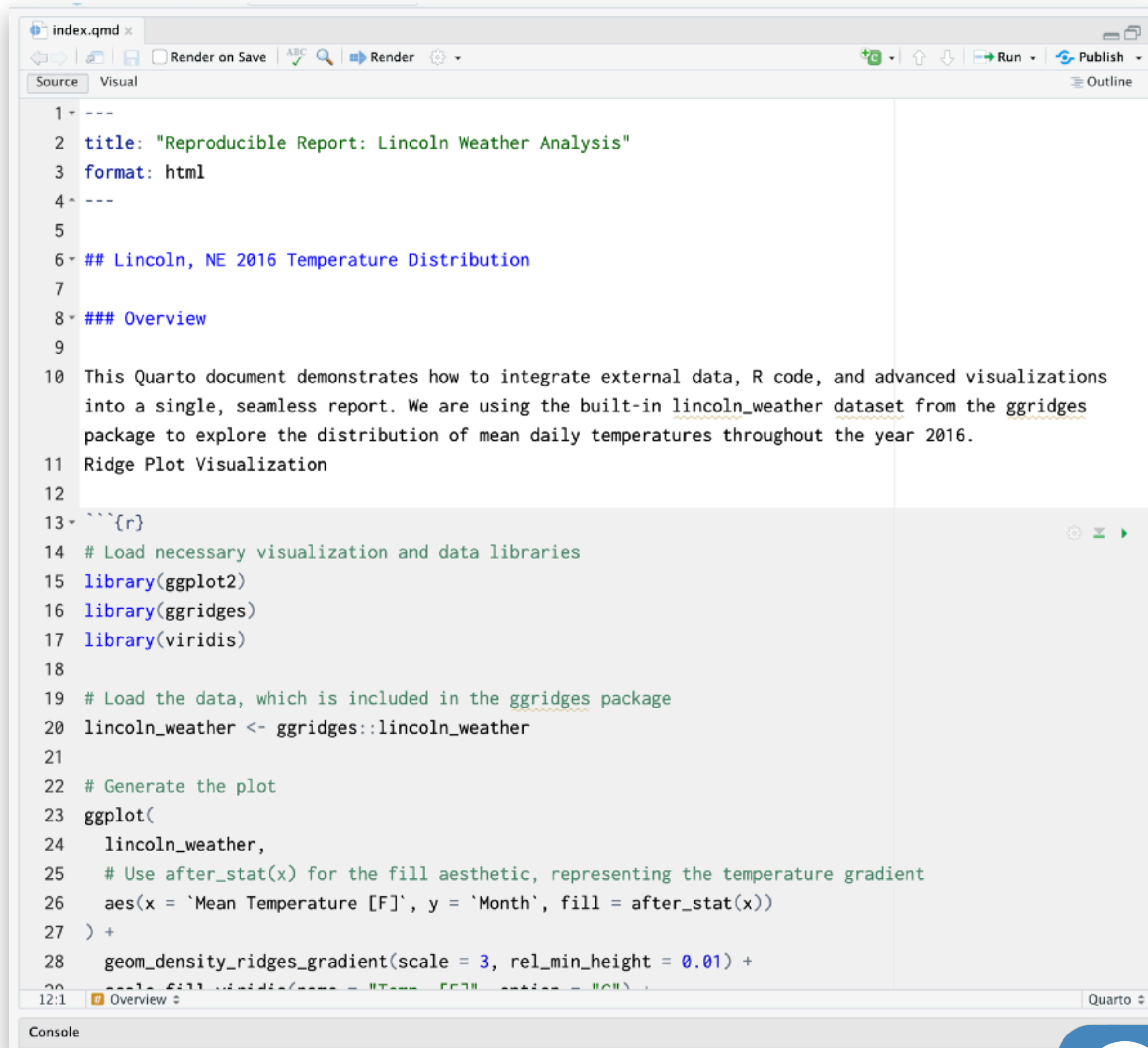
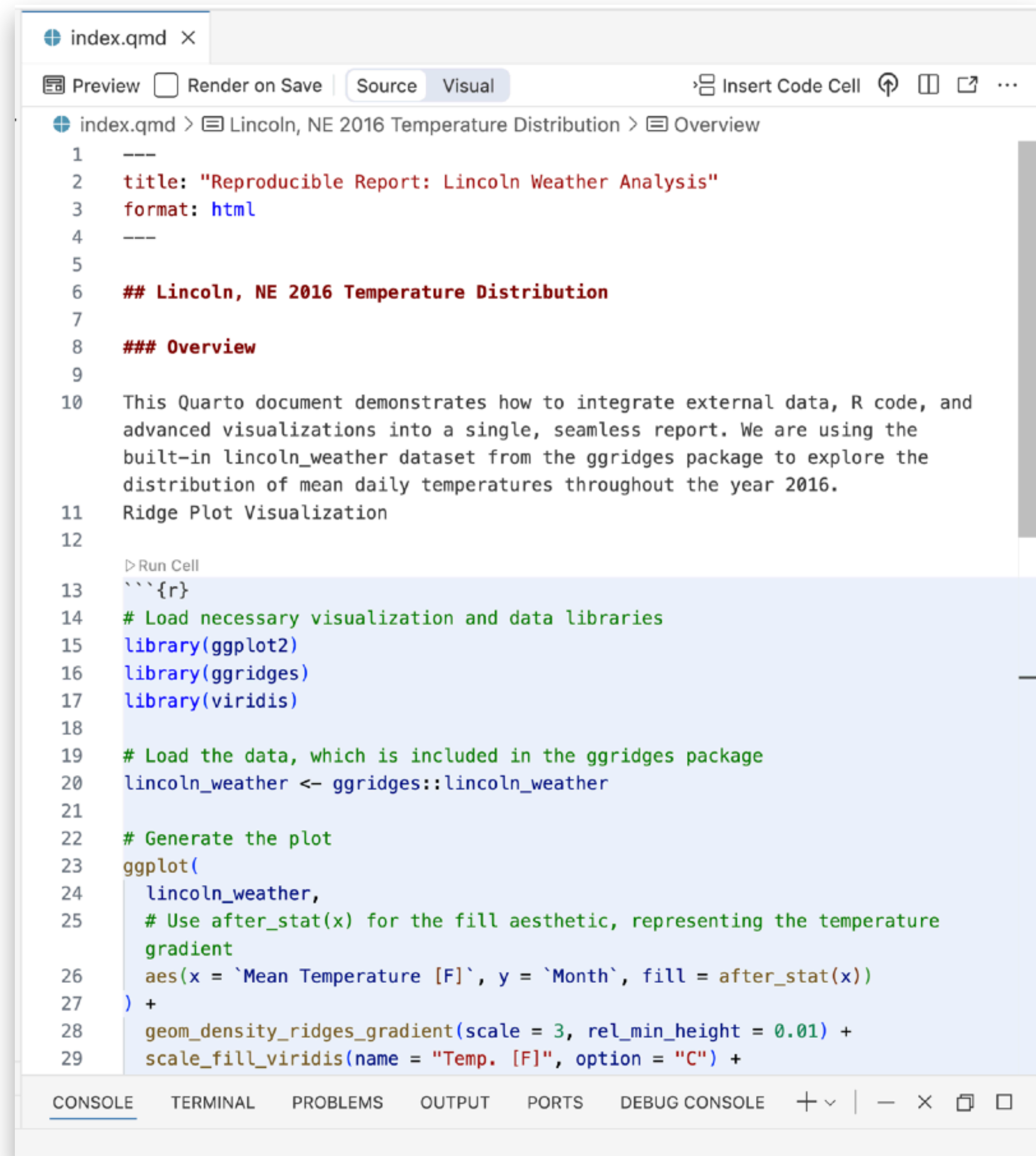




Quarto



```
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
17 library(ggplot2)
18 library(ggridges)
19 library(viridis)
20
21 # Load the data, which is included in the ggridges package
22 lincoln_weather <- ggridges::lincoln_weather
23
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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16 > Run Cell
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