

Setup & Run Dronology:

1. Build the project: (first startup only)

Open new Terminal

```
cd /path/to/DronologyCourse (should be home/yourUser/git/ DronologyCourse)
mvn install
```

2. Start Dronology:

Start the Dronology Server:

Open new Terminal

```
cd /path/to/DronologyCourse/edu.nd.dronology.services.launch
mvn exec:java
```

Start the User Interface:

Open new Terminal

```
cd /path/to/DronologyCourse/edu.nd.dronology.ui.vaadin
mvn jetty:run
```

Open your browser at <http://localhost:8080/vaadinui>.

3. Configure the Dronology GCS: (first startup only / modify drones)

➔ Modify the ardupath specified in

~/git/DronologyCourse/python/edu.nd.dronology.gstation1.python/cfg/global_cfg.json:

```
{
  "ardupath": "/home/bayley/git/ardupilot"
}
```

➔ Configure your SITL drones specified in

~/git/DronologyCourse/python/edu.nd.dronology.gstation1.python/cfg/drone_cfgs

e.g., default.json:

(modify this file or create your own nd.json)

```
[
  {
    "vehicle_type": "VRTL",
    "vehicle_id": "ND-1",
    "home": [41.698853, -86.233929]
  },
  {
    "vehicle_type": "VRTL",
    "vehicle_id": "ND-2",
    "home": [41.697947, -86.233919]
  }
]
```

4. Start the Dronology GCS:

```
cd ~/git/DronologyCourse/python/edu.nd.dronology.gstation1.python/src
python main.py -d ../cfg/drone_cfgs/nd.json
```