


À propos

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Quarto

 Ce site est fait avec *Quarto*

<https://quarto.org/docs/websites>.

Exemples de code python (jupyter)

 L'exemple du site Quarto

For a demonstration of a line plot on a polar axis, see Figure [1](#).

```

import numpy as np
import matplotlib.pyplot as plt

r = np.arange(0, 2, 0.01)
theta = 2 * np.pi * r
fig, ax = plt.subplots(
    subplot_kw = {'projection': 'polar'}
)
ax.plot(theta, r)
ax.set_rticks([0.5, 1, 1.5, 2])
ax.grid(True)
plt.show()

```

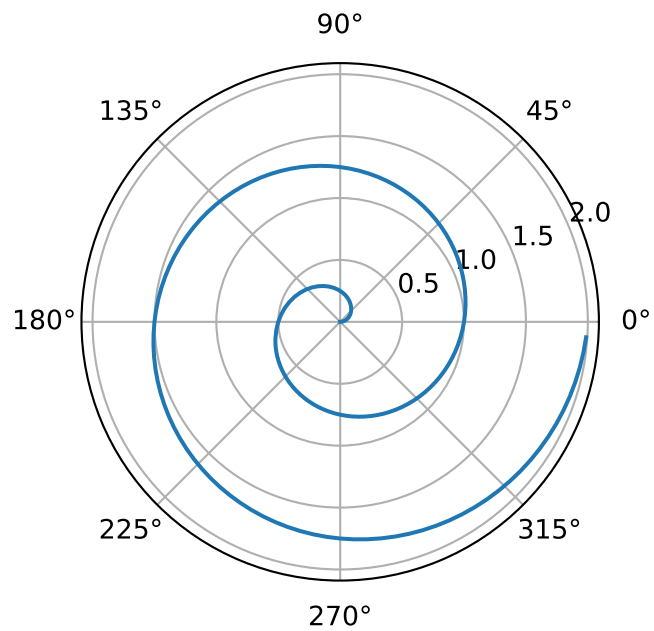


Figure 1: A line plot on a polar axis

Exemple de code OJS (observable)

💡 Exemple de l'utilisation de la bibliothèque `bertin.js`

Manhamady OUEDRAOGO (Burkina Faso) & Nicolas LAMBERT (France) https://ee-cist.github.io/CAR2_cartodyn/TP2/docs/index.html

```
//| panel: sidebar
viewof year = Inputs.range(
  [1990, 2019],
  {value: 2019, step: 1, label: "Année"}
)
viewof k = Inputs.range(
  [20, 100],
  {value: 50, step: 1, label: "Rayon max"}
)
meta = FileAttachment("data/worldbank_meta.csv").csv()
viewof indicator = Inputs.select(
  new Map(meta.map((d) => [d.indicator, d.shortcode])),
  { label: "Indicateur" }
)
projections = ["Patterson", "NaturalEarth1", "Bertin1953", "InterruptedSinusoidal", "Armado"]
viewof proj = Inputs.select(projections, {label: "Projection", width: 350})
viewof color = Inputs.color({label: "couleur", value: "#4682b4"})
viewof simpl = Inputs.range( [0.01, 0.5], {value: 0.1, step: 0.01, label: "Simplification"} )
viewof x = Inputs.range( [-180, 180], {value: 0, step: 1, label: "Rotation (x)"} )
viewof y = Inputs.range( [-90, 90], {value: 0, step: 1, label: "Rotation (y)"} )
```

Carte

```
bertin.draw({
  params: {projection: proj + `.rotate([${x}, ${y}])`, clip: true },
  layers:[
    { type : "header", text: title},
    {type: "bubble", geojson: data, values: indicator,
    fill: color, fixmax: varmax, k,
    tooltip: ["$name",d => d.properties[indicator]]},
    {geojson: world2, fill: "#CCC"},
    {type: "graticule"},
    {type: "outline"}
  ]})
```

Données

```
Inputs.table(statsyear, { columns: [
  "country",
  "capital_city",
  "region",
  indicator
]})
```

Top 10

```
viewof topnb = Inputs.range([5, 30], {label: "Nombre de pays représentés", step: 1})
top = statsyear.sort((a, b) => d3.descending(+a[indicator], +b[indicator]))
  .slice(0, topnb)
Plot.plot({
  marginLeft: 60,
  grid: true,
  x: {
    //type: "log",
    label: "Années →"
  },
  y: {
    label: "↑ Population",
    //type: "log",
  },
  marks: [
    Plot.barY(top, {
      x: "iso3c",
      y: indicator,
      sort: { x: "y", reverse: true },
      fill: color
    }),
    Plot.ruleY([0])
  ]
})
```

```
world = FileAttachment("data/world.json").json()
stats = FileAttachment("data/worldbank_data.csv").csv()
geo = require("geotoolbox@latest")
world2 = geo.simplify(world, {k: simpl})
bertin = require("bertin@latest")
statsyear = stats.filter(d => d.date == year)
data = bertin.merge(world2, "id", statsyear, "iso3c")
varmax = d3.max(stats.filter(d => d.date == 2019), d => +d[indicator])
title = meta.map((d) => [d.indicator, d.shortcode]).find((d) => d[1] == indicator)[0] + " : "
```

```

chart = {
  const k = width / 120;
  const r = d3.randomUniform(k, k * 4);
  const n = 4;
  const data = Array.from({length: 100}, (_, i) => ({r: r(), group: i && (i % n + 1)}));
  const height = width / 2;
  const color = d3.scaleOrdinal(d3.schemeTableau10);
  const context = DOM.context2d(width, height);
  const nodes = data.map(Object.create);

  const simulation = d3.forceSimulation(nodes)
    .alphaTarget(0.3)
    .velocityDecay(0.1)
    .force("x", d3.forceX().strength(0.01))
    .force("y", d3.forceY().strength(0.01))
    .force("collide", d3.forceCollide().radius(d => d.r + 1).iterations(3))
    .force("charge", d3.forceManyBody().strength((d, i) => i ? 0 : -width * 2 / 3))
    .on("tick", ticked);

  d3.select(context.canvas)
    .on("touchmove", event => event.preventDefault())
    .on("pointermove", pointermoved);

  invalidation.then(() => simulation.stop());

  function pointermoved(event) {
    const [x, y] = d3.pointer(event);
    nodes[0].fx = x - width / 2;
    nodes[0].fy = y - height / 2;
  }

  function ticked() {
    context.clearRect(0, 0, width, height);
    context.save();
    context.translate(width / 2, height / 2);
    for (let i = 1; i < nodes.length; ++i) {
      const d = nodes[i];
      context.beginPath();
      context.moveTo(d.x + d.r, d.y);
      context.arc(d.x, d.y, d.r, 0, 2 * Math.PI);
      context.fillStyle = color(d.group);
      context.fill();
    }
    context.restore();
  }

  return context.canvas;
}

```