

KNN-Visualization V0.1

Train and Test

Train Data Test Data

Result Path Run 3NN

Scatter Plot

Train Data

New Point

Sepal Length

Sepal Width

Petal Length

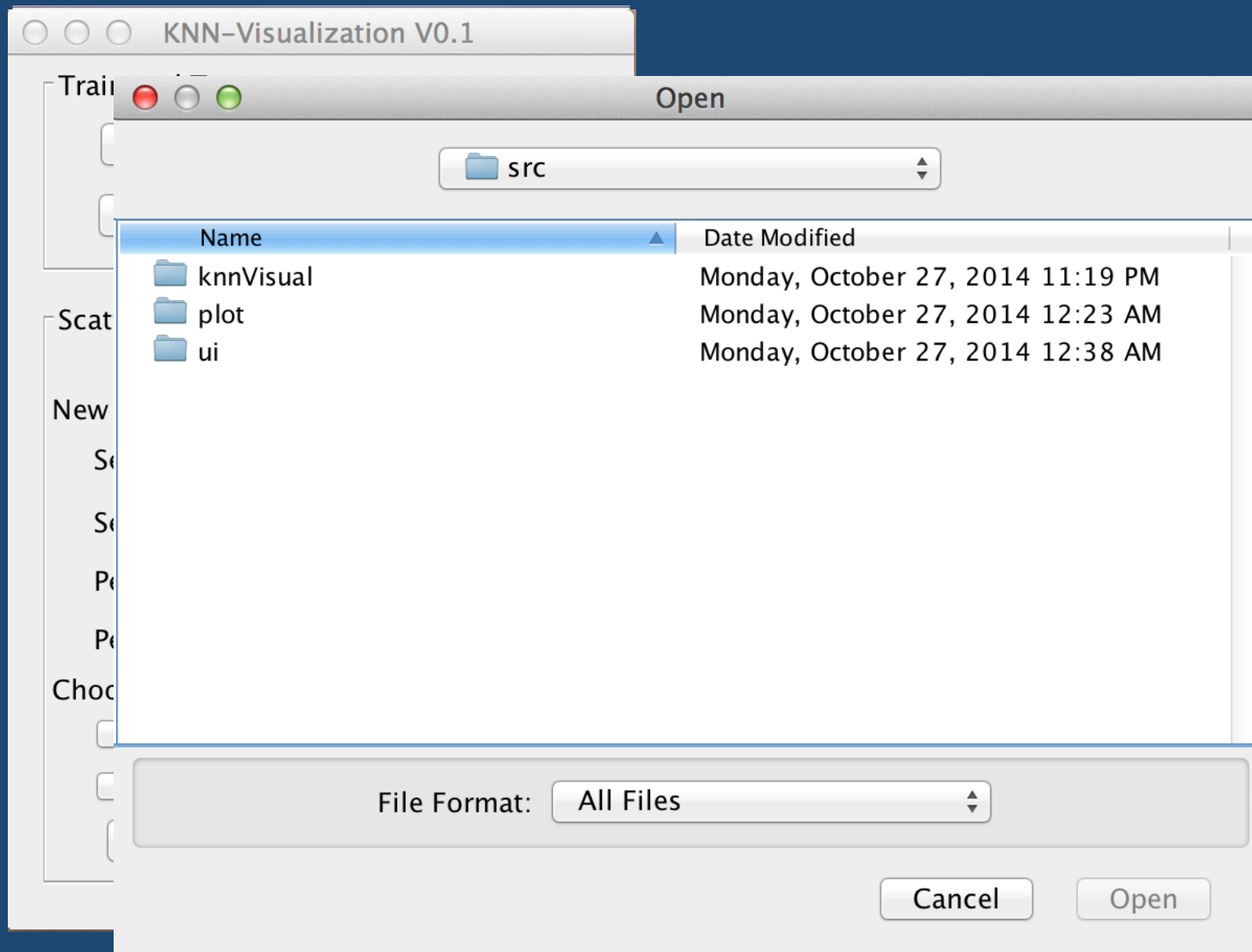
Petal Width

Choose Dimension

☐ Sepal Length ☐ Sepal Width

☐ Petal Length ☐ Petal Width

Plot 2D Plot 3D



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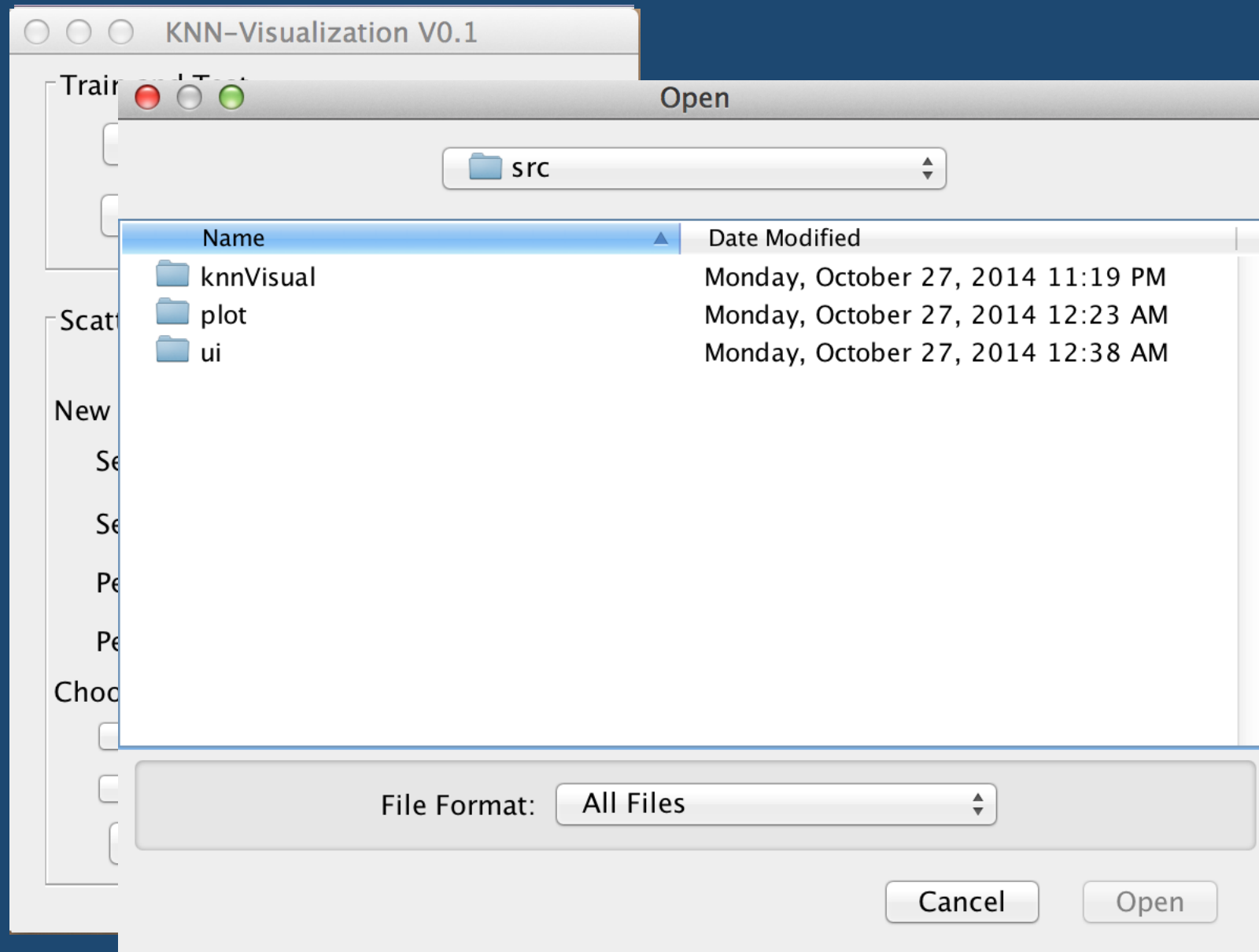
Choose Dimension

☐ Sepal Length ☐ Sepal Width

☐ Petal Length ☐ Petal Width

Plot 2D Plot 3D

	A	B	C	D	E	F
1	Fisher's Iris Data					
2	Sepal leng	Sepal width	Petal leng	Petal width	Species	
3	6.3	2.7	4.9	1.8	I. ?versicolor	
4	6.7	3.3	5.7	2.1	I. ?virginica	
5	7.2	3.2	6	1.8	I. ?virginica	
6	6.2	2.8	4.8	1.8	I. ?versicolor	
7	6.1	3	4.9	1.8	I. ?versicolor	
8	6.4	2.8	5.6	2.1	I. ?virginica	
9	7.2	3	5.8	1.6	I. ?virginica	
10	7.4	2.8	6.1	1.9	I. ?virginica	
11	7.9	3.8	6.4	2	I. ?virginica	
12	6.4	2.8	5.6	2.2	I. ?virginica	
13	6.3	2.8	5.1	1.5	I. ?versicolor	
14	6.1	2.6	5.6	1.4	I. ?virginica	
15	7.7	3	6.1	2.3	I. ?virginica	
16	6.3	3.4	5.6	2.4	I. ?virginica	
17	6.4	3.1	5.5	1.8	I. ?virginica	
18	6	3	4.8	1.8	I. ?versicolor	
19	6.9	3.1	5.4	2.1	I. ?virginica	
20	6.7	3.1	5.6	2.4	I. ?virginica	
21	6.9	3.1	5.1	2.3	I. ?virginica	
22	5.8	2.7	5.1	1.9	I. ?virginica	
23	6.8	3.2	5.9	2.3	I. ?virginica	
24	6.7	3.3	5.7	2.5	I. ?virginica	
25	6.7	3	5.2	2.3	I. ?virginica	
26	6.3	2.5	5	1.9	I. ?versicolor	
27	6.5	3	5.2	2	I. ?virginica	
28	6.2	3.4	5.4	2.3	I. ?virginica	
29	5.9	3	5.1	1.8	I. ?versicolor	
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Train Data

New Point

Sepal Length 1

Sepal Width 1

Petal Length 1

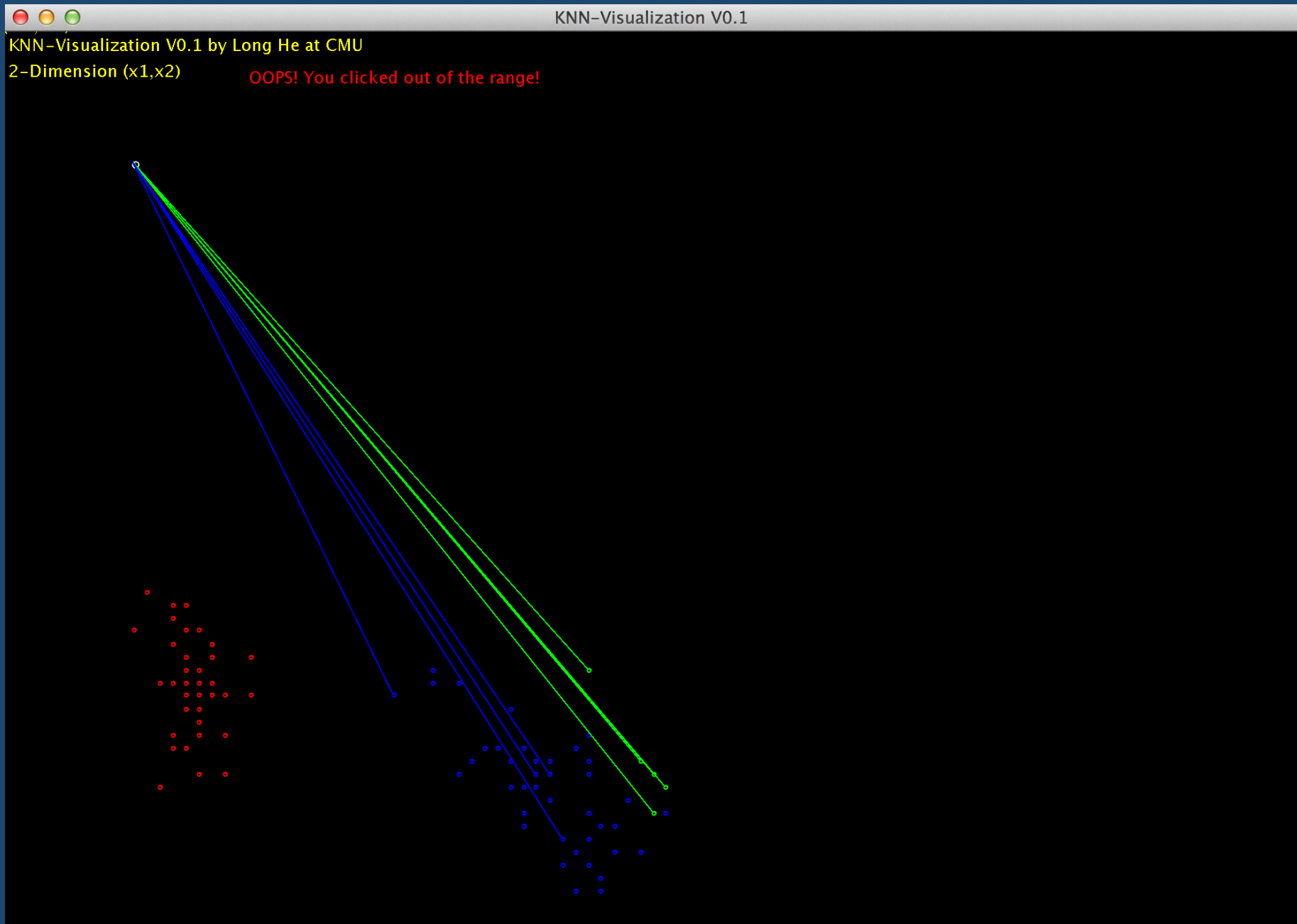
Petal Width 1

Choose Dimension

☒ Sepal Length ☐ Sepal Width

☒ Petal Length ☐ Petal Width

Plot 2D Plot 3D



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Train and Test

Train Data Test Data

Result Path Run 3NN

Scatter Plot

Train Data

New Point

Sepal Length 1

Sepal Width 1

Petal Length 1

Petal Width 1

Choose Dimension

☐ Sepal Length ☒ Sepal Width

☐ Petal Length ☒ Petal Width

Plot 2D Plot 3D



KNN-Visualization V0.1

KNN-Visualization V0.1 by Long He at CMU

2-Dimension (x1,x2)

