

Little Spline

Little Spline, the free open source 2D spline tool

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"You won't find a more easy to use spline tool than Little Spline" - Yijia Chen, Cornell University

"Very easy to use, and super fun too." - Yazhi Fan, Cornell University

---Features---

- Simple csv file read

one line file read already implemented, no need to write your own

- Automatic continuous second derivative validation

allows you to quickly see if result is reasonable, no need to waste time plotting wrong data

- Versatility

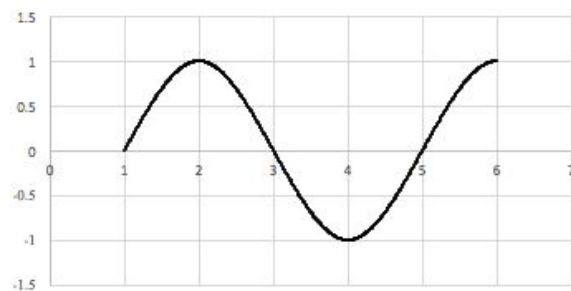
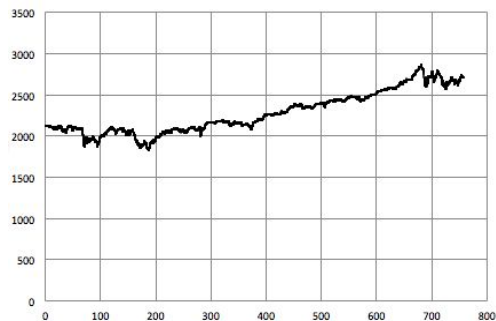
solves both monotonic and non-monotonic functions

enclosed shapes possible!

- Stability

able to solve large number of anchor points

---Example uses---



---Quick Tutorial---

1. construct x and y vectors either directly or by using `constructVariables("file path")`
2. initialize qx and qy to store result, size must be initialized as well, vector size will be the total number of points returned.
3. `cubicSpline(x, y, qx, qy)`
4. (optional) validate continuous second derivative `secondDerivativeTest(qx, qy)`

