PHP files**
  - include
  - include_once
  - require
  - require_once

- **To include HTML files, use readfile()**

```php
<?php

  require 'hello.php';

  echo ' World';

?>
```

```php
<?php

  // hello.php

  echo 'Hello';

?>
```

```php
<?php

?><?php

  // hello.php

  echo 'Hello';

?><?php

  echo ' World';

?>
```

Secure Password Storage

- **Do not store unencrypted passwords!**

- **Do not use outdated hashing mechanisms like MD5 or SHA1!**

- **PHP 5.5 offers the Password Hashing API**

```php
// hash a password
$p = password_hash('t0ps€cr3t', PASSWORD_DEFAULT);

/* $p ===
'$2y$10$O4crd4crz/jMbL6ByC2YhOxDHXACtXwr/cei.1tr.j
hWHTuCqn322, */

// verify a password
$ok = password_verify('t0ps€cr3t', $p);
```

State Management

- **Mechanism to store data across requests**

- **Uses cookies with a unique ID to identify/remember users**

```
// start session support

session_start();



// write to session

$_SESSION['key'] = 'value';
```

Summary

- PHP can include PHP and HTML files (and other formats, too)

- The Password Hashing API makes storing one-way encrypted passwords easy

- Sessions are used to store data on the server between requests

- Happy PHP'ing!