index.qmd

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```
---
title: "Reproducible Report: Lincoln Weather Analysis"
format: html
---

## 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

```{r}
# Load necessary visualization and data libraries
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library(ggridges)
library(viridis)

# Load the data, which is included in the ggridges package
lincoln_weather <- ggridges::lincoln_weather

# Generate the plot
ggplot(
  lincoln_weather,
  # Use after_stat(x) for the fill aesthetic, representing the temperature gradient
  aes(x = `Mean Temperature [F]`, y = `Month`, fill = after_stat(x))
) +
  geom_density_ridges_gradient(scale = 3, rel_min_height = 0.01) +
```

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Console
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```

CONSOLE | TERMINAL | PROBLEMS | OUTPUT | PORTS | DEBUG CONSOLE
```


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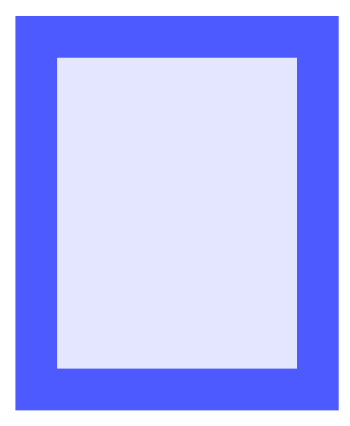

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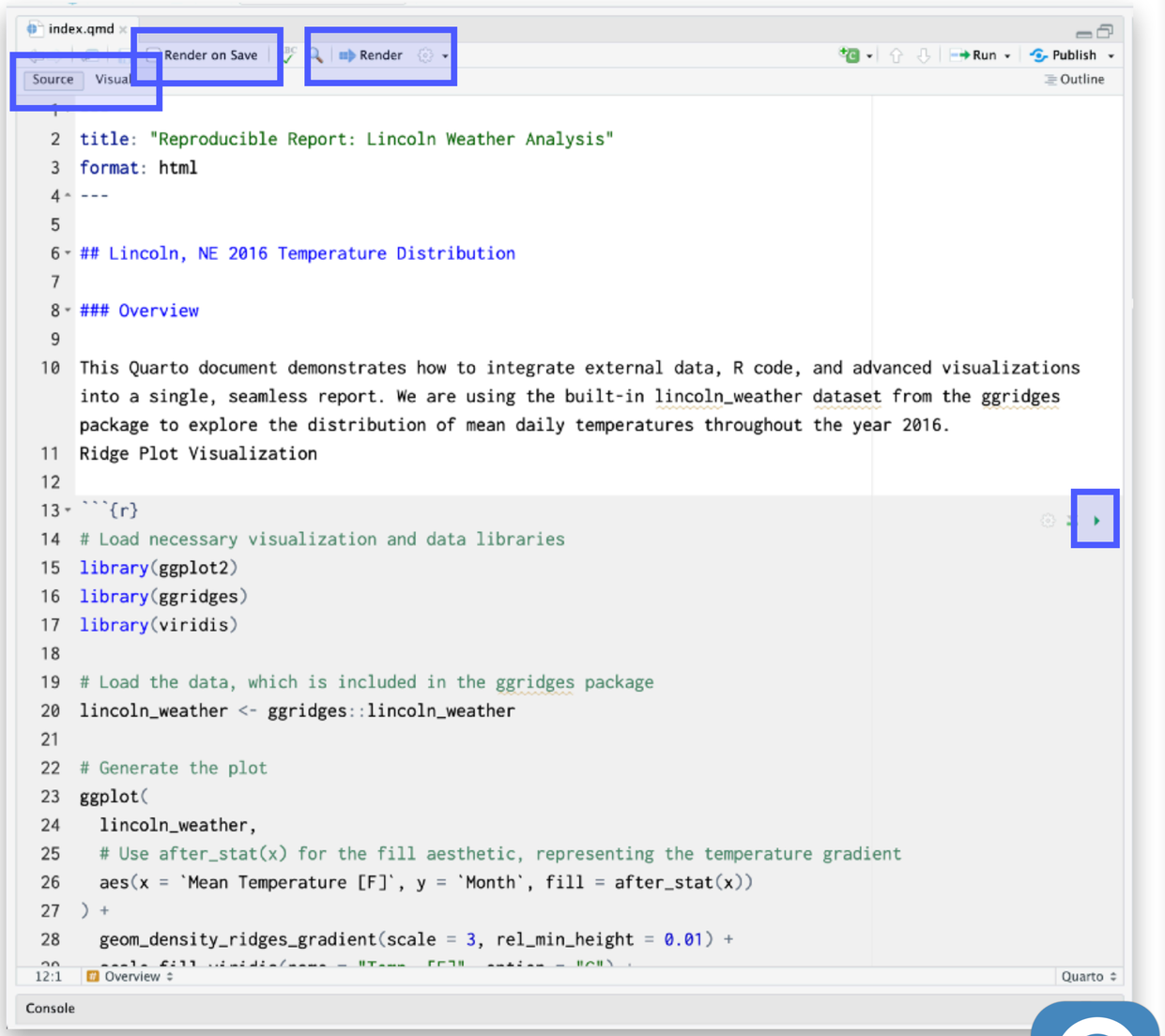
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Render
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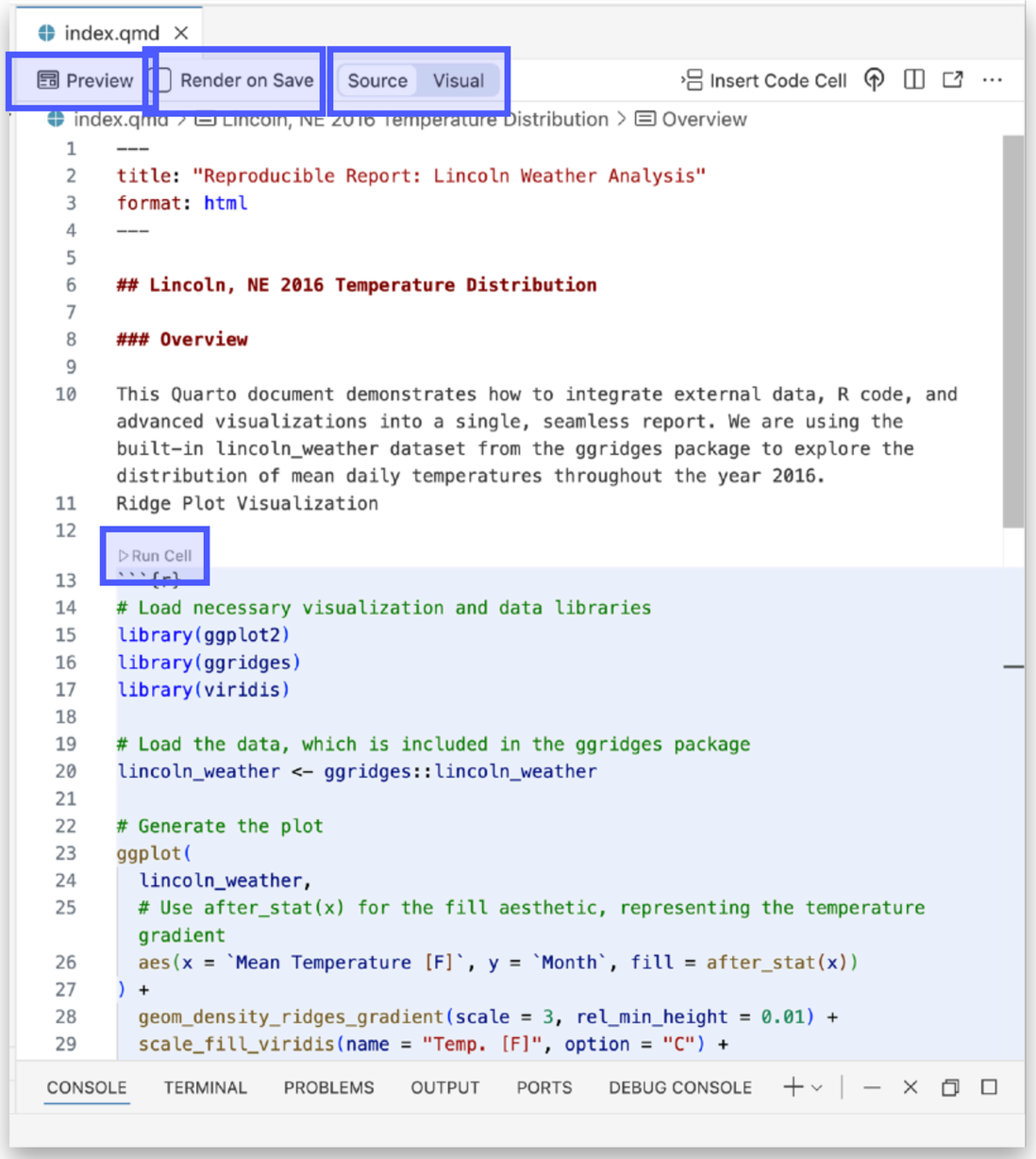
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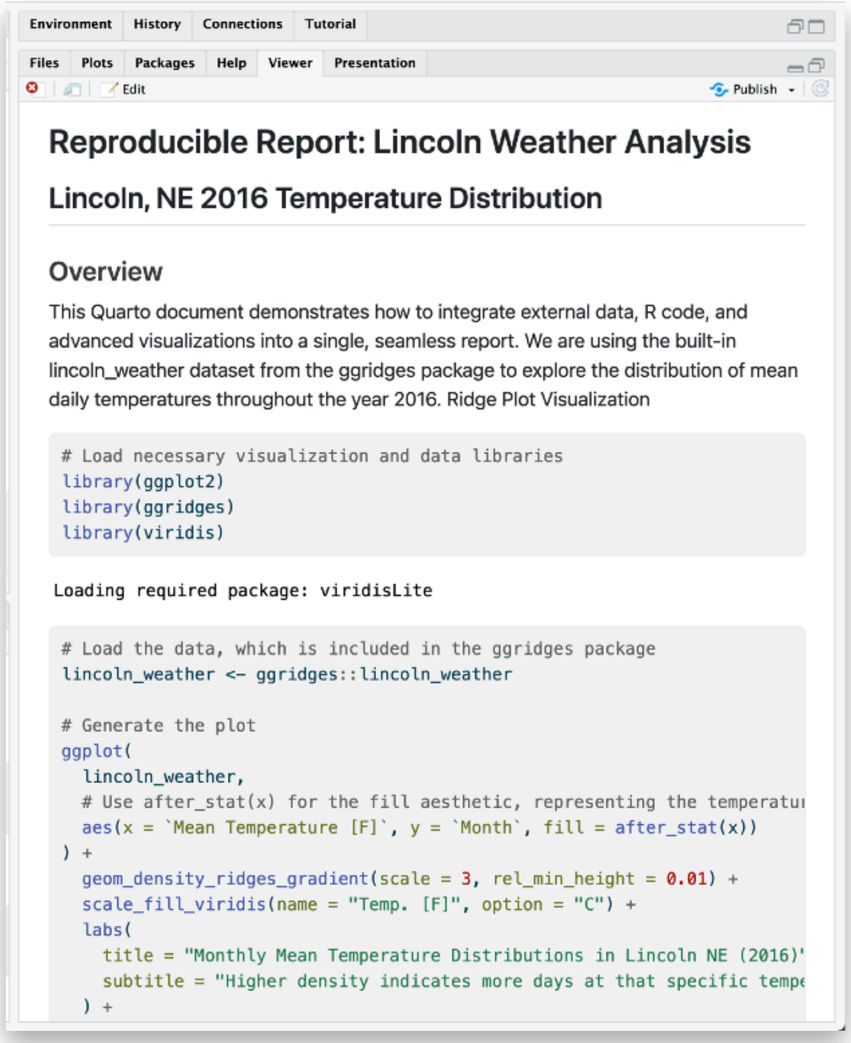
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Reproducible Report: Lincoln Weather Analysis
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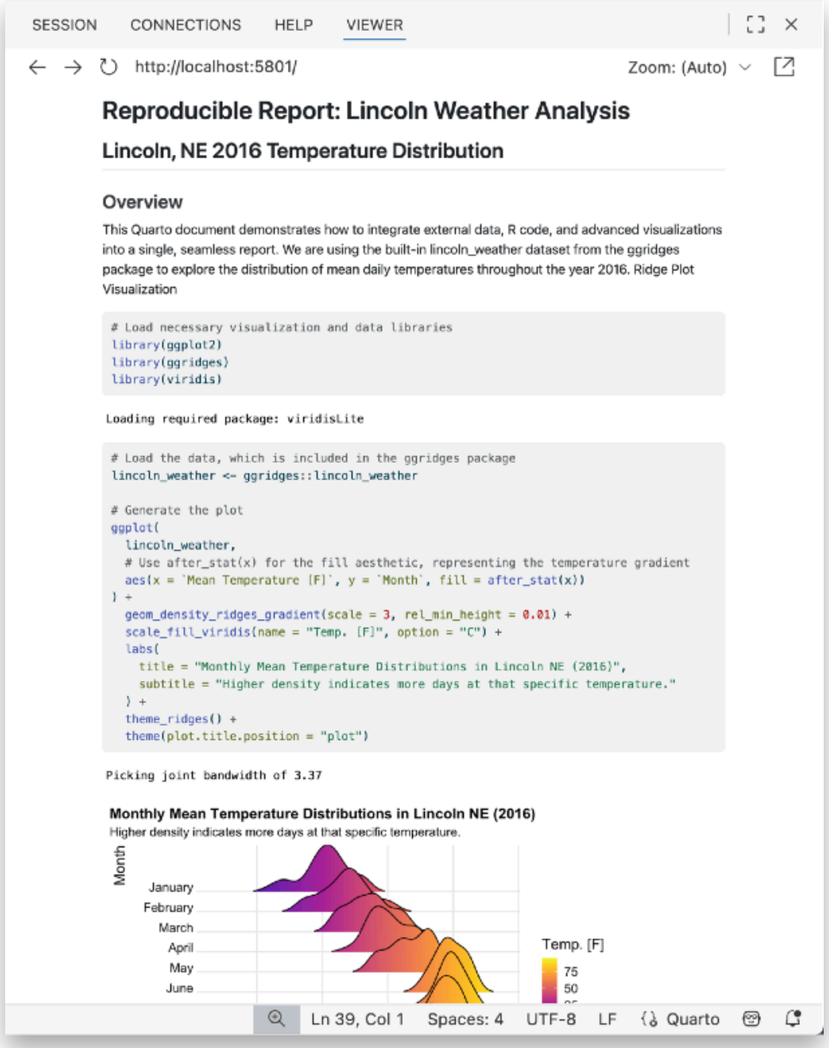
scale_fill_viridis(name = "Temp. [F]", option = "C") +
labs(
title = "Monthly Mean Temperature Distributions in Lincoln NE (2016)"
subtitle = "Higher density indicates more days at that specific tempe
) +


SESSION
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Zoom: (Auto)
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labs(
title = "Monthly Mean Temperature Distributions in Lincoln NE (2016)",
subtitle = "Higher density indicates more days at that specific temperature."
) +
theme_ridges() +
theme(plot.title.position = "plot")
Picking joint bandwidth of 3.37
Monthly Mean Temperature Distributions in Lincoln NE (2016)
Higher density indicates more days at that specific temperature.
Month
January
February
March
April
May
June
Temp. [F]
75
50
Ln 39, Col 1
Spaces: 4
UTF-8
LF
Quarto