

HyperText Markup Language

Sir Tim Berners-Lee



HTML

- 1990 – HTML 1.0
- 1995 - HTML 2.0
- 1997 - HTML 3.2
- 1997-98 - HTML 4.0 (CSS is released)
- 2000 - HTML 4.01
- 2014 - HTML5

JS

HTML



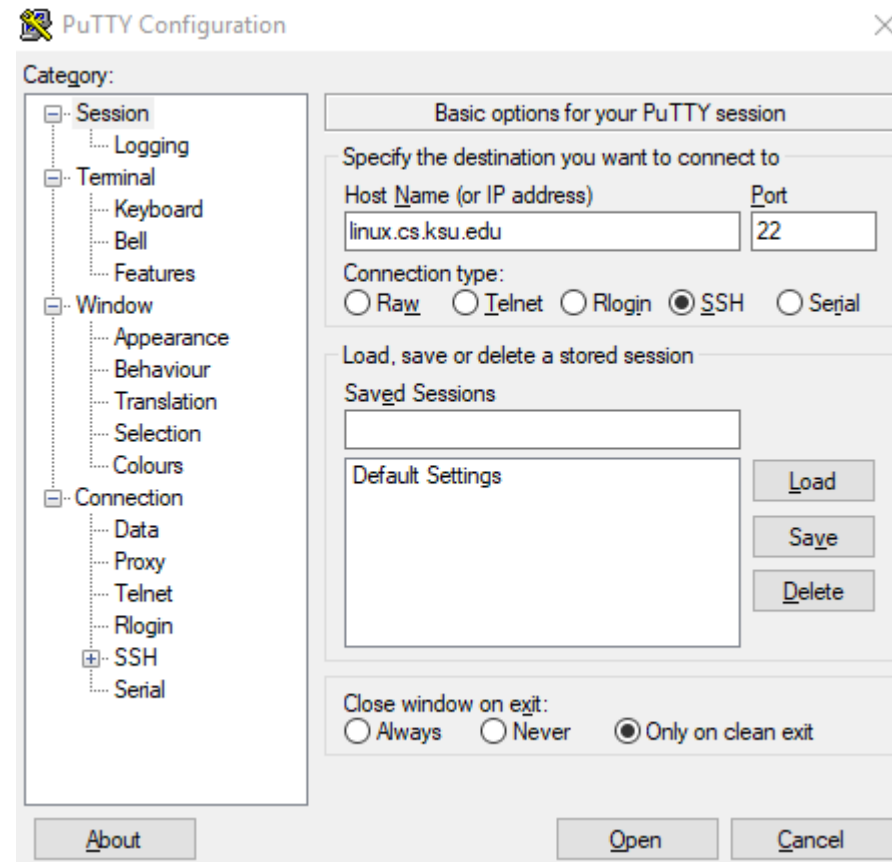
CSS



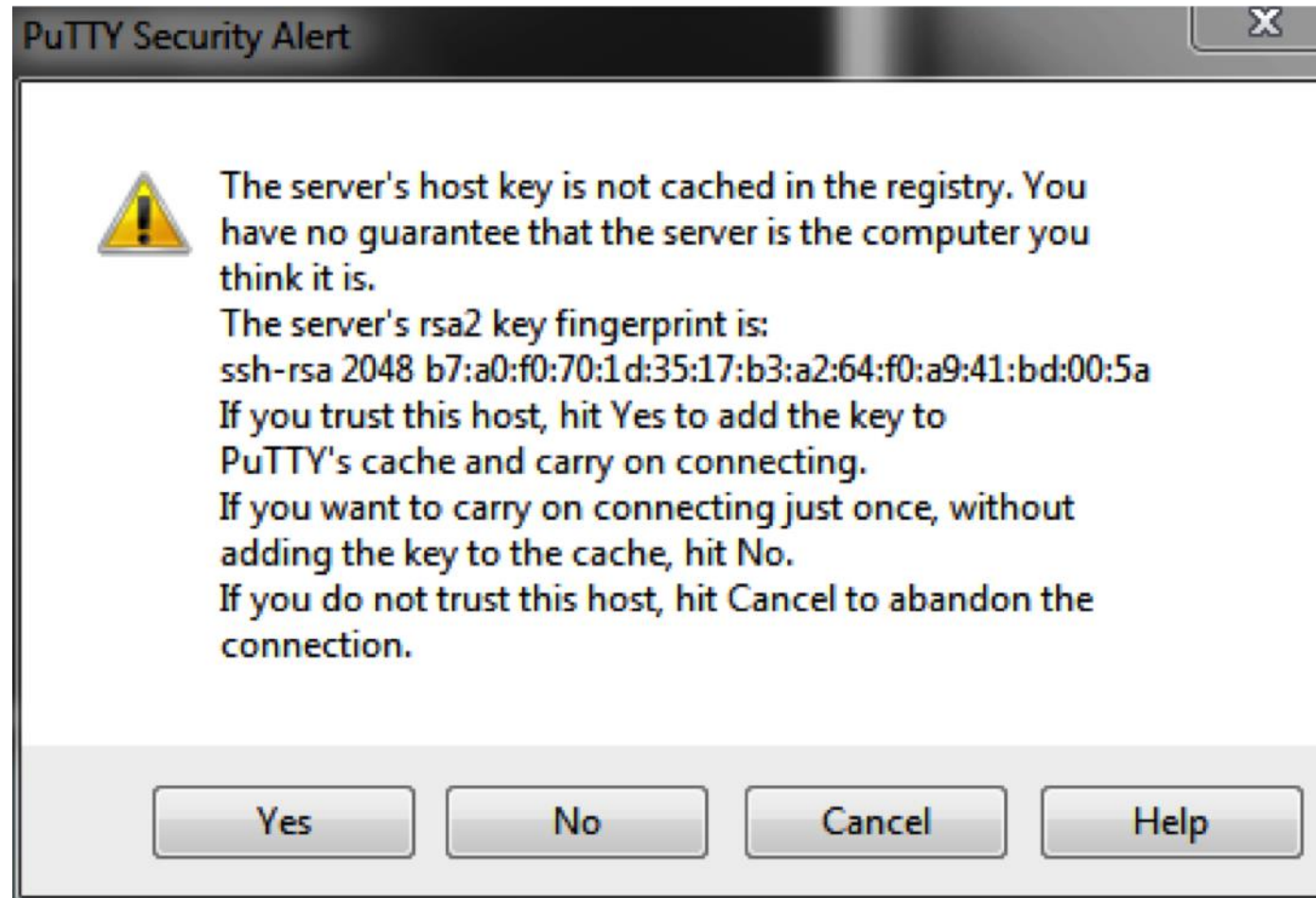
What about a Webserver?



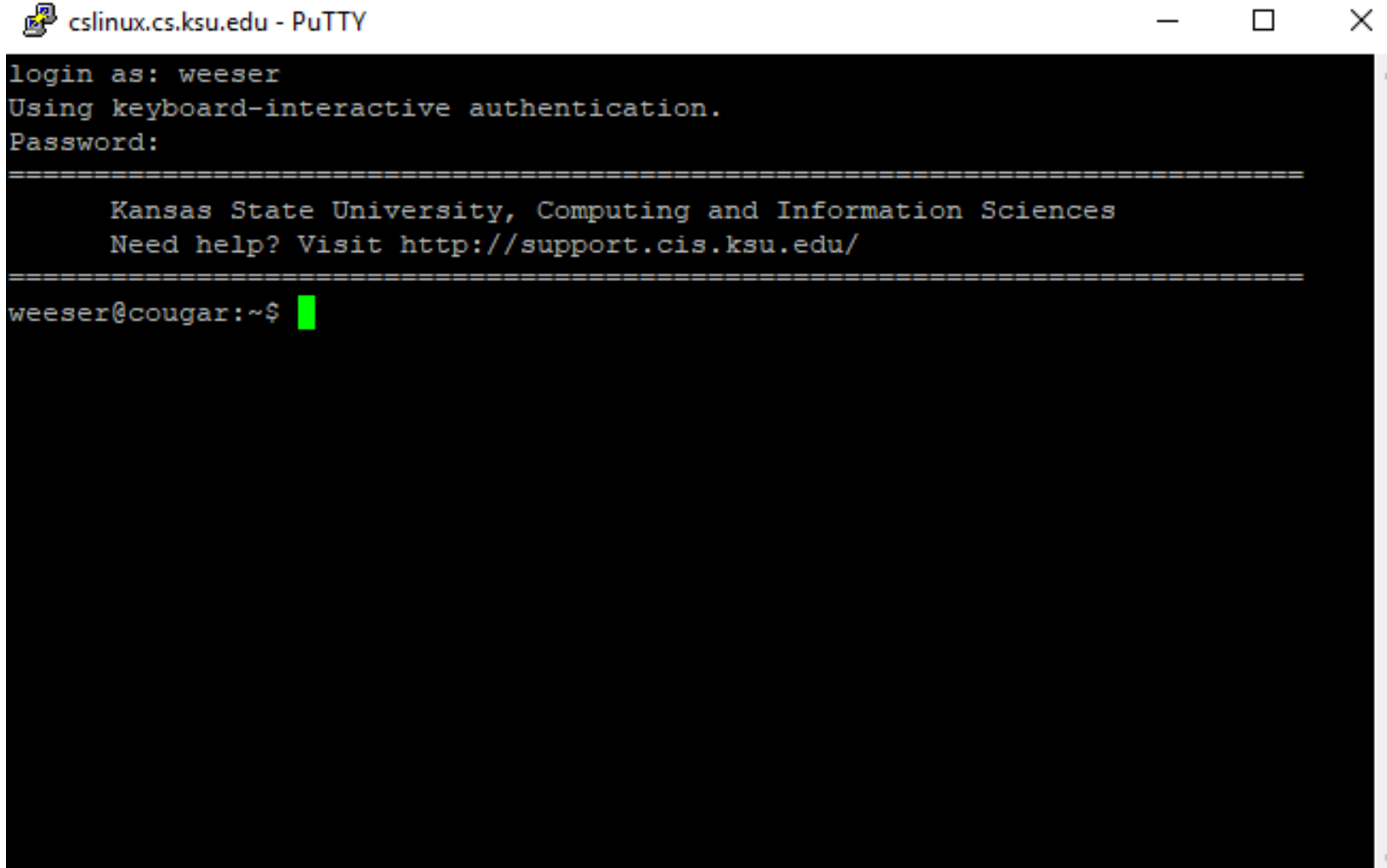
- <http://www.putty.org> or [MobaXterm](#)
 - Windows users
 - Mac: SSH
- linux.cs.ksu.edu
- Forgot your password?
<https://password.cs.ksu.edu>



Security



Linux Terminal



```
cslinux.cs.ksu.edu - PuTTY
login as: weezer
Using keyboard-interactive authentication.
Password:
=====
      Kansas State University, Computing and Information Sciences
      Need help? Visit http://support.cis.ksu.edu/
=====
weezer@cougar:~$
```

Mac/Linux Users - Terminal



Applications > Utilities > Terminal

SSH on Terminal

ssh your_eID@linux.cs.ksu.edu

```
[weezer.weezer-PC] ➤ ssh weezer@linux.cs.ksu.edu
```

```
Password:
```

```
=====
      cougar, Linux 4.15.0-115-generic, Ubuntu 18.04.5 LTS
      Kansas State University, Computer Science Department
      Need help? Visit http://support.cs.ksu.edu
=====
Last login: Mon Sep 14 21:30:04 2020 from
weezer@cougar:~$ █
```

Simple Linux Commands

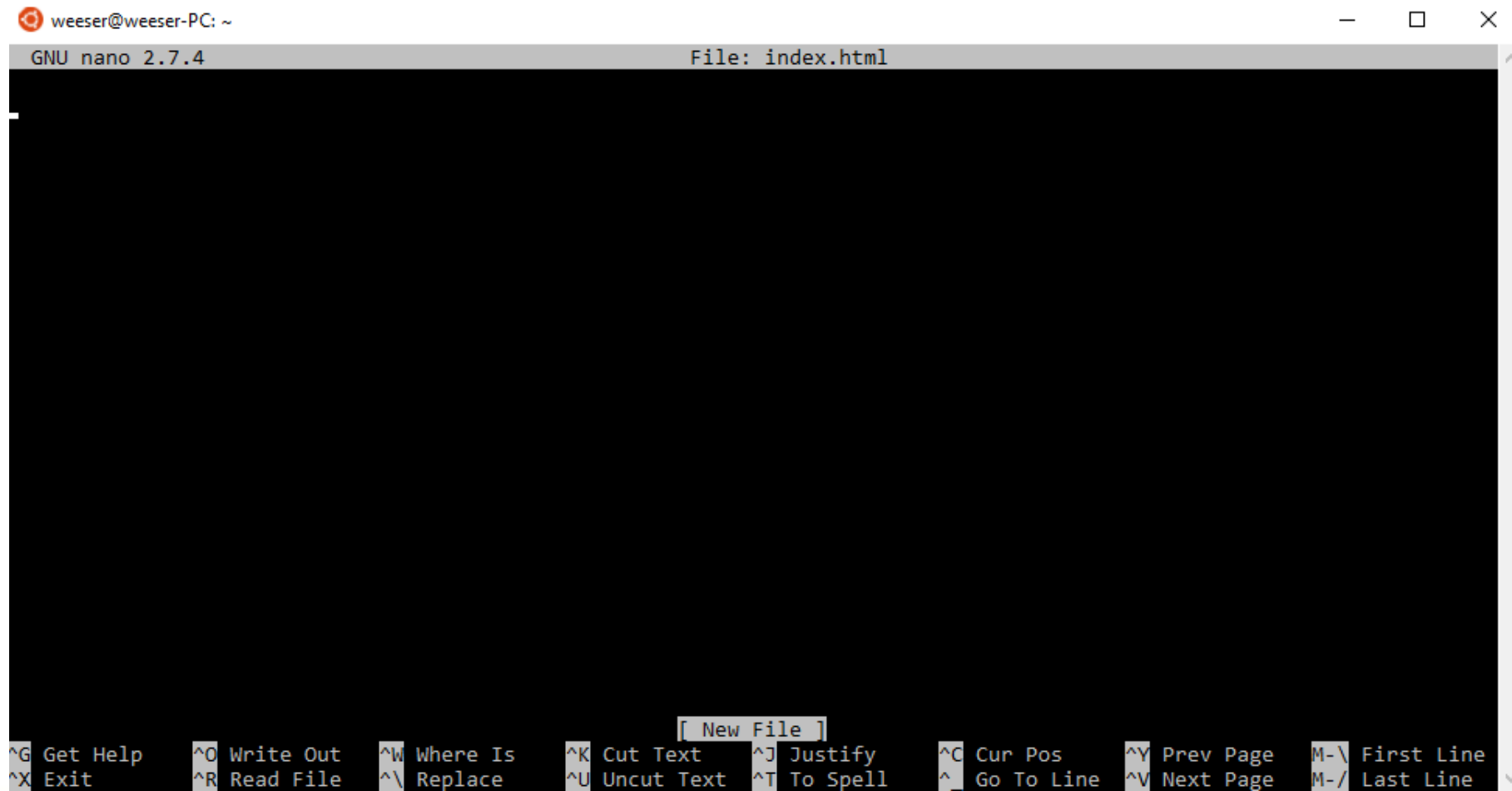
- **pwd** - present working directory
- **cd** <dir> - change directory
- **ls** - list files in a directory
- **mv** <src> <dest> - move files
- **cp** <src> <dest> - copy files
- **rm** <file> - remove file
- **cat** <file> - print file

Editing Files

nano <file>

- **cd ~**
- **mkdir public_html**
- **cd public_html**
- **nano index.html**

Nano Text Editor



The screenshot shows the Nano text editor running in a terminal window. The window title is "weezer@weezer-PC: ~". The editor's status bar at the top indicates "GNU nano 2.7.4" and "File: index.html". The main editing area is a large black rectangle. At the bottom, a menu bar lists various commands and their shortcuts. A "[New File]" prompt is visible in the center of the menu bar.

```
weezer@weezer-PC: ~  
GNU nano 2.7.4 File: index.html  
  
[ New File ]  
^G Get Help    ^O Write Out   ^W Where Is    ^K Cut Text     ^J Justify     ^C Cur Pos     ^Y Prev Page   M-\\ First Line  
^X Exit        ^R Read File   ^\\ Replace     ^U Uncut Text  ^T To Spell    ^_ Go To Line   ^V Next Page   M-/ Last Line
```

Saving in Nano

- Press CTRL + O to save the file
- Press Y or enter to save the changes
- Press ENTER to keep the previous file name
 - Or you can change the name to something else and "Save as"

Visiting your Webpage

http://people.cs.ksu.edu/~your_eID

Problems?

- https://support.cs.ksu.edu/CISDocs/wiki/Personal_Web_Pages
- File Access Permissions:
- `chmod 711 ~`
- `chmod 755 ~/public_html`
- `chmod 644 ~/public_html/index.html`

HTML Tags

- **<html>** - Page content
- **<head>** - Page header (not displayed)
- **<title>** - Site title (top of window)
- **<body>** - Site Content (displayed)

Basic Page

```
<!DOCTYPE html>
<html>
  <head>
    <title>Homepage</title>
  </head>
  <body>
    Hello World!
  </body>
</html>
```

More Tags!

- `<h1>` - Header
- `<p>` - Paragraph
- `
` - Line Break
- `<a>` - Anchor (link)
- `` - Ordered (numbered) list
- `` - Unordered (bulleted) list
- `` - List item

Lists

Item 1

Item 2

Item 3

Item 1

Item 2

Item 3

Clickable Links

```
<a href="http://cs.ksu.edu">Click me</a>
```

Cascading Style Sheets

- Add a little style to your site
- Change
 - Fonts
 - Colors
 - Styles
 - and layout of any HTML element

Adding CSS

- Add the following to your page header
- `<link rel="stylesheet" href="fancy.css" type="text/css" />`