

6.3.3 Plot Latitude vs. Cloudiness

You have a few more plots to create, and you know that it's time to stay hyperfocused. Whenever you start reusing code, it gets a bit easier to make a mistake. These charts will be on a public website for all to see, so the stakes are high.

Let's refactor the code for our scatter plots by changing the y-axis variable to "cloudiness," the title to "Cloudiness (%)," and the y-axis label to "Cloudiness (%)."

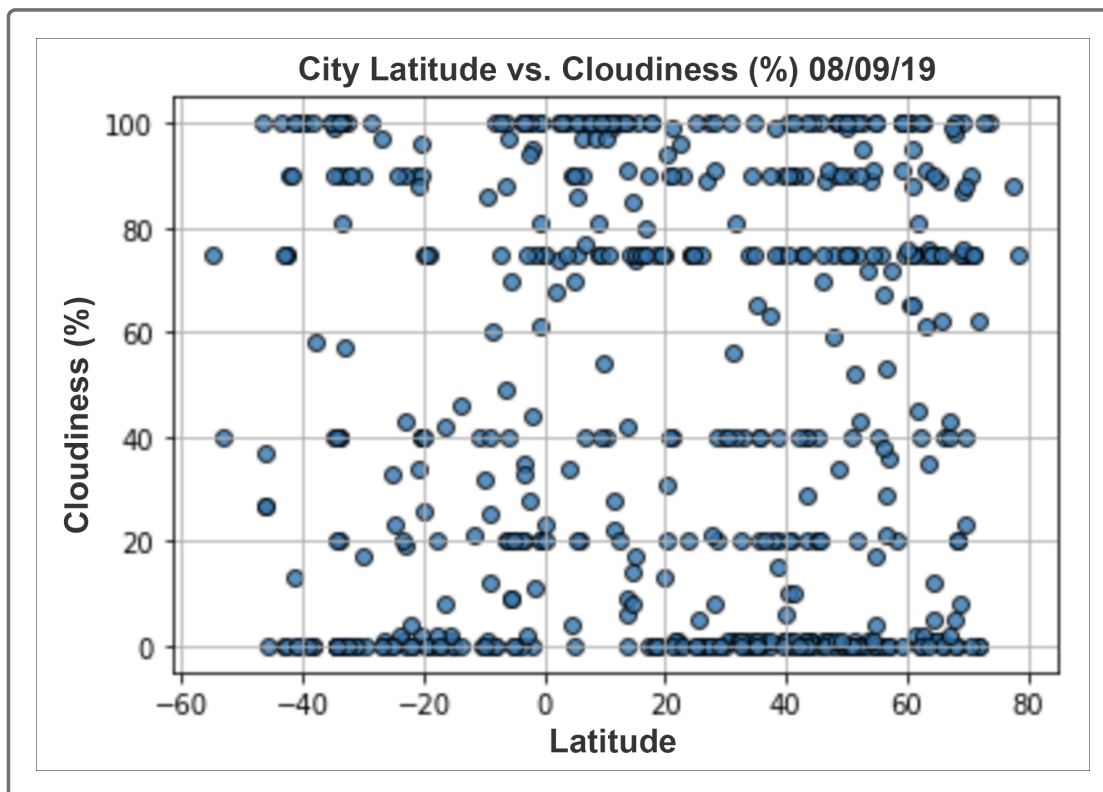
In a new cell, add the following code and run the cell.

```
# Build the scatter plots for latitude vs. cloudiness.
plt.scatter(lats,
            cloudiness,
            edgecolor="black", linewidths=1, marker="o",
            alpha=0.8, label="Cities")

# Incorporate the other graph properties.
plt.title(f"City Latitude vs. Cloudiness (%)" + time.strftime("%x"))
plt.ylabel("Cloudiness (%)")
plt.xlabel("Latitude")
```

```
plt.grid(True)
# Save the figure.
plt.savefig("weather_data/Fig3.png")
# Show plot.
plt.show()
```

Our scatter plot will look like the following.



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