# **Interactive Booth for Open House Events:**

## **Creating Weather Animations with Python & NOAA Dat**

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## 

## **Objective**

Visitors (students, parents, or anyone interested) should be able to:

* Interact in a playful and low-threshold way with real weather data visualizations
* Create their own weather animation – e.g., for a specific date like their birthday
* Receive their animation via email if desired

## **Booth Setup**

| **Item** | **Description** |
| --- | --- |
| **Laptop + Screen or Beamer** | Displays the Google Colab Notebook |
| **Colab Notebook** | Opened in advance – ready for user input |
| **Visitor Interface** | A clearly marked section in the notebook: input field for date, and a button to run the code |
| **Email List** | Paper or digital form for visitors to write down their email address, if they want to receive their animation later |
| **Staff Member** | Briefly explains the project, helps with input and questions |

## 

## **Visitor Flow**

### **1. Short Welcome & Explanation (1–2 minutes)**

* "Here you can create a real weather animation using data from the US climate agency NOAA."
* "For example, choose your birthday – we’ll show you what the weather looked like on that day around the world."

### **2. Interactive Input**

* Visitors run the script (in its fully automated version).
* The notebook asks a few questions (e.g., "Which variable would you like to plot?").

### **3. Viewing the Result**

* The animation or map is generated (this may take a few minutes, depending on settings).
* View the animation together, explain what is shown, and highlight interesting features (e.g., storms, jet streams, ITCZ).

### **4. Take It Home via Email (optional)**

* Visitors write down their email address on a list (or directly in the notebook if automated).
* The animation is sent to them after the event as a .gif or .mp4.

## **Staff Member – Responsibilities**

* Greet visitors and spark interest
* Explain how to run the code and how to respond to the input prompts
* Provide help if needed (e.g., browser issues, no output, error messages)
* Answer questions about weather phenomena or the code itself
* Collect email addresses securely (in compliance with data protection regulations)