

index.qmd x

Render on Save ABC 🔍 Render ⚙️

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Source Visual Outline

```
1 ---
2 title: "Reproducible Report: Lincoln Weather Analysis"
3 format: html
4 ---
5
6 ## Lincoln, NE 2016 Temperature Distribution
7
8 ### Overview
9
10 This Quarto document demonstrates how to integrate external data, R code, and advanced visualizations
11 into a single, seamless report. We are using the built-in lincoln_weather dataset from the ggridges
12 package to explore the distribution of mean daily temperatures throughout the year 2016.
13 Ridge Plot Visualization
14
15 ```{r}
16 # Load necessary visualization and data libraries
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18 library(ggridges)
19 library(viridis)
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21 # Load the data, which is included in the ggridges package
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24 # Generate the plot
25 ggplot(
26   lincoln_weather,
27   # Use after_stat(x) for the fill aesthetic, representing the temperature gradient
28   aes(x = 'Mean Temperature [F]', y = 'Month', fill = after_stat(x))
29 ) +
30   geom_density_ridges_gradient(scale = 3, rel_min_height = 0.01) +
31   scale_fill_viridis(name = "Temp [F]", option = "C")
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12:1 Overview ⌄ Quarto ⌄

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quarto®







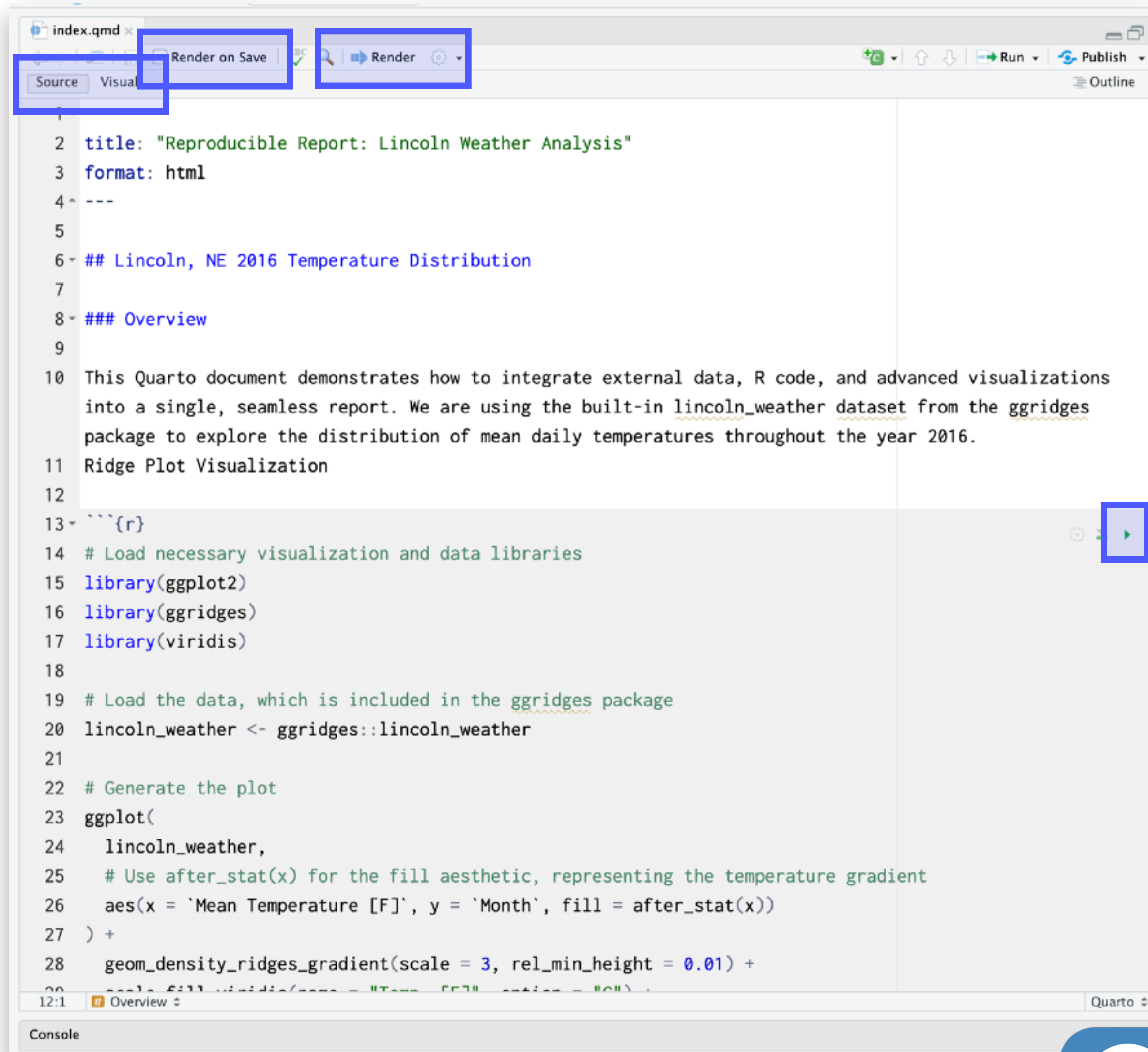




A solid blue circle with a white capital letter 'R' centered inside it.

R

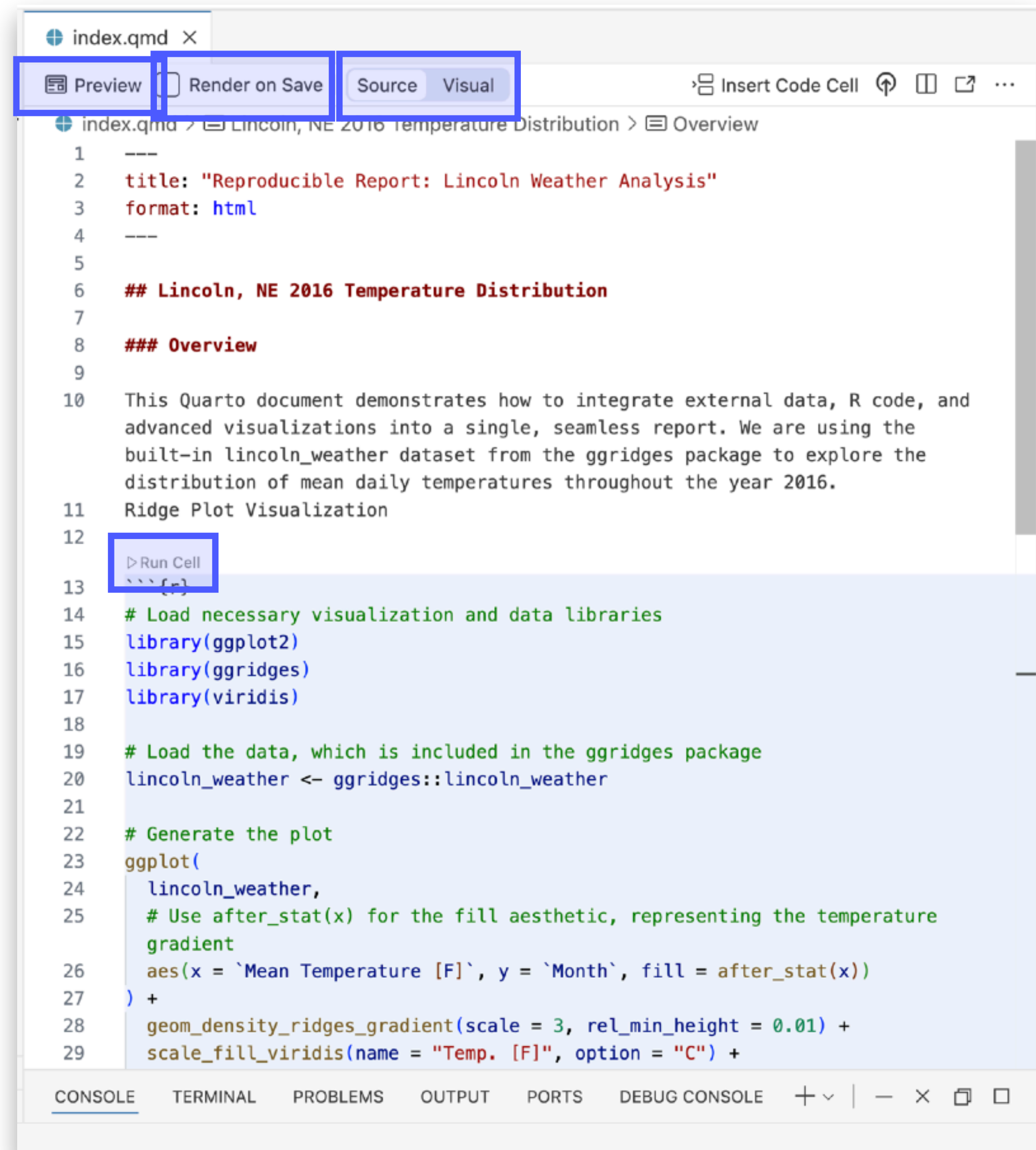




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Reproducible Report: Lincoln Weather Analysis

Lincoln, NE 2016 Temperature Distribution

Overview

This Quarto document demonstrates how to integrate external data, R code, and advanced visualizations into a single, seamless report. We are using the built-in `lincoln_weather` dataset from the `ggridges` package to explore the distribution of mean daily temperatures throughout the year 2016. Ridge Plot Visualization

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Loading required package: viridisLite

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) +
  geom_density_ridges_gradient(scale = 3, rel_min_height = 0.01) +
  scale_fill_viridis(name = "Temp. [F]", option = "C") +
  labs(
    title = "Monthly Mean Temperature Distributions in Lincoln NE (2016)",
    subtitle = "Higher density indicates more days at that specific temperature",
  ) +
```

SESSIONCONNECTIONSHelpVIEWER

← → ↺ http://localhost:5801/Zoom: (Auto)

Reproducible Report: Lincoln Weather Analysis

Lincoln, NE 2016 Temperature Distribution

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  scale_fill_viridis(name = "Temp. [F]", option = "C") +
  labs(
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    subtitle = "Higher density indicates more days at that specific temperature.",
  ) +
  theme_ridges() +
  theme(plot.title.position = "plot")
```

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Monthly Mean Temperature Distributions in Lincoln NE (2016)

Higher density indicates more days at that specific temperature.

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