This application consists of two Python scripts and two Bash helper scripts:

biyori.py
biyori.sh
get_radar.py
radar.sh

**Virtual Environment Setup:**

Open a terminal and type: cd ~
*That will insure you are in your home root.*
To create a virtual environment type: python3 -m venv Biyori
Change to the new directory type: cd Biyori
To activate the virtual environment type: source bin/activate
Download the Biyori zip and unzip the contents.
Copy all files to the Biyori folder you just created.
To install the 3rd party modules type: pip install -r requirements.txt

**Your terminal or different path or name for Biyori**

You are ready to run, but we need to change some things if you changed the path from /home/*yourusername*/Biyori to something else. If you stuck with the path I suggest, you can skip this.

Edit radar.sh and point to the path you used.
Edit biyori.sh and do the same. This is the file you will need if you wish to start this as a widget in Wave terminal.
Edit biyori.py and change the path at line 954. Also,

I am using Tabby terminal. If you use something else you need to edit line 954, shouldlook like this:

subprocess.call(["tabby", "run", f"/home/{username}/Biyori/radar.sh"], shell=False)

Change to your terminal. gnome-terminal would look like this:

subprocess.call(["gnome-terminal", "--", f"/home/{username}/Biyori/radar.sh"], shell=False)

**Running Biyori**

Make sure the .sh files have execute permissions. You can right click and make them executable in properties or in terminal with:

```
chmod +x biyori.sh
chmod +x radar.sh
```

Now you can open a terminal and type:

```
sh ~/Biyori/biyori.sh
```

Same for radar:

```
sh ~/Biyori/radar.sh
```

Again, change the path if you deviated from this document in the sh files.

You can also run them directly:

```
cd Biyori
source bin/activate
python3 biyori.py
```
or
```
python3 get_radar.py
```

get_radar will only run the radar in stand-alone.

**Biyori weather configuration**

When you run Biyori for the first time it will create a config file in /home/*youusername/.config/biyori.

You need to edit that file. Change it for your location by updating lat, long, and state. You can also set to metric, Celsius if you prefer.

**Config defaults:**

```
[DEFAULT]
location = 40.036282,-83.000762
state = Ohio
temperature_unit = fahrenheit
wind_speed_unit = mph
precipitation_unit = inch
refresh_rate = 15
```

**Radar configuration**

Read the bottom of the get_radar.py file around line 70 and make your changes there. I have not included them in the config file. Here are my settings:

```
current_user = getpass.getuser() # Set your username manually if
this fails.

smooth = True           # use smooth chars.
loop = True             # loop animated gif.
refresh_radar = True  # Update radar image every 15 minutes.
refresh_rate = 15      # Image download freq. in minutes.
wait_to_load = 2       # Waits for the image to download in seconds.

# Image/Frames adjuectments
adjust_sharpness = 1.0
adjust_color_vibrancy = 2.0
adjust_brightness = 0.0
swap_white = False    # swap white for black pixels.

# Where to put image?
image_store = f"/home/{current_user}/Biyori/radar.gif"

# Where to get image? Currently NWS.
radar_image_url =
"https://www.weather.gov/images/iln/ilnbrf/mrms_radar_loop.gif"
```

You will need to find a radar image or gif for your location.

**Make it an icon in Linux menus.**

You can also create a .desktop file for both using the run commands above You can supply an icon and have them show in the Linux menus or Apps section in Gnome. Save the desktop file as radar.desktop or biyori.desktop in the folder:
/home/*yourusername*/.local/share/applications

**Example desktop file:**

```
[Desktop Entry]
Version=1.0
Type=Application
Name=Biyori Terminal Weather
GenericName=Biyori
Comment=Curses based weather
Exec=sh /home/*yourusername*/Biyori/biyori.sh
Icon=/home/*yourusername*/Biyori/biyori.svg
Terminal=true
Categories=Weather;Biyori
```