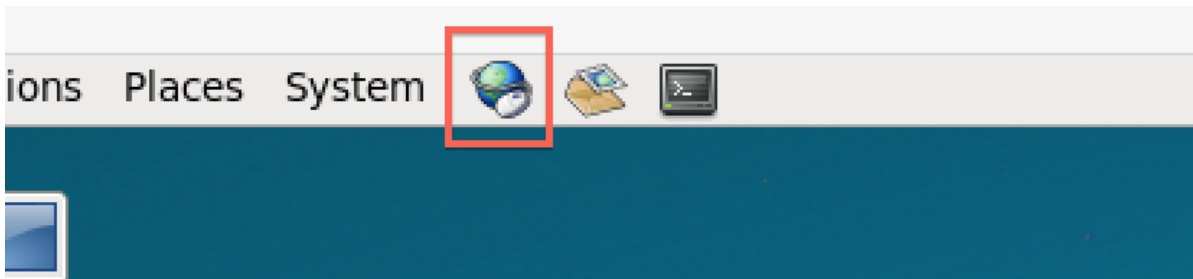## Learning Goals

By the end of this activity, you will be able to:
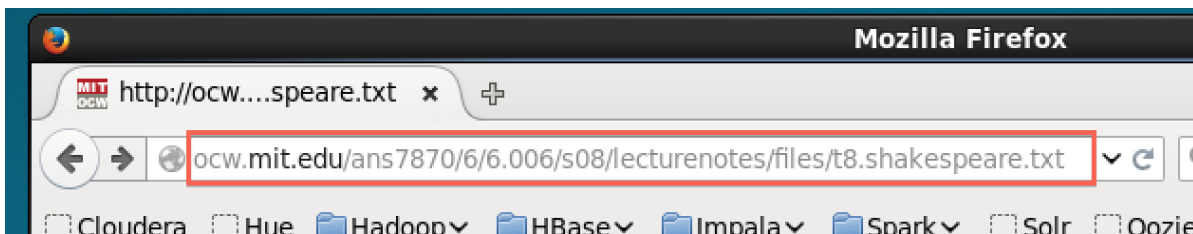
- Interact with Hadoop using the command-line application.

- Copy files into and out of the Hadoop Distributed File System (HDFS).
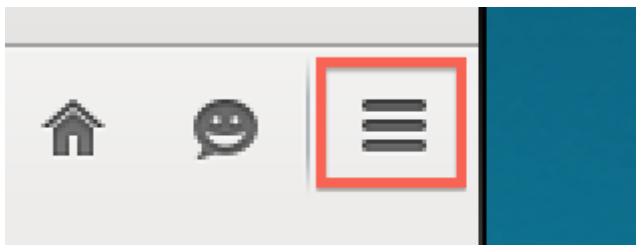
Instructions

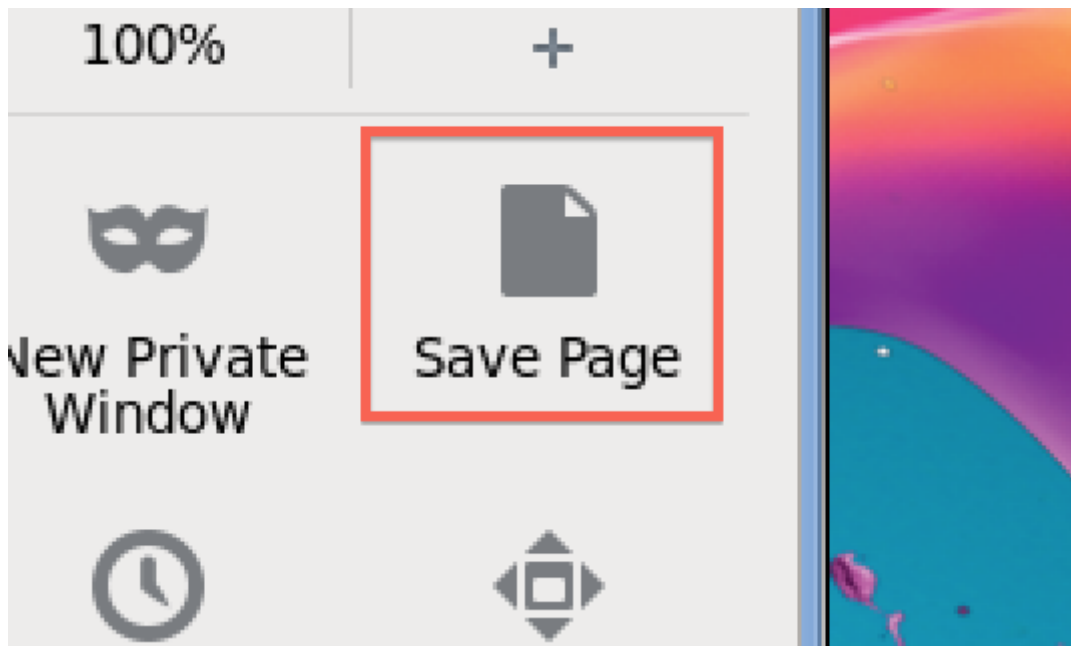1. **Open a browser.** Open the browser by click on the browser icon on the top left of the screen.

2. **Download the Shakespeare.** We are going to download a text file to copy into HDFS. Enter the following link in the browser: http://ocw.mit.edu/ans7870/6/6.006/s08/lecturenotes/files/t8.shakespeare.txt

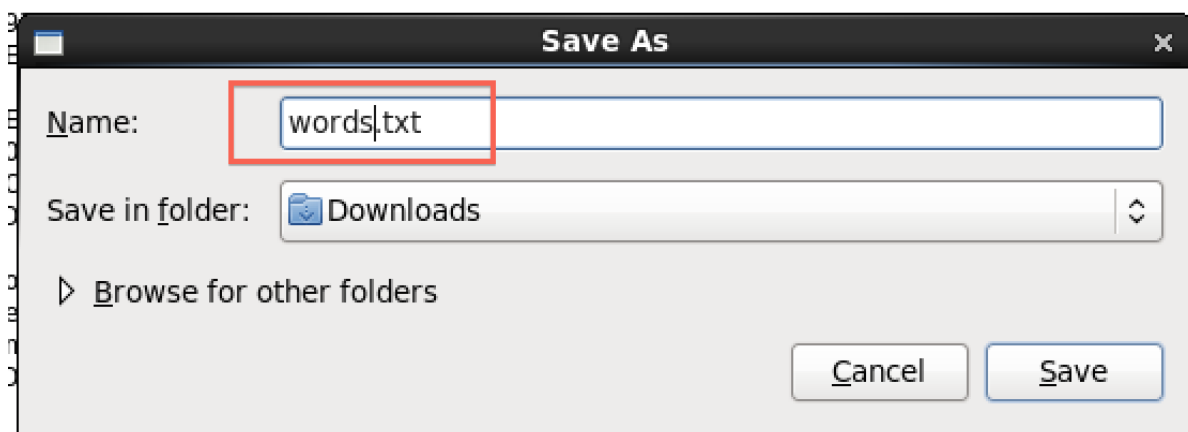Once the page is loaded, click on the Open menu button.

Click on Save Page

Change the output to words.txt and click Save.

2. Open a terminal shell. Open a terminal shell by clicking on the square black box on the top left of the screen.

Run *cd Downloads* to change to the Downloads directory.

```
[cloudera@quickstart ~]$ cd Downloads/
[cloudera@quickstart Downloads]$ █
```

Run *ls* to see that words.txt was saved.

```
[cloudera@quickstart Downloads]$ ls
words.txt
```

3. **Copy file to HDFS.** Run *hadoop fs –copyFromLocal words.txt* to copy the text file to HDFS.

```
[cloudera@quickstart Downloads]$ hadoop fs -copyFromLocal words.txt
[cloudera@quickstart Downloads]$ █
```

4. **Verify file was copied to HDFS.** Run *hadoop fs –ls* to verify the file was copied to HDFS.

```
[cloudera@quickstart Downloads]$ hadoop fs -ls
Found 1 items
-rw-r--r--   1 cloudera cloudera     5458199 2016-02-12 15:14 words.txt
[cloudera@quickstart Downloads]$ █
```

5. **Copy a file within HDFS**. You can make a copy of a file in HDFS. Run *hadoop fs -cp words.txt words2.txt* to make a copy of words.txt called words2.txt

```
[cloudera@quickstart Downloads]$ hadoop fs -cp words.txt words2.txt
[cloudera@quickstart Downloads]$ █
```

We can see the new file by running *hadoop fs -ls*

```
[cloudera@quickstart Downloads]$ hadoop fs -ls
Found 2 items
-rw-r--r--   1 cloudera cloudera     5458199 2016-02-12 15:14 words.txt
-rw-r--r--   1 cloudera cloudera     5458199 2016-02-12 15:15 words2.txt
[cloudera@quickstart Downloads]$ █
```

6. **Copy a file from HDFS.** We can also copy a file from HDFS to the local file system. Run *hadoop fs -copyToLocal words2.txt .* to copy words2.txt to the local directory.

```
[cloudera@quickstart Downloads]$ hadoop fs -copyToLocal words2.txt
[cloudera@quickstart Downloads]$ █
```

Let's run *ls* to see that the file was copied to see that words2.txt is there.

```
[cloudera@quickstart Downloads]$ ls
words2.txt  words.txt
[cloudera@quickstart Downloads]$ ▊
```

7. **Delete a file in HDFS.** Let's the delete words2.txt in HDFS. Run *hadoop fs -rm words2.txt*

```
[cloudera@quickstart Downloads]$ hadoop fs -rm words2.txt
16/02/12 15:17:01 INFO fs.TrashPolicyDefault: Namenode trash configuration: Dele
tion interval = 0 minutes, Emptier interval = 0 minutes.
Deleted words2.txt
[cloudera@quickstart Downloads]$ ▊
```

Run *hadoop fs -ls* to see that the file is gone.

```
[cloudera@quickstart Downloads]$ hadoop fs -ls
Found 1 items
-rw-r--r--   1 cloudera cloudera    5458199 2016-02-12 15:14 words.txt
[cloudera@quickstart Downloads]$ ▊
```

Mark as completed