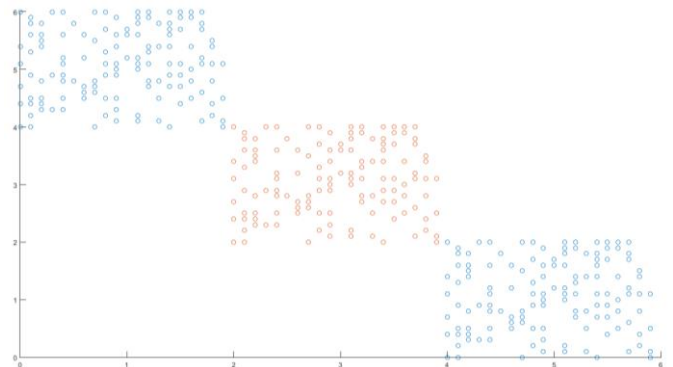
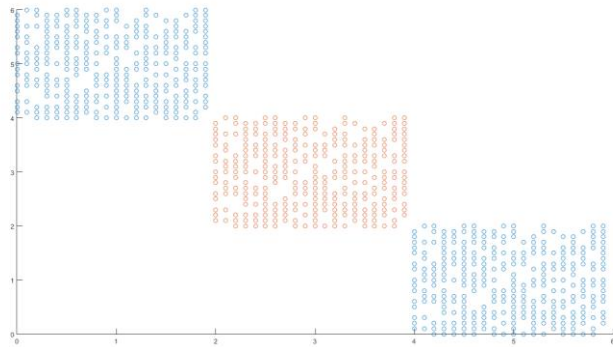


dados_svm



Kernel

```
Ker = 'rbf';
param = .2;
C = 1;
tol = 0.002;
max_passes = 1;
```

Treinamento

acertos: 882

erros: 0

acurácia: 1.00

confMatrix =

	1	-1
1	588	0
-1	0	294

Teste

acertos: 378

erros: 0

acuracia: 1.00

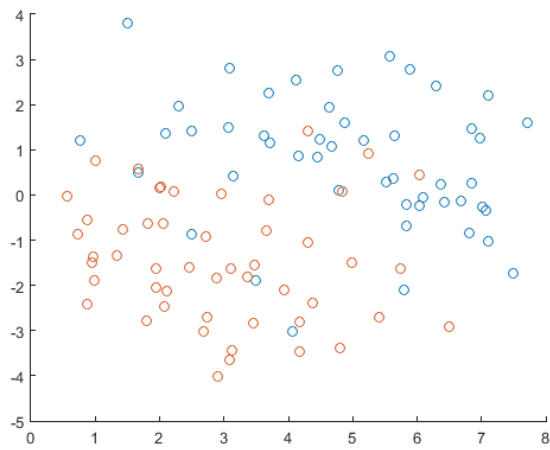
confMatrix =

	1	-1
1	252	0
-1	0	126

Comparação com matriz de kernel e sem

	Max Passes	Time Kernel	Time Training	Total Time
Sem Matrix de Kernel	1	-	2.2575	2.2575
	50	-	58.3528	58.3528
	100	-	97.4784	97.4784
Com Matrix de Kernel	1	19.1168	0.1722	19,289
	50	19.1168	6.4976	25,6144
	100	19.1168	14.1272	33,244

q1x



Kernel

```
Ker = 'rbf';  
param = .2;  
C = 10;  
tol = 0.002;  
max_passes = 3;
```

Treinamento

acertos: 99

erros: 0

acurácia: 1.00

confMatrix =

	1	-1
1	49	0
-1	0	50

	Prediction	
True Value	TP	FN
	FP	TN

Spambased

X – [4601x57]

Treinamento (70%) Xtr – [3220x57]

Teste (30%) Xts – [1381x57]

Teste 1

Kernel

```
Ker = 'rbf';  
param = .5;  
C = 30;  
tol = 0.002;  
max_passes = 50;
```

Treinamento

acertos: 3219

erros: 1

acurácia: 1.00

confMatrix =

	1	-1
1	1270	1
-1	0	1949

Teste

acertos: 971

erros: 410

acurácia: 0.70

confMatrix =

	1	-1
1	133	409
-1	1	838

Teste 2

Kernel

```
Ker = 'rbf';  
param = 3;  
C = 30;  
tol = 0.002;  
max_passes = 50;
```

Treinamento

acertos: 3210

erros: 10

acurácia: 1.00

confMatrix =

	1	-1
1	1270	2
-1	8	1940

Teste

acertos: 1125

erros: 256

acurácia: 0.81

confMatrix =

	1	-1
1	448	93
-1	163	677

Teste 3

Kernel

```
Ker = 'rbf';  
param = 10;  
C = 200;  
tol = 0.002;  
max_passes = 50;
```

Treinamento

acertos: 3168
erros: 52
acurácia: 0.98

confMatrix =

	1	-1
1	1251	32
-1	20	1917

Teste

acertos: 1203
erros: 178
acurácia: 0.87

confMatrix =

	1	-1
1	451	79
-1	99	752

Teste 4 (Dados normalizados)

Kernel

```
Ker = 'rbf';  
param = 10;  
C = 200;  
tol = 0.002;  
max_passes = 50;
```

Treinamento

acertos: 3069
erros: 151
acurácia: 0.95

confMatrix =

	1	-1
1	1178	101
-1	50	1891

Teste

acertos: 1269
erros: 112
acurácia: 0.92

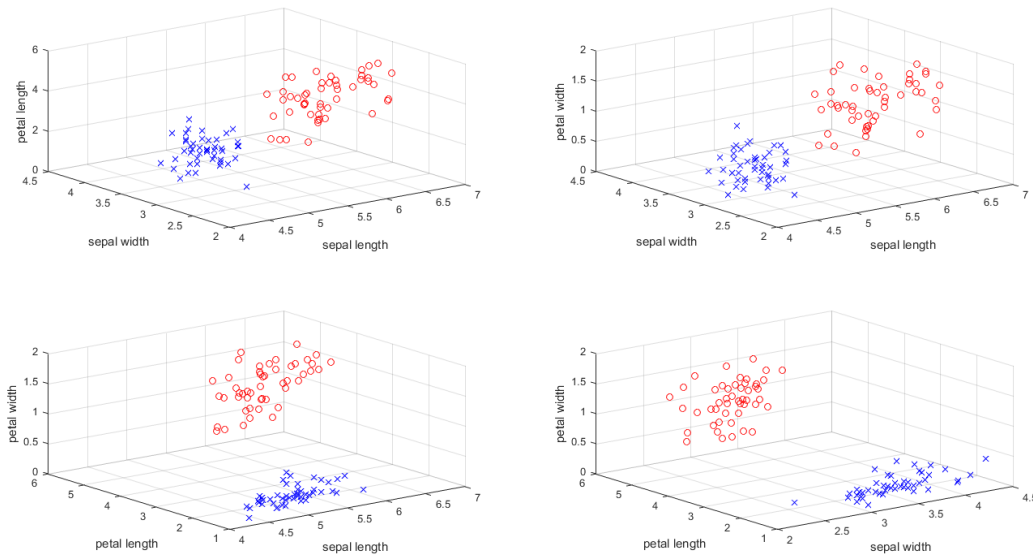
confMatrix =

	1	-1
1	461	73
-1	39	808

Comparação com matriz de kernel e sem

	Max Passes	Time Kernel	Time Training	Total Time
Sem Matrix de Kernel	1	-	149.7730	149.7730
	50	-	4775.0291	4775.0291
	100	-	-	-
Com Matrix de Kernel	1	300.9311	7.2422	308.1733
	50	300.9311	249.1821	550.1132
	100	300.9311	516.9371	817.8682

Iris – Biclass (Setosa e Versicolor)



Kernel

```
Ker = 'rbf';
param = 1;
C = 1;
tol = 0.002;
max_passes = 1;
```

Treinamento

acertos: 70
erros: 0
acurácia: 1.00

confMatrix =

	1	-1
1	36	0
-1	0	34

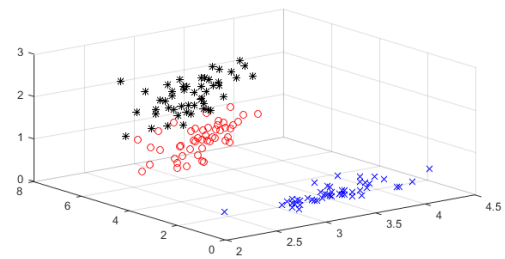
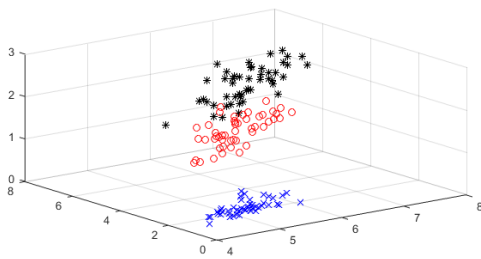
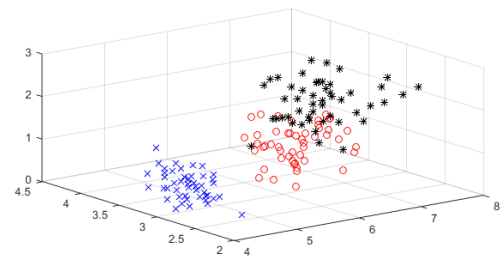
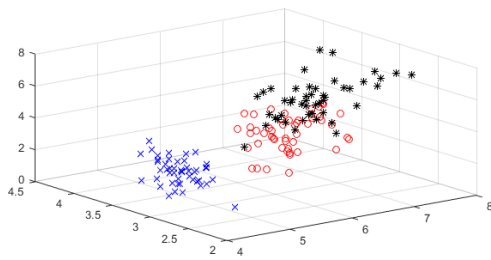
Teste

acertos: 30
erros: 0
acuracia: 1.00

confMatrix =

	1	-1
1	14	0
-1	0	16

Iris – Multiclass



Kernel

```
Ker = 'rbf';  
param = 1;  
C = 1;  
tol = 0.000020;  
max_passes = 50;
```

Treinamento

acertos: 104
erros: 1
acurácia: 0.99

confMatrix =

	1	2	3
1	33	0	0
2	0	34	1
3	0	0	37

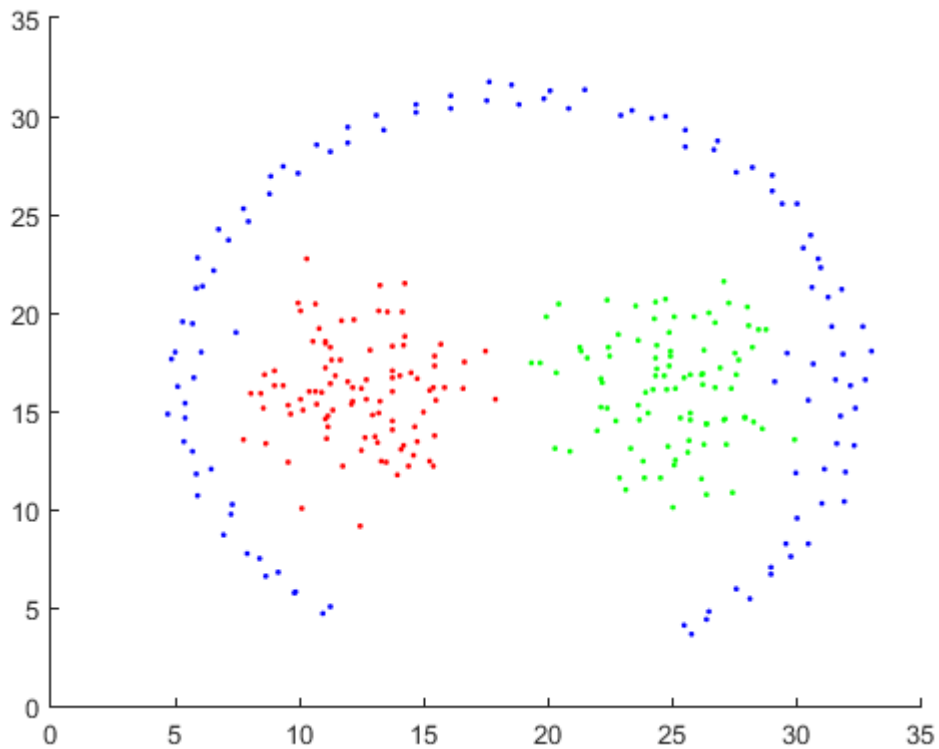
Teste

acertos: 43
erros: 2
acuracia: 0.96

confMatrix =

	1	2	3
1	17	0	0
2	0	13	2
3	0	0	13

Path-based



Kernel

```
Ker = 'rbf';  
param = .2;  
C = 1;  
tol = 0.000020;  
max_passes = 50;
```

Treinamento

acertos: 210
erros: 0
acurácia: 1.00

confMatrix =

	1	2	3
1	76	0	0
2	0	69	0
3	0	0	65

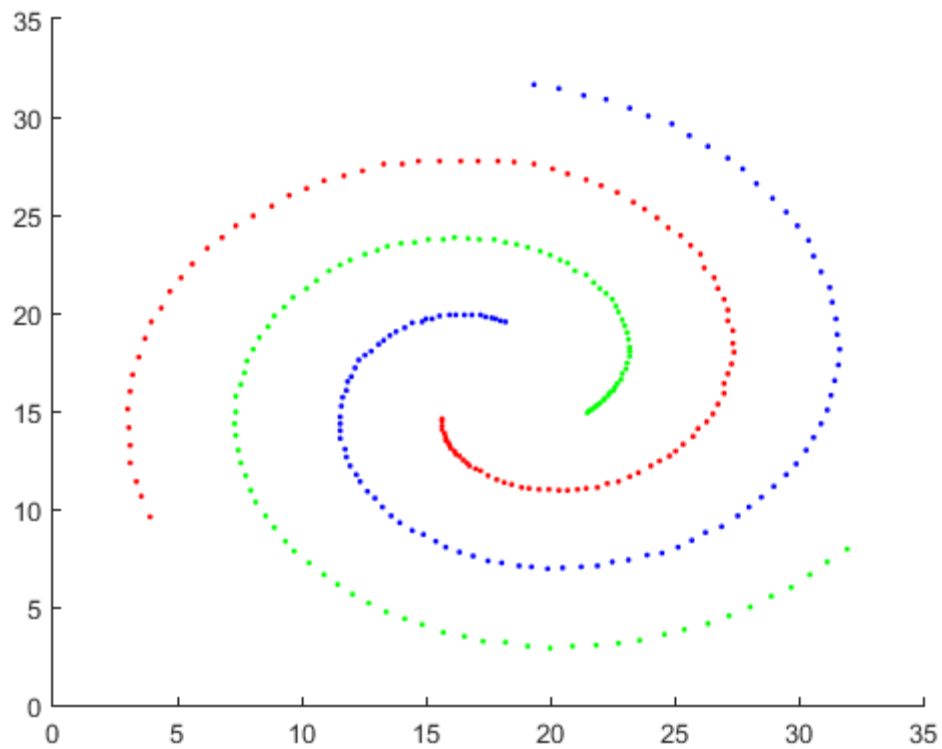
Teste

acertos: 89
erros: 1
acuracia: 0.99

confMatrix =

	1	2	3
1	34	0	0
2	0	27	1
3	0	0	28

Path-based2



Kernel

```
Ker = 'rbf';  
param = .5;  
C = 1;  
tol = 0.000020;  
max_passes = 50;
```

Treinamento

acertos: 219
erros: 0
acurácia: 1.00

confMatrix =

	1	2	3
1	75	0	0
2	0	74	0
3	0	0	70

Teste

acertos: 93
erros: 0
acuracia: 1.00

confMatrix =

	1	2	3
1	26	0	0
2	0	31	0
3	0	0	36

Wine Quality

Teste 1

Distribuição do Dataset:

Value	Count	Percent
3	10	0.63%
4	53	3.31%
5	681	42.59%
6	638	39.90%
7	199	12.45%
8	18	1.13%

Conj de Treinamento:

Value	Count	Percent
3	7	0.63%
4	33	2.95%
5	483	43.13%
6	457	40.80%
7	128	11.43%
8	12	1.07%

Conj de Teste:

Value	Count	Percent
3	3	0.63%
4	20	4.18%
5	198	41.34%
6	181	37.79%
7	71	14.82%
8	6	1.25%

Kernel

```
Ker = 'rbf';  
param = .2;  
C = 1;  
tol = 0.000020;  
max_passes = 50;
```

Treinamento

acertos: 1119
erros: 0
acuracia: 1.00

confMatrix =

	3	4	5	6	7	8
3	7	0	0	0	0	0
4	0	33	0	0	0	0
5	0	0	483	0	0	0
6	0	0	0	457	0	0
7	0	0	0	0	128	0
8	0	0	0	0	1	11

Teste

acertos: 263
erros: 216
acuracia: 0.55

confMatrix =

	3	4	5	6	7	8
3	0	0	3	0	0	0
4	0	0	20	0	0	0
5	0	0	197	1	0	0
6	0	0	136	45	0	0
7	0	0	50	0	21	0
8	0	0	6	0	0	0

Teste 2

Distribuição do Dataset:

Value	Count	Percent
3	10	0.63%
4	53	3.31%
5	681	42.59%
6	638	39.90%
7	199	12.45%
8	18	1.13%

Conj de Treinamento:

Value	Count	Percent
3	9	0.80%
4	38	3.39%
5	474	42.32%
6	445	39.73%
7	142	12.68%
8	12	1.07%

Conj de Teste:

Value	Count	Percent
3	1	0.21%
4	15	3.13%
5	207	43.22%
6	193	40.29%
7	57	11.90%
8	6	1.25%

Kernel

```
Ker = 'rbf';  
param = 1;  
C = 20;  
tol = 0.000020;  
max_passes = 50;
```

Treinamento

acertos: 1111

erros: 9

acuracia: 0.99

confMatrix =

	3	4	5	6	7	8
3	9	0	0	0	0	0
4	0	38	0	0	0	0
5	1	1	469	3	0	0
6	0	1	1	442	1	0
7	0	0	0	0	142	0
8	0	0	0	0	1	11

Teste

acertos: 308

erros: 171

acuracia: 0.64

confMatrix =

	3	4	5	6	7	8
3	0	0	0	1	0	0
4	1	2	6	6	0	0
5	0	4	153	46	4	0
6	0	2	52	124	15	0
7	0	0	10	19	28	0
8	0	0	3	1	1	1