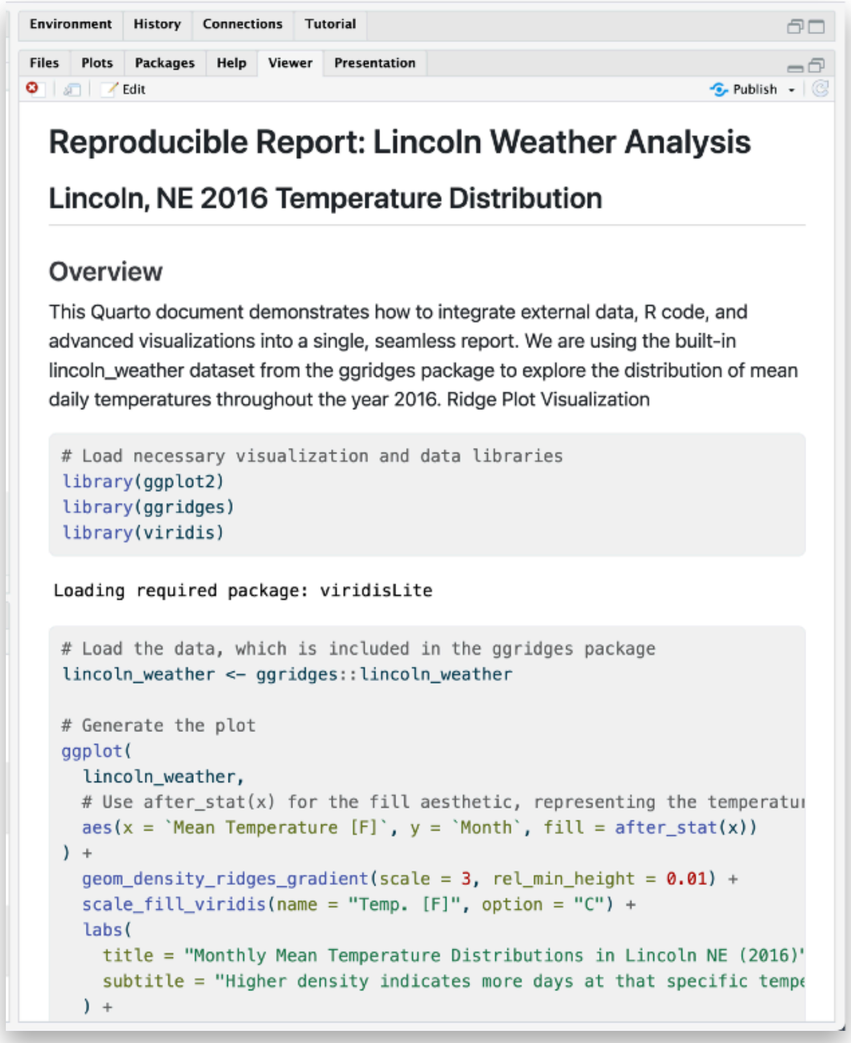
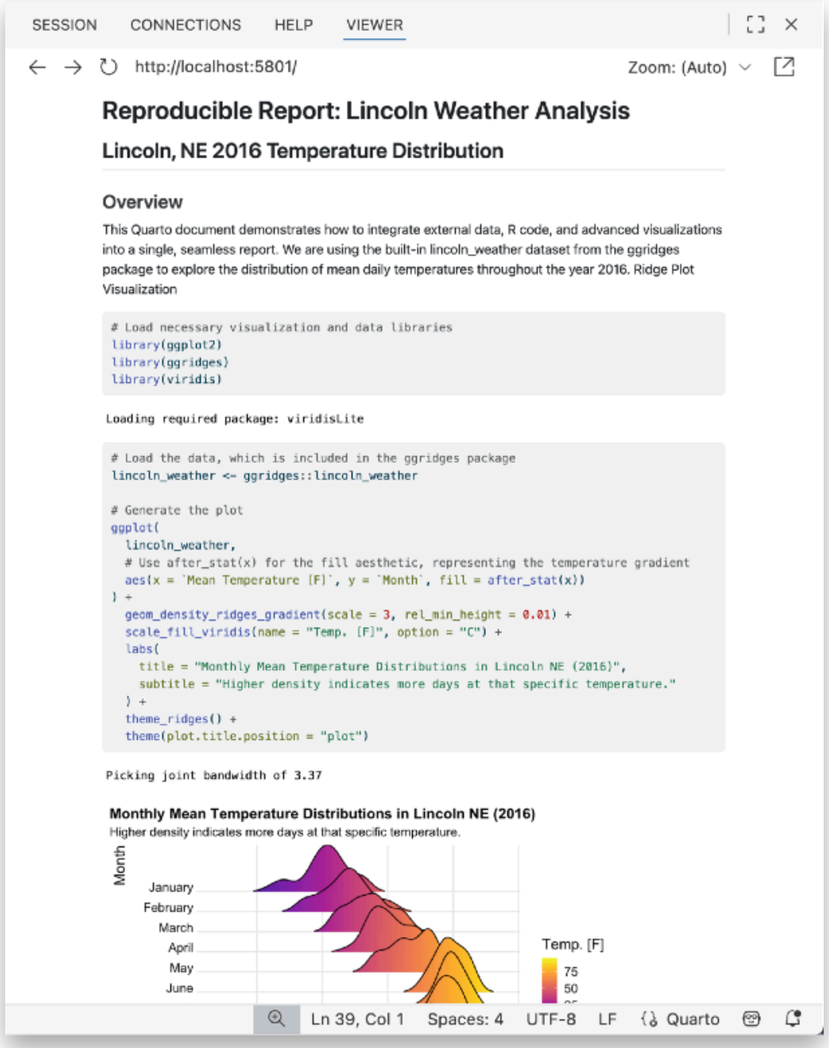
quarto®


Environment
History
Connections
Tutorial
Files
Plots
Packages
Help
Viewer
Presentation
Edit
Publish
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
# Load necessary visualization and data libraries
library(ggplot2)
library(ggridges)
library(viridis)
Loading required package: viridisLite
# 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 temperatur
aes(x = `Mean Temperature [F]`, y = `Month`, fill = after_stat(x))
) +
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 tempe
) +


SESSION
CONNECTIONS
HELP
VIEWER
http://localhost:5801/
Zoom: (Auto)
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Lincoln, NE 2016 Temperature Distribution
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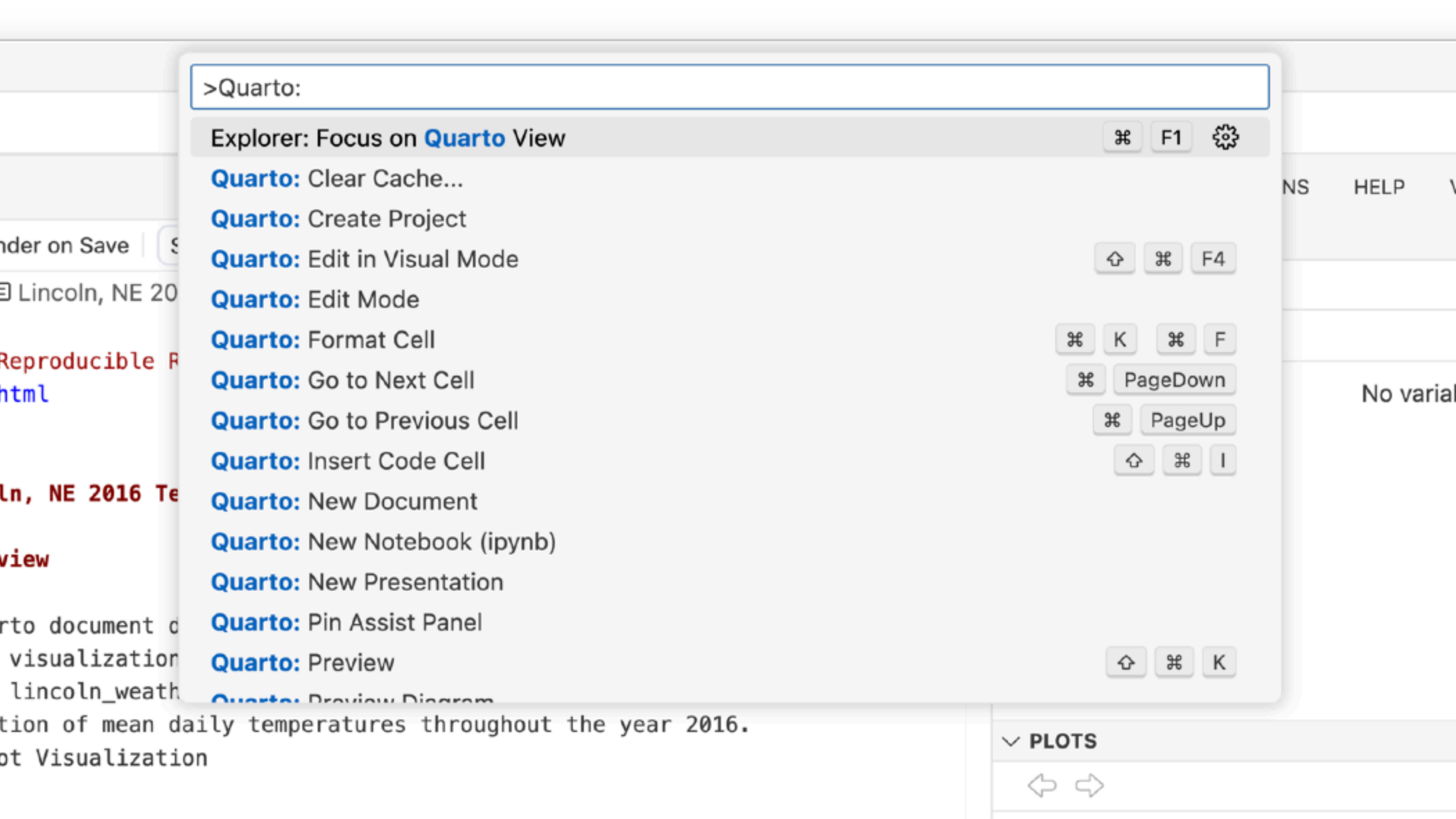
aes(x = `Mean Temperature [F]`, y = `Month`, fill = after_stat(x))
) +
geom_density_ridges_gradient(scale = 3, rel_min_height = 0.01) +
scale_fill_viridis(name = "Temp. [F]", option = "C") +
labs(
title = "Monthly Mean Temperature Distributions in Lincoln NE (2016)",
subtitle = "Higher density indicates more days at that specific temperature."
) +
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


>Quarto:
Explorer: Focus on Quarto View
⌘ F1
Quarto: Clear Cache...
Quarto: Create Project
Quarto: Edit in Visual Mode
⇧ ⌘ F4
Quarto: Edit Mode
Quarto: Format Cell
⌘ K ⌘ F
Quarto: Go to Next Cell
⌘ PageDown
Quarto: Go to Previous Cell
⌘ PageUp
Quarto: Insert Code Cell
⇧ ⌘ I
Quarto: New Document
Quarto: New Notebook (ipynb)
Quarto: New Presentation
Quarto: Pin Assist Panel
Quarto: Preview
⇧ ⌘ K
NS
HELP
No varial
PLOTS
tion of mean daily temperatures throughout the year 2016.
ot Visualization