Watching the Weather With Github Actions

John Keefe

The New York Times

bit.ly/nicar25-weather

If you don't have an Github account, make a free one now at github.com



Today's workshop

- Learn about the Weather Service API
- Make your own copy of my code to take home
- Learn about Github Actions
- Learn about Github Codespaces
- Set up Slack to get messages
- Set up Github with the settings you need
- Make it go



Notes, links & code

Weather

Demo!

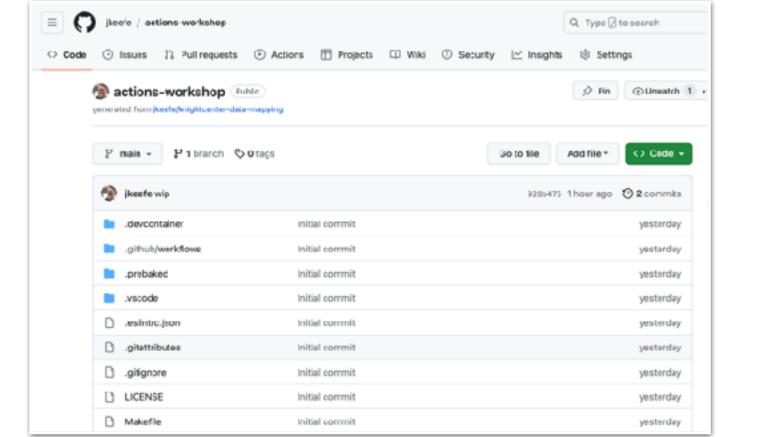




jkeefe/weather-newsrooms-nicar25

Weather Service











- properties: {



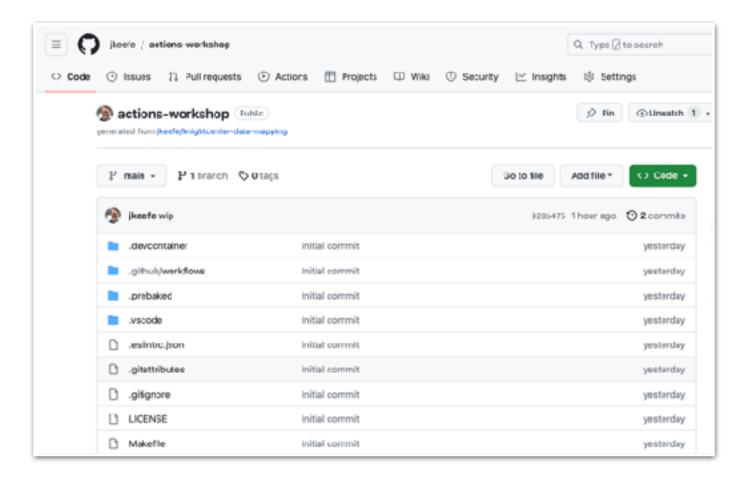
Repository

jkeefe/weather-newsrooms-nicar25

Weather Service







```
"<a href="https://api.weather.gov/alerts/urn:oid:2.49.0.1.840.0.d98069872072e35fb220272617b5d049d649ecd7.001.2" https://api.weather.gov/alerts/urn:oid:2.49.0.1.840.0.d98069872072e35fb220272617b5d049d649ecd7.001.2"</a>
@type: "wx:Alert",
id: "urn:oid:2.49.0.1.840.0.d98069872072e35fb220272617b5d049d649ecd7.001.2",
areaDesc: "Osceola; O'Brien; Cherokee; Woodbury; Lyon; Murray; Nobles",
+ geocode: { ... },
+ affectedZones: [ ... ],
references: [ ],
 sent: "2025-03-05T11:35:00-06:00",
 effective: "2025-03-05T11:35:00-06:00",
 onset: "2025-03-05T11:35:00-06:00",
 expires: "2025-03-05T18:00:00-06:00",
 ends: "2025-03-05T18:00:00-06:00",
 status: "Actual",
 messageType: "Alert",
 category: "Met",
 severity: "Moderate",
 certainty: "Likely",
urgency: "Expected",
event: "Winter Weather Advisory",
sender: "w-nws.webmaster@noaa.gov",
 senderName: "NWS Sioux Falls SD",
 headline: "Winter Weather Advisory issued March 5 at 11:35AM CST until March 5 at 6:00PM CST by NWS
 description: "* WHAT...Areas of blowing snow. Winds gusting as high as 45 mph.
* WHERE...Portions of northwest and west central Iowa and southwest
* WHEN...Until 6 PM CST this evening.
```

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Winter Weather Advisory

Winter Weather Advisory issued March 5 at 11:35AM CST until March 5 at 6:00PM CST by NWS Sioux Falls SD

Locations/counties included: Osceola; O'Brien; Cherokee;

Woodbury; Lyon; Murray; Nobles

Warning time: 2025-03-05T11:35:00-06:00

See thread **I** for details ...

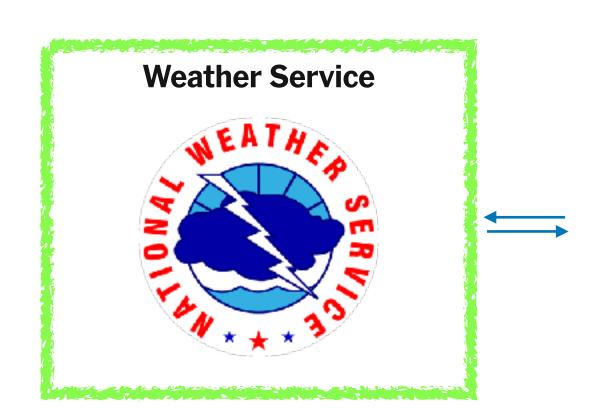


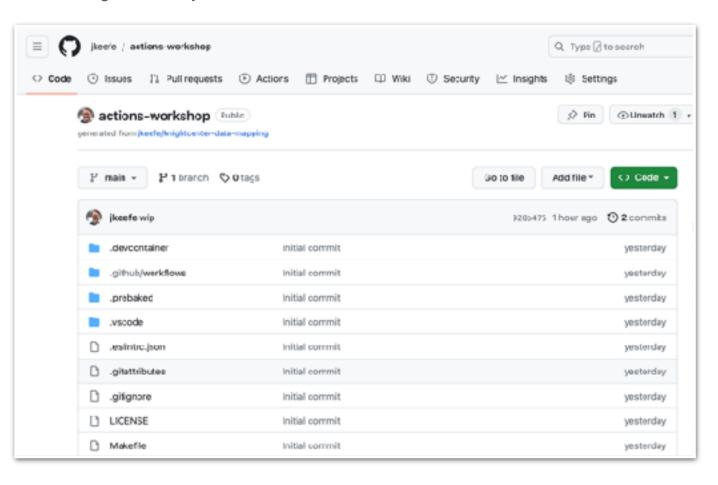
1 reply Today at 3:29 PM





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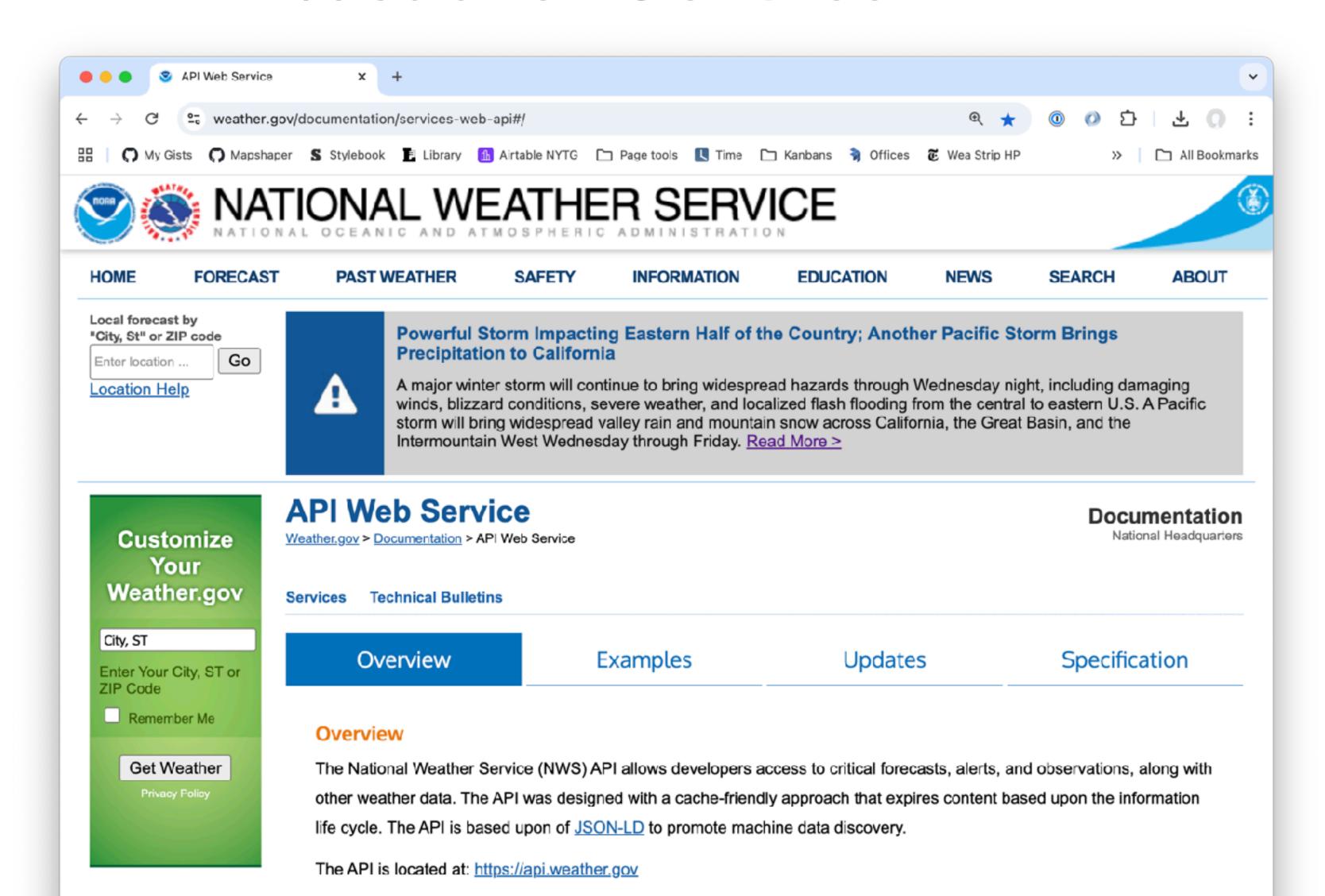




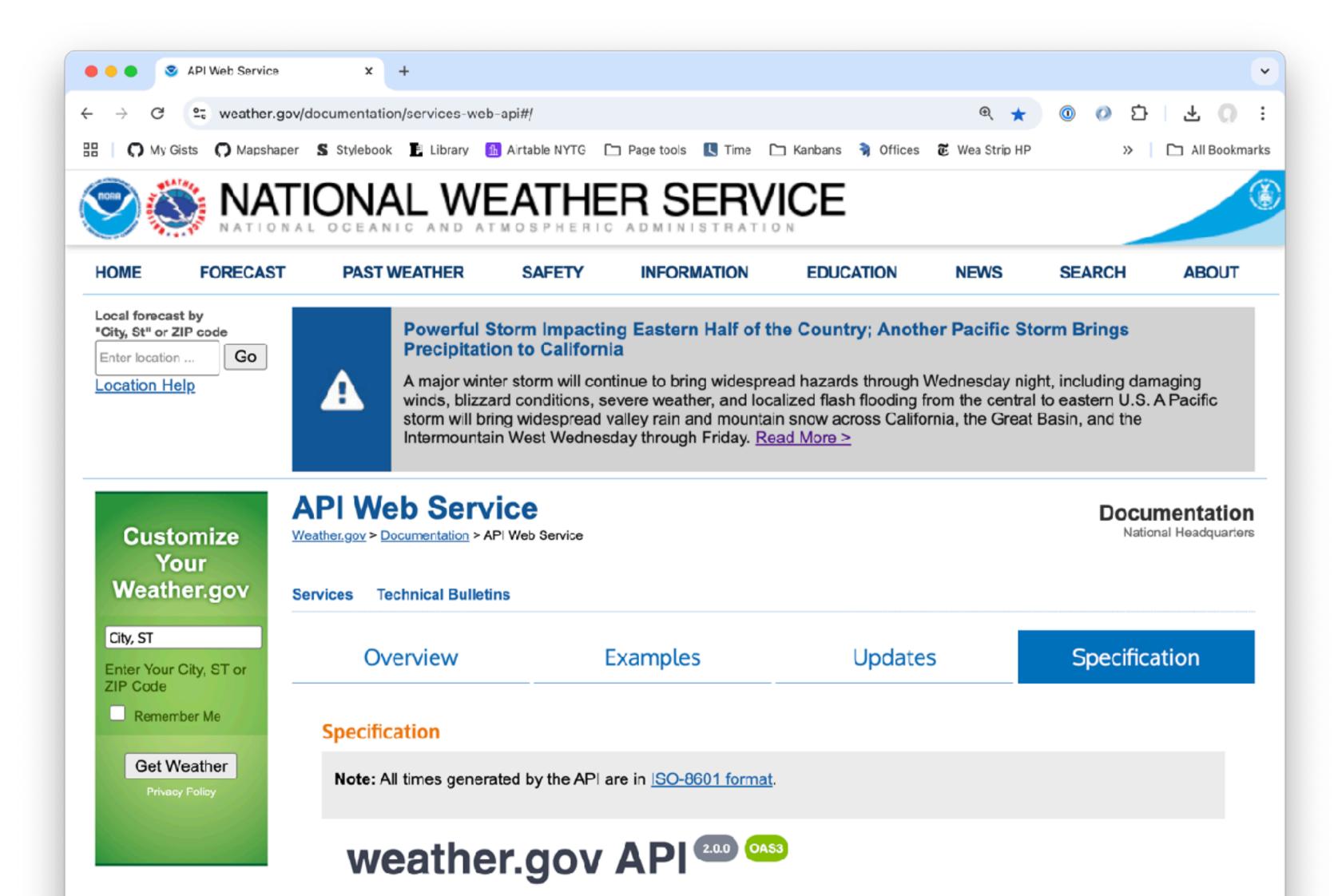


https://www.weather.gov/documentation/services-web-api

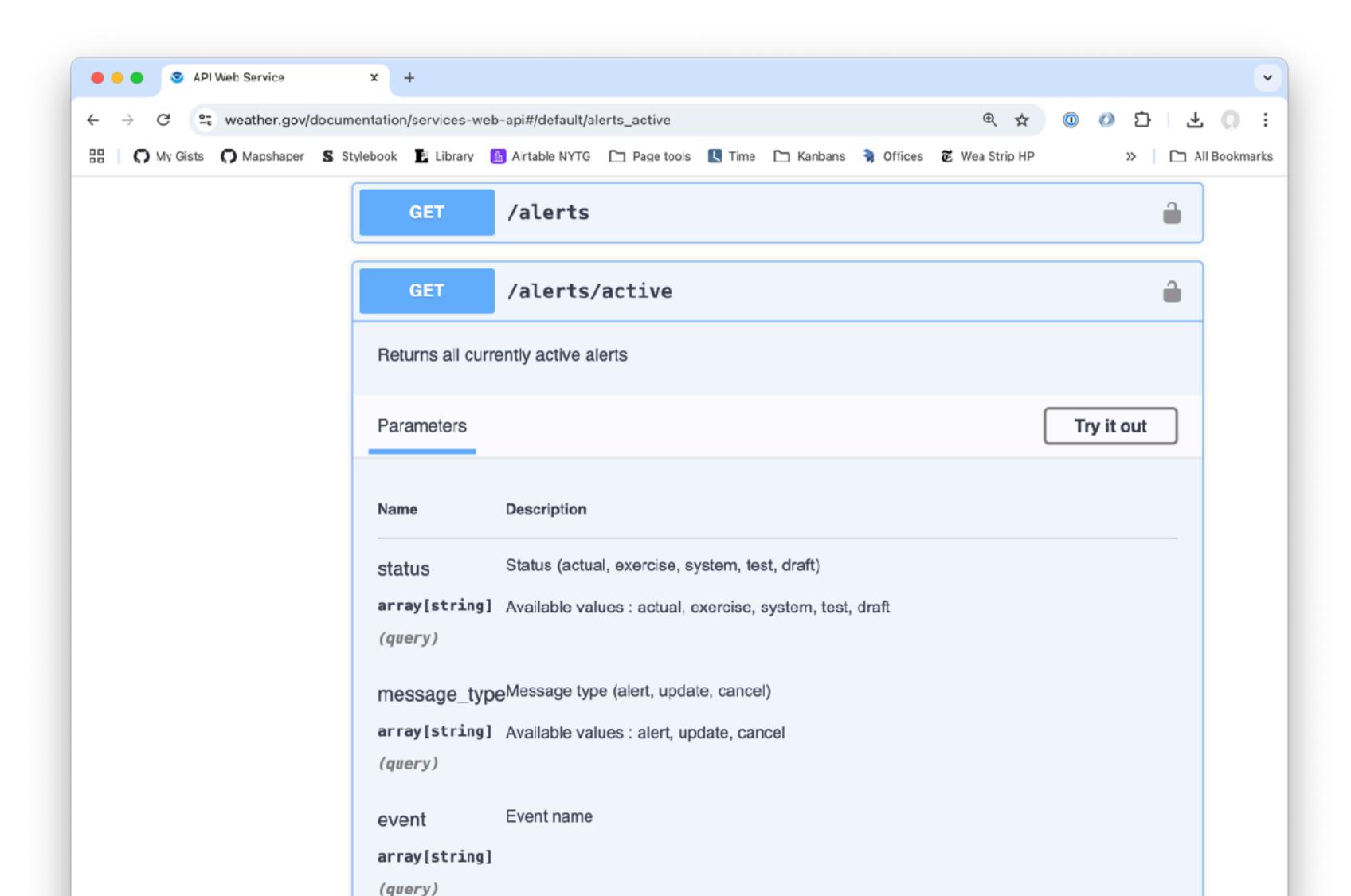


























```
- features: [
        id: "https://api.weather.gov/alerts/urn:oid:2.49.0.1.840.0.d98069872072e35fb220272617b5d049d649ecd7.002.1",
        type: "Feature",
        geometry: null,
       - properties: {
            @id: "https://api.weather.gov/alerts/urn:oid:2.49.0.1.840.0.d98069872072e35fb220272617b5d049d649ecd7.002.1",
            @type: "wx:Alert",
            id: "urn:oid:2.49.0.1.840.0.d98069872072e35fb220272617b5d049d649ecd7.002.1",
            areaDesc: "Sioux; Plymouth; Lincoln; Dixon; Dakota; Union",
          + geocode: { ... },
          + affectedZones: [ ... ],
          + references: [ ... ],
            sent: "2025-03-05T11:35:00-06:00",
            effective: "2025-03-05T11:35:00-06:00",
            onset: "2025-03-05T11:35:00-06:00",
            expires: "2025-03-05T12:45:00-06:00",
            ends: "2025-03-05T12:00:00-06:00",
            status: "Actual",
            messageType: "Update",
            category: "Met",
            severity: "Extreme",
            certainty: "Likely",
            urgency: "Expected",
            event: "Blizzard Warning",
            sender: "w-nws.webmaster@noaa.gov",
            senderName: "NWS Sioux Falls SD",
            headline: "Blizzard Warning issued March 5 at 11:35AM CST until March 5 at 12:00PM CST by NWS Sioux Falls SD",
            description: "Winds continue to weaken while visibilities improve this afternoon.",
            instruction: null,
            response: "Prepare",
          - parameters: {
              – AWIPSidentifier: [
                   IIIICMECDII
```

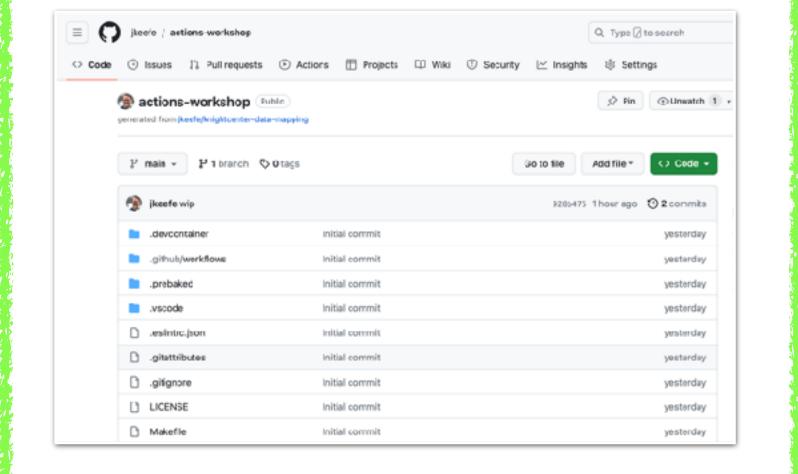




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jkee/e / actions-workshop

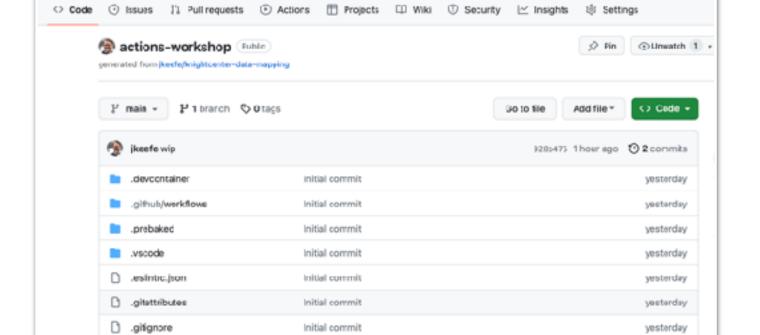
LICENSE

Makefile
 Makefile

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Weather Service





Initial commit

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your-name/weather-newsrooms-nicar25



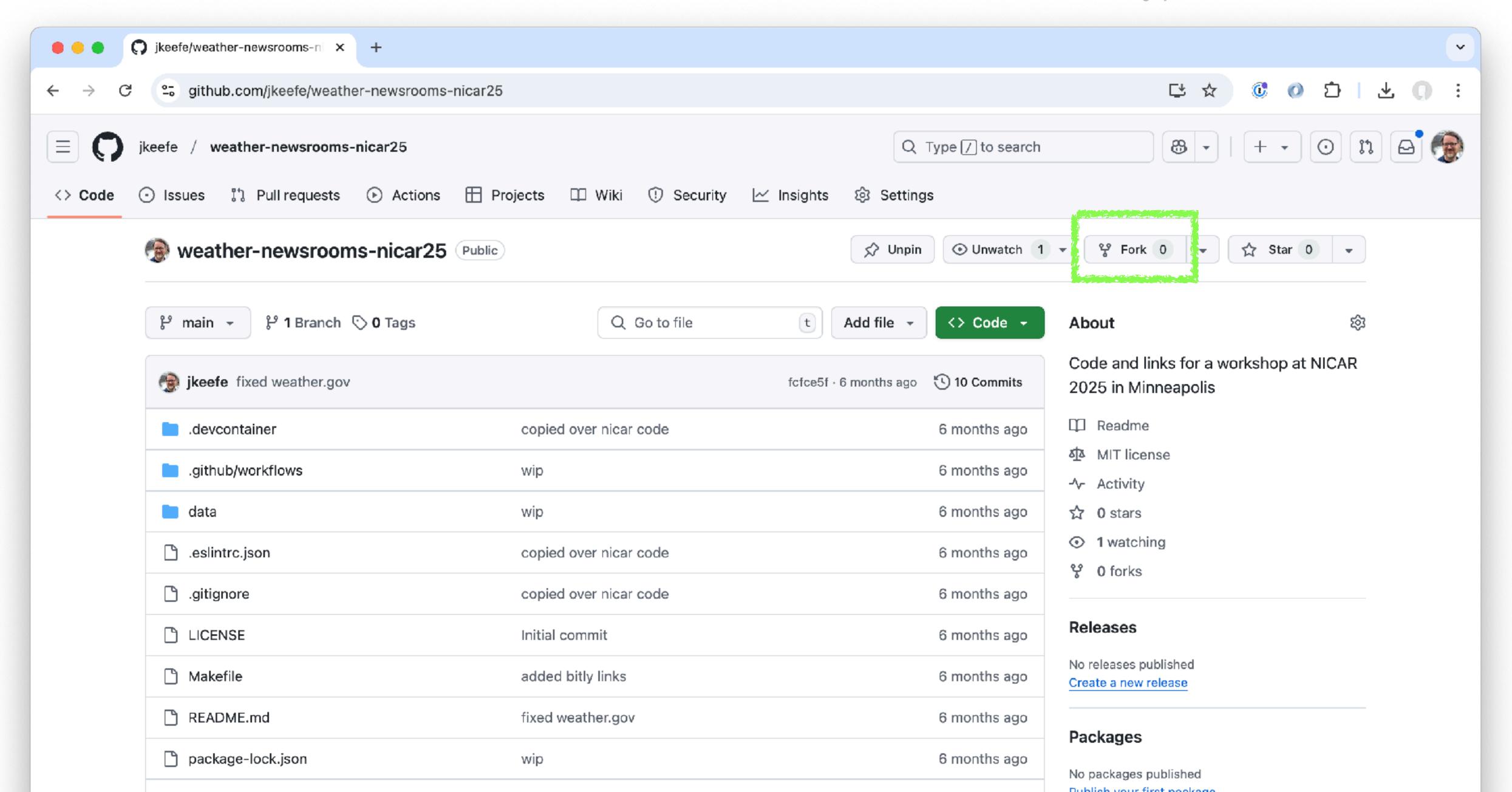
Weather Service

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	P main - P 1 branch 🛇 0 to	ıçs	Go to file Add file * Code *
	(jkeefe wip		3285475 1 hour ago 1 2 commits
	devcontainer	initial commit	yesterday
	github/workflows	Initial commit	yesterday
	prebaked	Initial commit	yesterday
	.vscode	Initial commit	yesterday
	.esintic.json	Initial commit	yesterday
	gitattributes	Initial commit	yesterday
	gitignore	Initial commit	yesterday
	LICENSE	Initial commit	yesterday
	☐ Makefle	Initial commit	yesterday

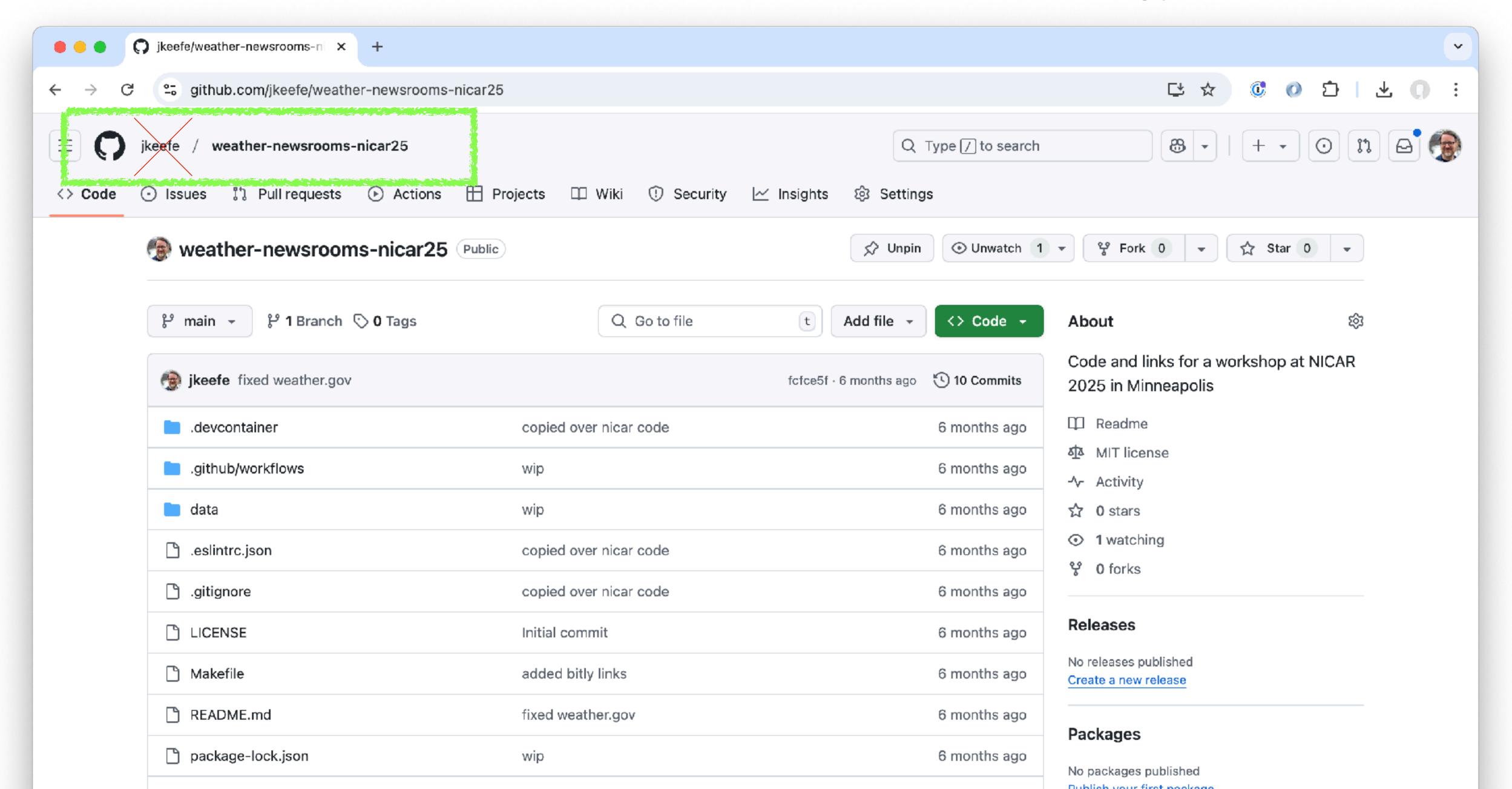
















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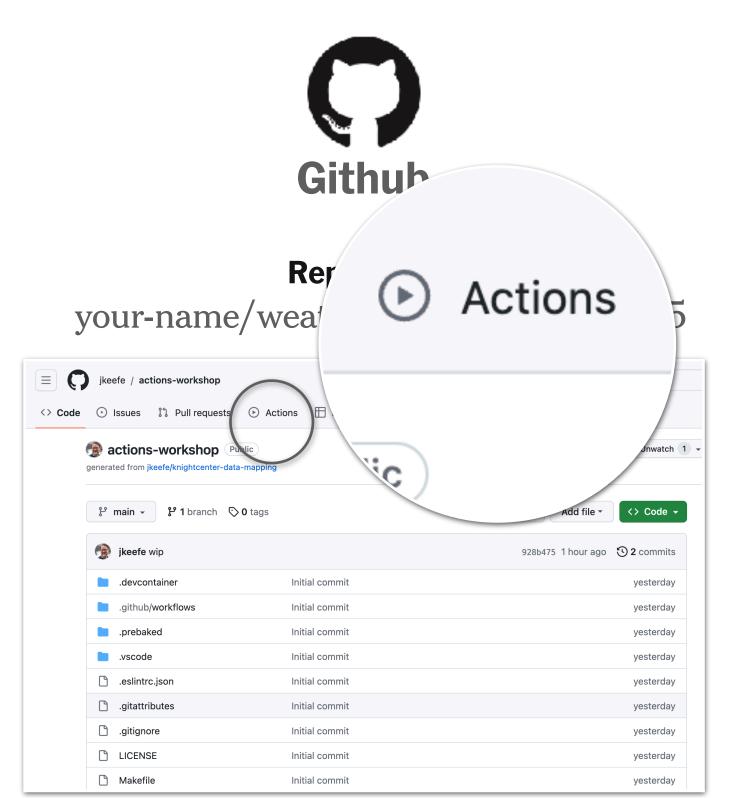
Weather Service

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	.vscode	Initial commit	yesterday
	.esintic.json	Initial commit	yesterday
	gitattributes	Initial commit	yesterday
	gitignore	Initial commit	yesterday
	LICENSE	Initial commit	yesterday
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Weather



Weather Service



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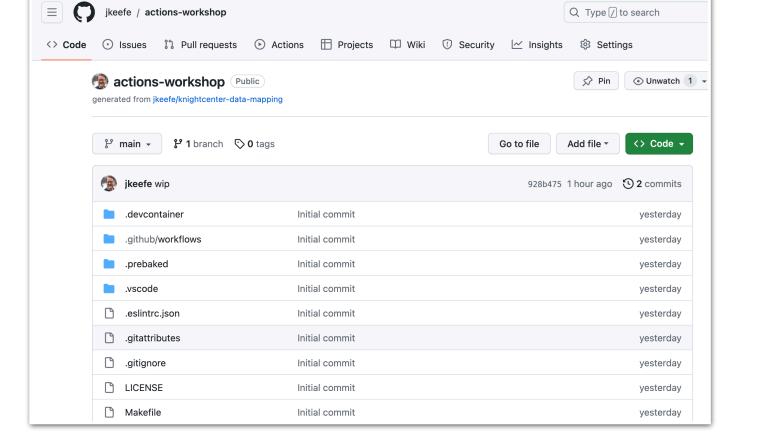




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Weather Service





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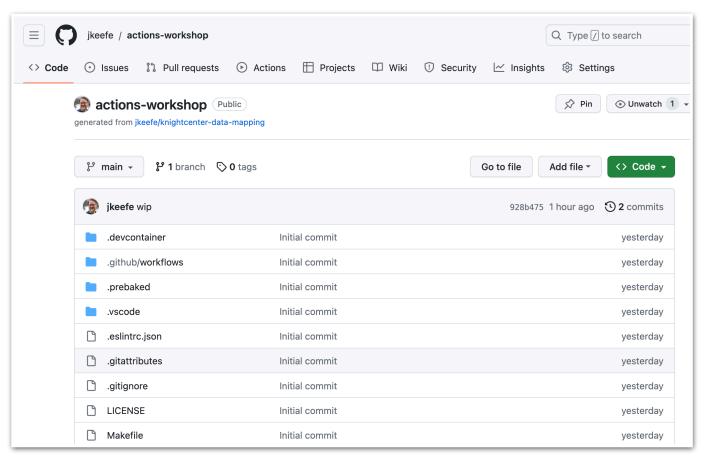






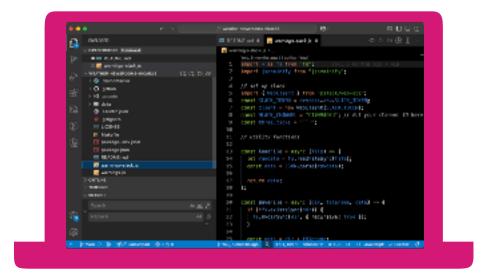
your-name/weather-newsrooms-nicar25







Locally on Your laptop







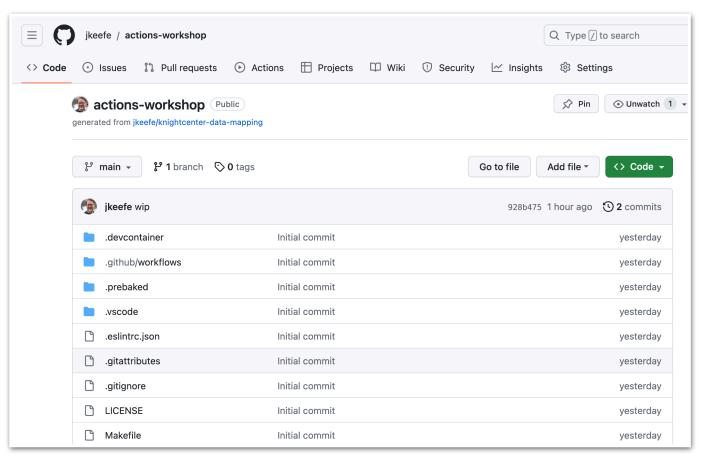




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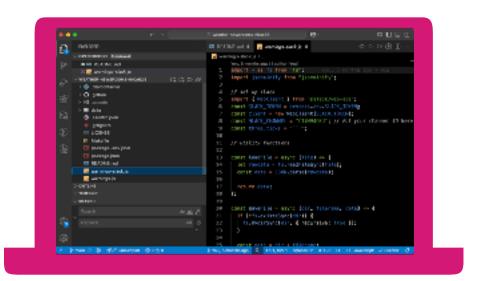
Weather Service

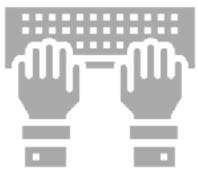






Locally on Your laptop





You

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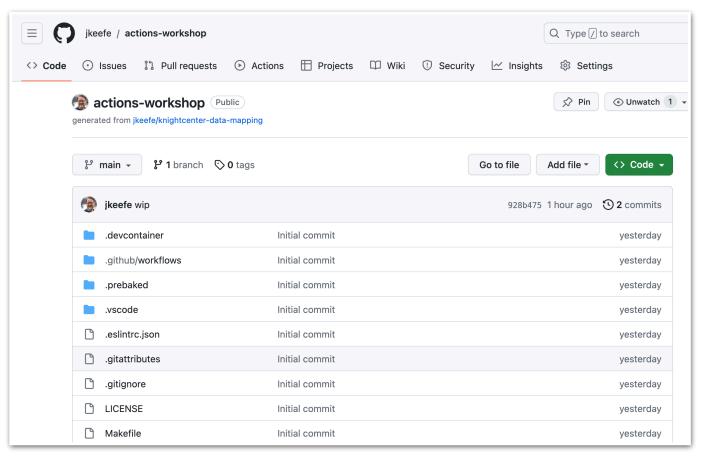




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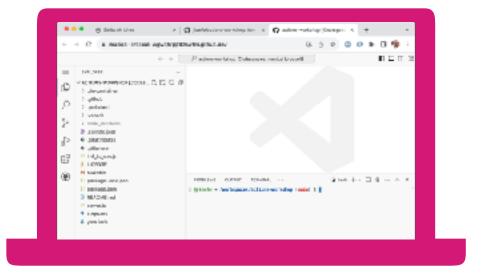
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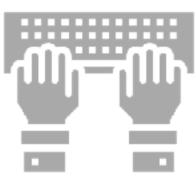






Github Codespaces



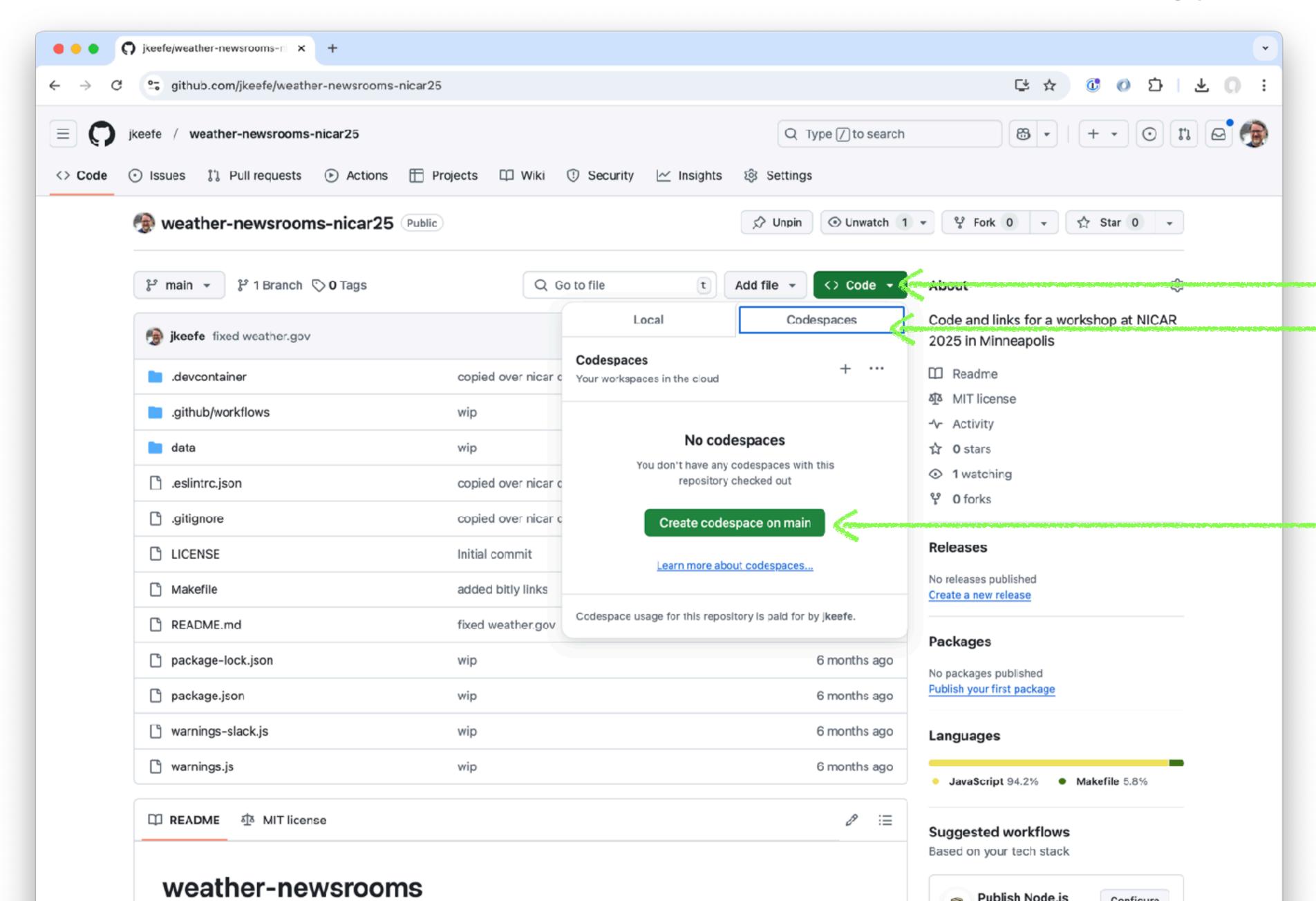


You

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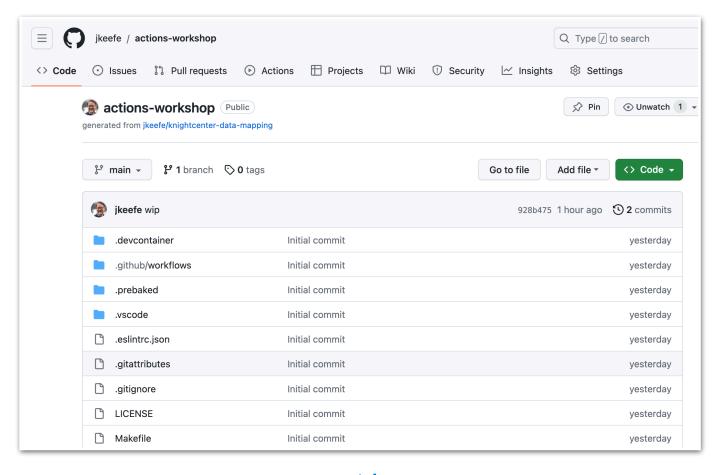




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