

Programming Environment

Outline

- 1 Programming Environment
- 2 Working on a Project

Programming Environment

Programming Environment

Linux, Mac, or Windows operating system configured with the software needed for the course



Programming Environment

Linux, Mac, or Windows operating system configured with the software needed for the course

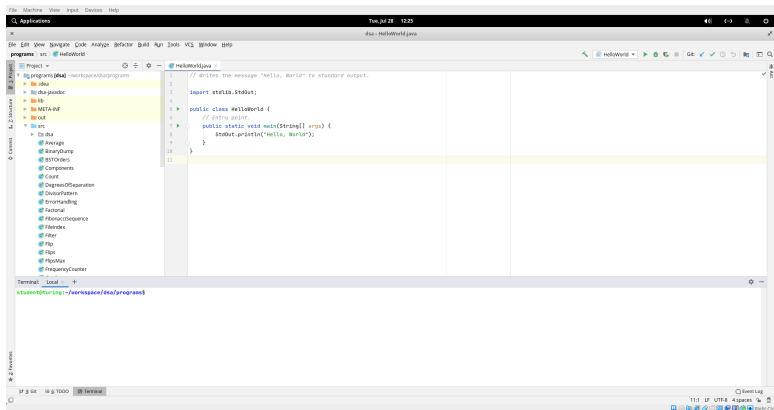


Tools we will use: web browser 🌐, IntelliJ IDE 🗑️, terminal 🖥️, and file manager 📁

Programming Environment

Programming Environment

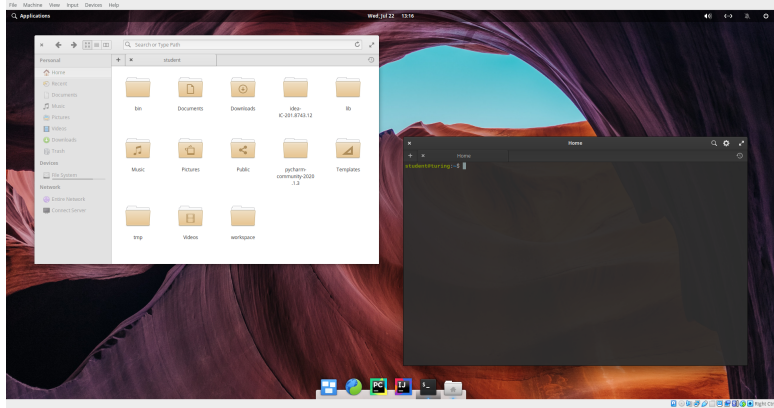
Use IntelliJ IDE  to create/edit/debug/run Java programs



Programming Environment

Programming Environment

Use terminal  and file manager  to navigate the file system



Working on a Project



Working on a Project

Download `https://www.cs.umb.edu/~siyer/teaching/cs210/project1.zip` under `~/workspace` (`~` is shorthand for the user's home directory)

Working on a Project

Download `https://www.cs.umb.edu/~siyer/teaching/cs210/project1.zip` under `~/workspace` (`~` is shorthand for the user's home directory)

Launch terminal

```
>_ ~
```

```
$ _
```

Working on a Project

Download `https://www.cs.umb.edu/~siyer/teaching/cs210/project1.zip` under `~/workspace` (`~` is shorthand for the user's home directory)

Launch terminal

```
>_ ~  
$ _
```

Change directory to `~/workspace`

```
>_ ~  
$ cd ~/workspace
```

Working on a Project

Download `https://www.cs.umb.edu/~siyer/teaching/cs210/project1.zip` under `~/workspace` (`~` is shorthand for the user's home directory)

Launch terminal

```
>_ ~  
$ _
```

Change directory to `~/workspace`

```
>_ ~  
$ cd ~/workspace
```

Extract the downloaded zip file

```
>_ ~/workspace  
$ unzip project1.zip
```

Working on a Project



Working on a Project

List current directory

```
>_ ~/workspace
```

```
$ ls  
project1 project1.zip
```


Working on a Project

List current directory

```
>_ ~/workspace
```

```
$ ls  
project1 project1.zip
```

Remove the zip file

```
>_ ~/workspace
```

```
$ rm project1.zip
```

Working on a Project

List current directory

```
>_ ~/workspace
```

```
$ ls  
project1 project1.zip
```

Remove the zip file

```
>_ ~/workspace
```

```
$ rm project1.zip
```

Exit the terminal

```
>_ ~/workspace
```

```
$ exit
```

Working on a Project



Working on a Project

Open `~/workspace/project1` in IntelliJ to work on the programs

Working on a Project

Open `~/workspace/project1` in IntelliJ to work on the programs

Compile a program (eg, `src/PercolationStats.java`) into the directory `out` on the IntelliJ terminal

```
>_ ~/workspace/project1
```

```
$ javac -d out src/PercolationStats.java
```

Working on a Project

Open `~/workspace/project1` in IntelliJ to work on the programs

Compile a program (eg, `src/PercolationStats.java`) into the directory `out` on the IntelliJ terminal

```
>_ ~/workspace/project1
```

```
$ javac -d out src/PercolationStats.java
```

Run a program (eg, `out/PercolationStats.class`) on the IntelliJ terminal

```
>_ ~/workspace/project1
```

```
$ java PercolationStats 100 1000
```

Working on a Project

Open `~/workspace/project1` in IntelliJ to work on the programs

Compile a program (eg, `src/PercolationStats.java`) into the directory `out` on the IntelliJ terminal

```
>_ ~/workspace/project1
```

```
$ javac -d out src/PercolationStats.java
```

Run a program (eg, `out/PercolationStats.class`) on the IntelliJ terminal

```
>_ ~/workspace/project1
```

```
$ java PercolationStats 100 1000
```

Use the web browser  to sign on to Gradescope and upload the project files