

Eli — PS 7 — 2025-02-11

EIWL3 Sections 18 and 19

I had repeated issues with timeouts when downloading GeoGraphics. Because of that, I did not re-execute your PS7 notebooks like I usually do (to check for errors upon re-execution). Instead, I just PDF'd them the way that you gave them to me.

Chap 18

```
GeoDistance[New York City CITY ..., ✓, London CITY ..., ✓]
```

Out[]=

3453.71 mi

```
GeoDistance[New York City CITY ..., ✓, London CITY ..., ✓]/
```

```
GeoDistance[New York City CITY ..., ✓, San Francisco CITY ..., ✓]
```

Out[]=

1.35109

```
UnitConvert[GeoDistance[Sydney CITY ..., ✓, Moscow CITY ..., ✓], km ..., ✓]
```

Out[]=

14 387. km

```
GeoGraphics[United States COUNTRY ..., ✓]
```

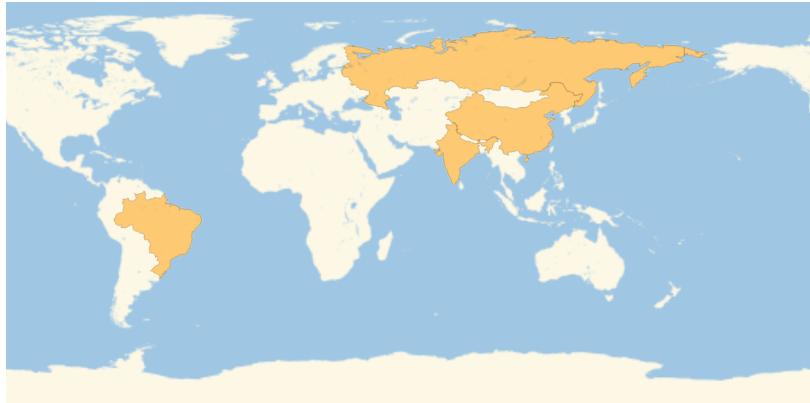
Out[]=



```
GeoListPlot[
```

```
{Brazil COUNTRY ..., ✓, Russia COUNTRY ✓, India COUNTRY ..., ✓, China COUNTRY ..., ✓}]
```

Out[•]=



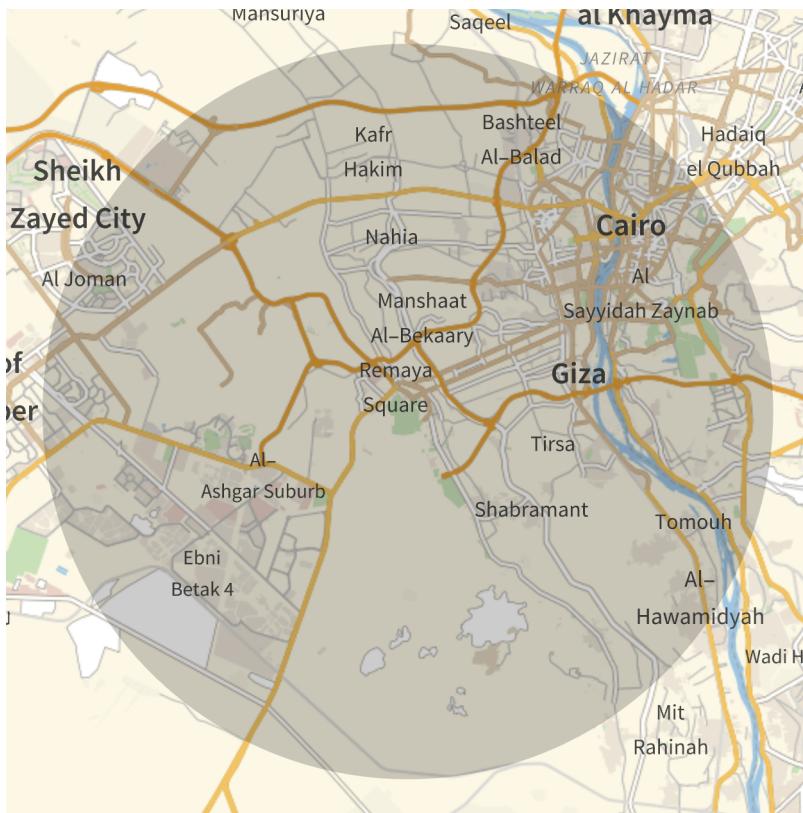
```
GeoGraphics[GeoPath[{New York City CITY, Beijing CITY} ..., ✓]]]
```

Out[•]=



GeoGraphics[GeoDisk[Great Pyramid of Giza BUILDING ..., ..., 10 mi ..., ...]]]

Out[*]=



GeoGraphics[GeoDisk[New York City CITY ..., ...,
GeoDistance[..., {New York City CITY, San Francisco CITY} ..., ...]]]]



`GeoImage[GeoDisk["The Pentagon BUILDING", ..., checked], ..., 0.4 mi, checked]]`

`Out[*]=`



`GeoNearest["Country", GeoPosition["NorthPole"], ..., checked, 5]`

`Out[*]=`

{Greenland, Canada, Russia, Svalbard, United States}

`Table[GeoNearest["Country", GeoPosition[{45, 0}], 3][[n]]["Flag"], {n, 1, 3}]`
(*how to get the flag of them not individually?*)

`Out[*]=`



```
GeoListPlot[GeoNearest["Volcano", Rome CITY ..., 25]]
```

Out[•]=



```
New York City CITY ..., ["Position"] [1, 1] - Los Angeles CITY ..., ["Position"] [1, 1]
```

Out[•]=

6.64488

Chapter 19

```
Length[DayRange[Mon 1 Jan 1900 ..., Now ...], ]
```

Out[•]=

45 698

```
DayName[Sat 1 Jan 2000 ..., ]
```

Out[•]=

Saturday

```
DateObject[Now ..., - 100 000 days ]
```

Out[•]=

April 29, 1751 7:38 am GMT-6

LocalTime [**Delhi CITY** **...** **✓**]

Out[]=

February 11, 2025 7:08 pm GMT+5.5

Sunset [**Here** **...** **✓**, **Now** **...** **✓**] - **Sunrise** [**Here** **...** **✓**, **Now** **...** **✓**]

Out[]=

10.12 h

MoonPhase [**Now** **...** **✓**, "Icon"]

Out[]=

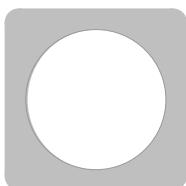


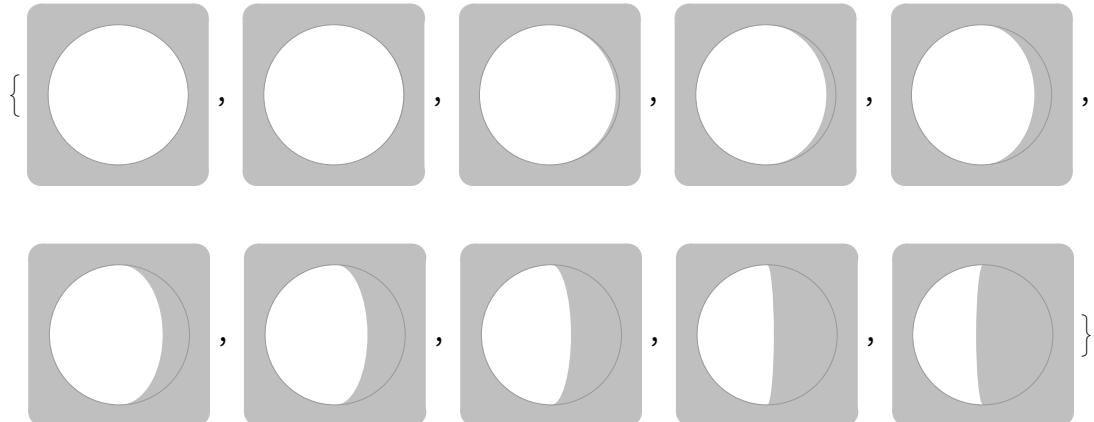
Table [**MoonPhase** [**Today** **...** **✓** + n **days** **...** **✓**], {n, 1, 10}]

Out[]=

{ 0.998115, 0.99507, 0.972393, 0.931991,
0.876155, 0.807337, 0.727997, 0.640555, 0.547426, 0.451159 }

Table [**MoonPhase** [**Today** **...** **✓** + n **days** **...** **✓** , "Icon"], {n, 1, 10}]

Out[]=



Sunrise [**New York City CITY** **...** **✓**, **Today** **...** **✓**] -

Sunrise [**London CITY** **...** **✓**, **Today** **...** **✓**]

Out[]=

4.54772 h

```
N[Length[DayRange[
  American astronauts land on the moon HISTORICAL EVENT ... [✓],
  {"Date"}, Today ... [✓]]]]/365]
```

Out[•]=

55.6055

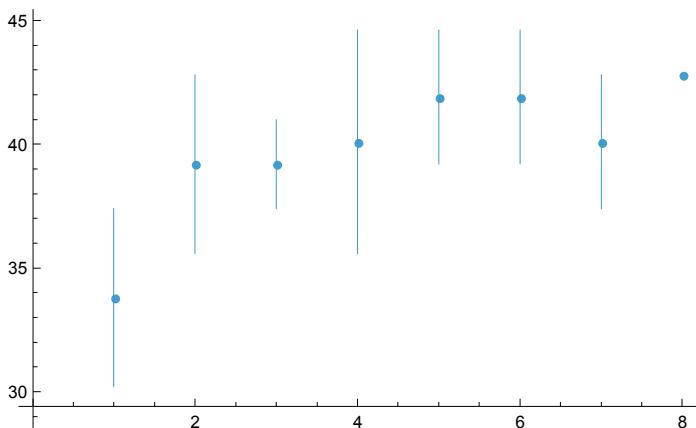
```
AirTemperatureData[Eiffel Tower BUILDING ... [✓], {February 10, 2025 12:00 pm GMT-6} [✓]]
```

Out[•]=

42.8 °F

```
ListPlot[AirTemperatureData[Eiffel Tower BUILDING ... [✓],
  DayRange[{DatePlus[Today, -1 wk]} [✓], {Today} ... [✓]]]]
```

Out[•]=



```
AirTemperatureData[New York City CITY ... [✓], Now ... [✓]] -
```

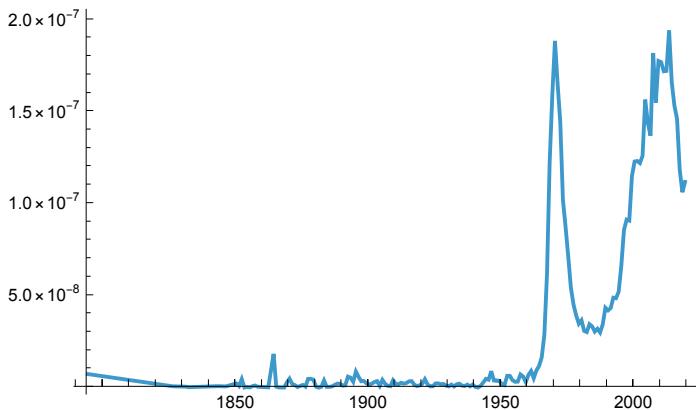
```
AirTemperatureData[Los Angeles CITY ... [✓], Now ... [✓]]
```

Out[•]=

-20. ° F

```
ListLinePlot[WordFrequencyData["groovy", "TimeSeries"]]
```

Out[•]=



United Kingdom COUNTRY   [Dated["Population", 2000]] -

United Kingdom COUNTRY   [Dated["Population", 1900]]

Out[]=

20 759 628 people