Homework 08

Due: *01 November 2019*

DATA 1010

```
[2]  using Pkg; Pkg.add("DecisionTree")
     Pkg.add("MLDatasets")
```

```
  Updating registry at `~/.julia/registries/General`
  Updating git-repo `https://github.com/JuliaRegistries/General.git`
[1mFetching: [========================================>]  100.0 %.0 %
Resolving package versions...
  Updating `~/.julia/environments/v1.1/Project.toml`
 [no changes]
  Updating `~/.julia/environments/v1.1/Manifest.toml`
 [no changes]
 Resolving package versions...
  Updating `~/.julia/environments/v1.1/Project.toml`
 [no changes]
  Updating `~/.julia/environments/v1.1/Manifest.toml`
 [no changes]
```

```
[4]  using Random, LinearAlgebra, Statistics, Distributions, Plots,
     LaTeXStrings, LIBSVM, MLDatasets, DecisionTree, StatsBase
     include("hw08.jl");
```

Problem 1

Apply the Lagrange duality method we applied in class to the soft-margin SVM to the problem of minimizing the objective function $f(x, y) = x^2 + y^2$ subject to the constraint $x + y \geq 5$. Show that strong duality holds (that is, we get the same value for the objective function if we swap min and max).

```
[3]  lagrange_example()
```
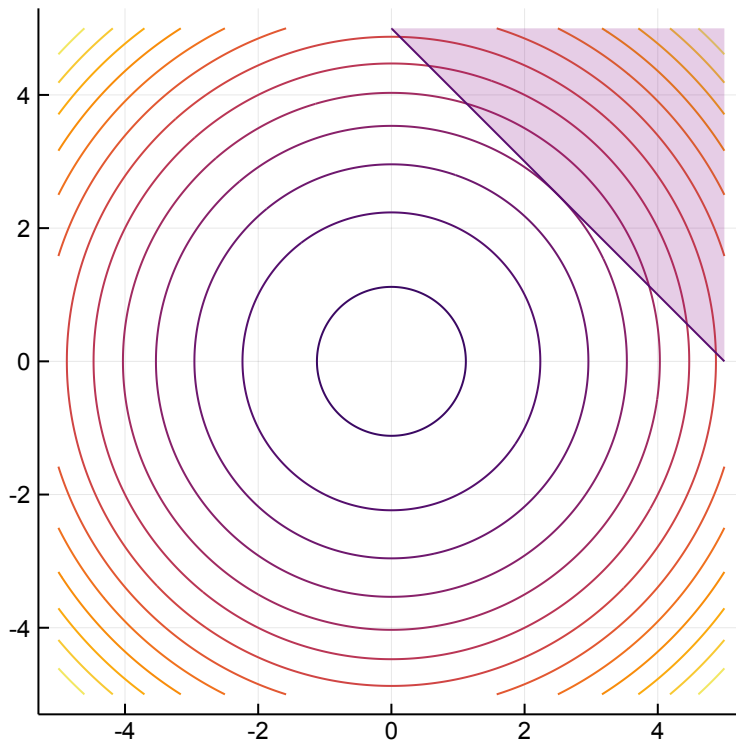
Solution to Problem 1

The objective function is given by $L(x, y, \gamma) = x^2 + y^2 + \lambda(-x - y + 5)$. The corresponding minmax problem is $\min_{x,y} \max_\lambda L(x, y, \gamma)$ and the dual is $\max_\lambda \min_{x,y} L(x, y, \gamma)$

Doing them separately:

$$\min_{x,y} \max_\lambda x^2 + y^2 + \lambda(-x - y + 5)$$

$$\text{the outer minimisation works when}$$

$$-x - y + 5 = 0$$

$$y = 5 - x$$

$$\min_{x,y} x^2 + (5 - x)^2$$

Since COCalc is EXTREMELY SLOW, not showing any work

$$y = \frac{5}{2}$$

$$x = \frac{5}{2}$$

$$\max_{\lambda} \min_{x,y} x^2 + y^2 + \lambda(-x - y + 5)$$

the inner minimisation gives

$$x = y$$

therefore the outer maximisation gives

$$k = \frac{5}{2} = x = y$$

Therefore we find the same solution to the objective function

---

Problem 2

Show that the minimax inequality sometimes holds strictly. In other words, find a function $(x, y) \mapsto f(x, y)$ such that $\min_x \max_y f(x, y) > \max_x \min_y f(x, y)$.

Hint: consider functions f on the unit square which are constant on the regions shown in blue and orange below.

Explain in loose terms why you would not expect this kind of behavior to emerge when f is a convex function on the unit square.

```
[5]    minimax_example()
```
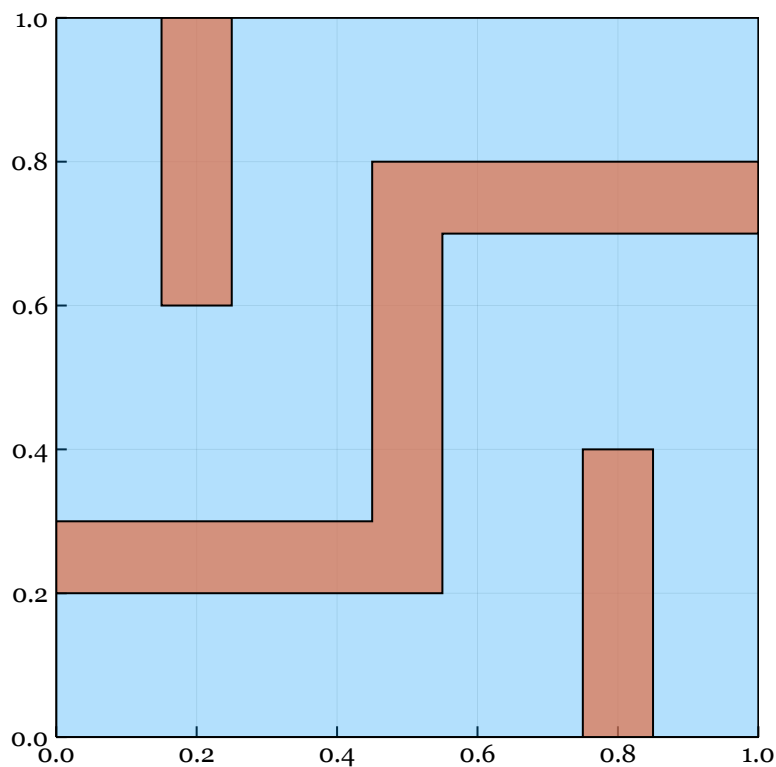
Solution to Problem 2

Consider a step function $f(x, y) = \begin{cases} +1 & 0 \leq x \leq \frac{1}{2} \\ -1 & 1 \geq x > \frac{1}{2} \end{cases}$ on an unit square with

vertices: $(0, 0), (0, 1), (1, 1), (1, 0)$. For this function, Looking at the image above, where the function has the value 0 for red and 1 for blue.

For $\min_x \max_y f(x, y)$: Say we choose some y between 0.4 and 0.6, then value of x would be in the red patch.

But for,

$\max_y \min_x f(x, y)$: we are in some x say between 0.4 and 0.6, then the value of y will be in the blue patch.

By just visual observation we can tell that $\min_x \max_y f(x, y) > \max_y \min_x f(x, y)$

However if it was a $y = 4\left(x - \frac{1}{2}\right)^2 = f(x, y)$ in the unit square, we have,

$\min_x \max_y f(x, y) = 1$

$\max_y \min_x f(x, y) = 1.$

Thus we can say that the strong duality holds for convex functions. It's because, since the function has only one minima, in any order, we would converge to the same solution (or the boundary if the minima is not within the bounds of our boundary.

Problem 3

Use the code below to simulate a dataset with two classes, one of which is Gaussian with mean zero and covariance I in $\mathbb{R}^p$, while the other is Gaussian with mean $\mu 1$ and covariance I (note: 1 represents a vector of ones in $\mathbb{R}^p$. Explore the following questions empirically.

(a) Is there a difference between the distribution of the number of support vectors in linearly separable instances and the number of support vectors in instances which are not separable? Note that you can make two histograms at once by supplying a vector to use for grouping to the `group` keyword argument.
(b) What should the direction of β be, given the way in which the data were generated? (In other words, the decision boundary for the Bayes classifier is actually a hyperplane; what unit vector β is perpendicular to that hyperplane?) Does β come out to be very close to this value?
(c) How does the number of support vectors vary with dimension? Choose a μ value which is large enough to ensure that the classes are linearly separated with high probability.
(d) How does the number of support vectors vary with C? Try a few μ values.

Solution to Problem 3

```
[99]  # the value 5/9 is chosen so that separated and non-separated
      examples are both well represented
      #SV_counts, sep_values = count_support_vectors(num_runs=100,
      sample_size=100, dim=20, μ=0)

      #for μ in 0:0.1:1
      #    SV_counts, sep_values = count_support_vectors(num_runs=100,
      sample_size=100, dim=20, μ=μ)
      #    histogram(SV_counts,bins=10,xlabel="No. of Support
      vectors",ylabel="count",normed=true,legend=false)
      #    savefig("histogram_mu_grouped=$(μ)_.svg")
      #    histogram(SV_counts,bins=10,group=sep_values,xlabel="No. of
      Support vectors",ylabel="count",normed=true,legend=true)
      #    savefig("histogram_mu_combined=$(μ)_.svg")
      #end

      SV_counts, sep_values = count_support_vectors(num_runs=100,
      sample_size=100, dim=20, μ=0.5)
      histogram(SV_counts,group = sep_values, bins=5,xlabel="No. of
      Support vectors",ylabel="count",normed=true,legend=true)
```
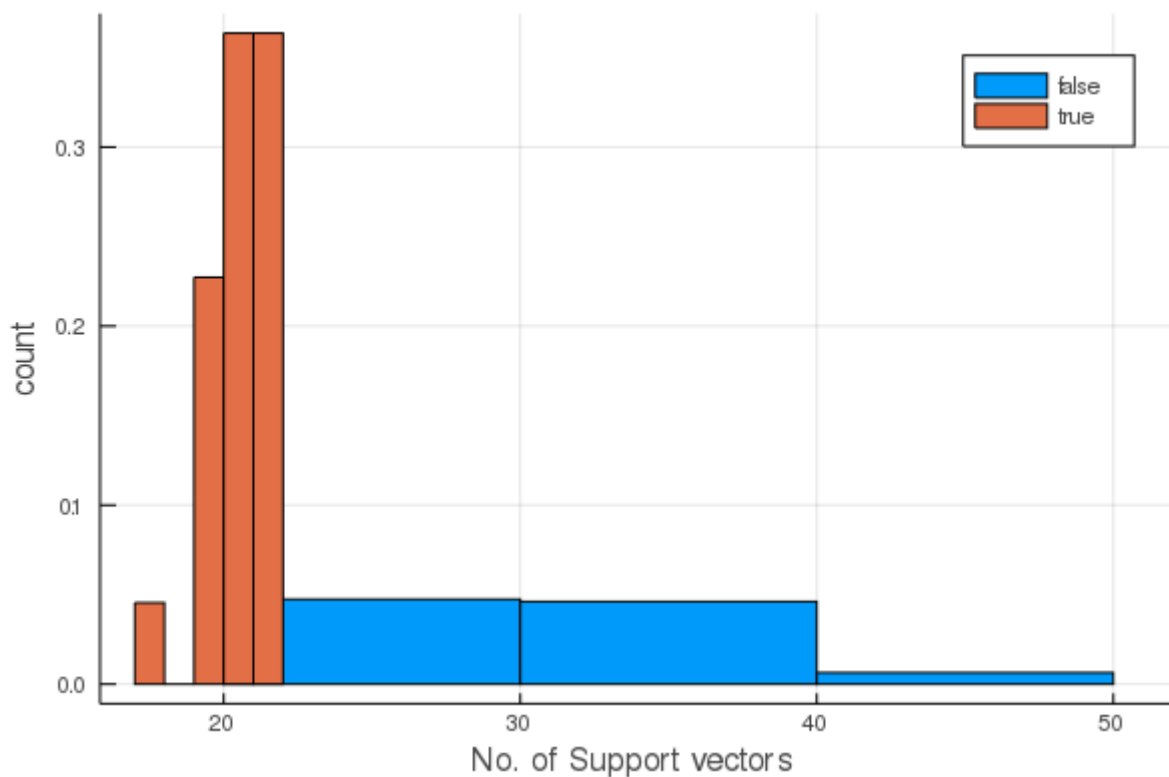

a. The distribution of Support Vectors (for the same μ) is roughly gaussian. However, the average no. of SV are less if it is linearly separable than the other alternative.

```
[100]   # (b)
        #coeff = []
        #µs = []

        #push!(µs,µ)
        X, y, model = simulate_and_train(sample_size=1000, dim=20, µ=1)
        β = -model.SVs.X * model.coefs
        β = β / norm(β)
        #push!(coeff, size(model.SVs.X,2))
        #push!(βs,β)

        #plot(µs,coeff,ylabel="No. of points on the boundary (SV)",
        xlabel="mu",legend=false,fmt = :png)
        #savefig("mu_SVdims.png")
```

```
20×1 Array{Float64,2}:
 0.17473355082237887
 0.23215724248810066
 0.15882055849257642
 0.2562882624727614
 0.1816778422532367
 0.4576759344097806
 0.17792189543809608
 0.12881074344461965
 0.11393747229953627
 0.31386626768887543
 0.26754785551117505
 0.33347437121322127
 0.2567140211622188
 0.14596914179879814
 0.05555618778581972
 0.12751367754019874
 0.07725579431285845
 0.11000565336941913
 0.3047579775088721
 0.148855042556429
```

```
[101]   project = Array([1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0; 0 1 0 0
        0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ]')
        #βs[5]·project
        β'*project
```

```
1×2 Array{Float64,2}:
 0.174734  0.232157
```

b. The direction of SV, move away from the origin, towards y = x. This corroborates the way the data is generated. One of the group shifts in the above mentioned direction, this pulling

the separating hyperplane with it. However, because it is random process, it is not exactly the same.

```
[7]    # c
       cv_count = []
       for d in 10:1:40
           SV_counts, sep_values = count_support_vectors(num_runs=100,
       sample_size=100, dim=d, μ=5)
           push!(cv_count,mean(SV_counts))
       end

       plot(cv_count,xlabel="no. of dimension",ylabel="no. of
       SV",legend=false)
       savefig("SV_dims_h208.svg")
```
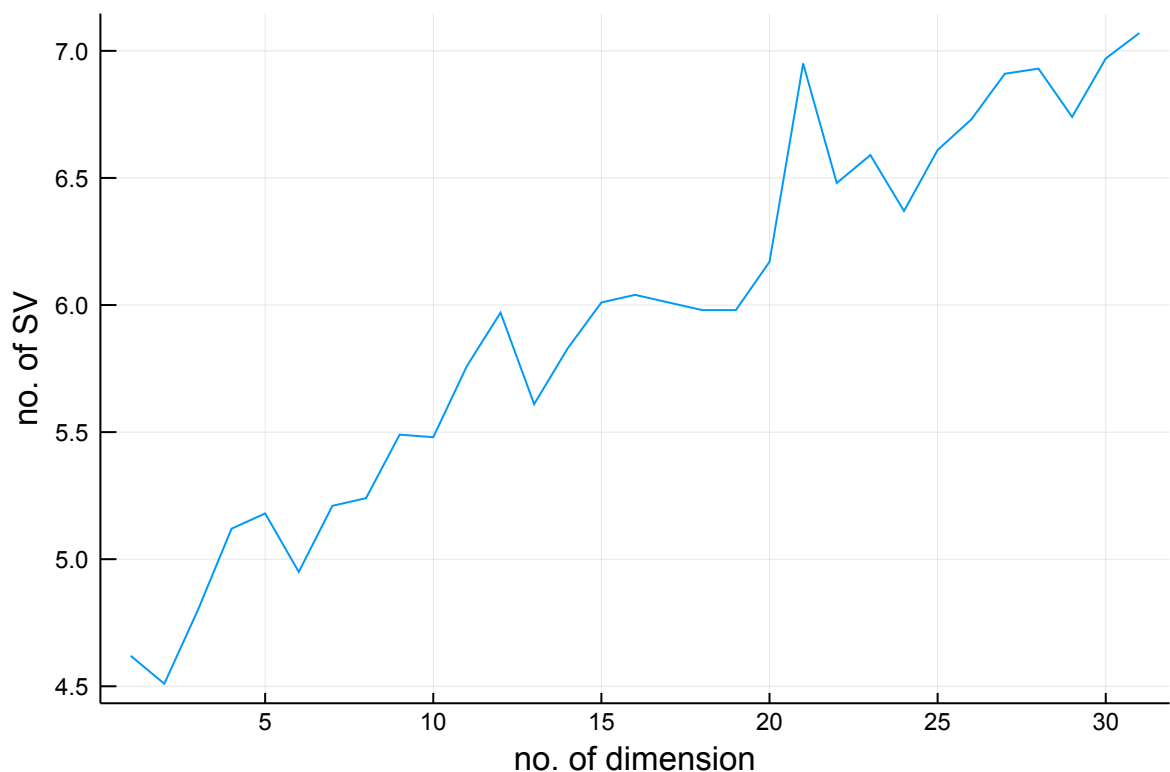


```
    c. We see that the no. of support vectors increase as we increase no.
```

```
[121]   # (d)
        Cs = 2.0 .^(-10:10)
        plot(-10:10,
            [mean(count_support_vectors(num_runs=100, sample_size=200,
        dim=20, μ=1, C=C)[1]) for C in Cs],
```

```
        label = "mu = 1", xlabel = "log2(C)", ylabel = "number of
    support vectors", fmt = :png,fontfamily = "Palatino",
        ylims = (0,200),legend=true)

    plot!(-10:10,
        [mean(count_support_vectors(num_runs=100, sample_size=200,
    dim=20, μ=5/9, C=C)[1]) for C in Cs],
        label = "mu = 5/9", xlabel = "log2(C)", ylabel = "number of
    support vectors", fmt = :png,fontfamily = "Palatino",
        ylims = (0,200),legend=true)

    plot!(-10:10,
        [mean(count_support_vectors(num_runs=100, sample_size=200,
    dim=20, μ=0.2, C=C)[1]) for C in Cs],
        label = "mu = 0", xlabel = "log2(C)", ylabel = "number of
    support vectors",fmt = :png, fontfamily = "Palatino",
        ylims = (0,200),legend = true)

    plot!(-10:10,
        [mean(count_support_vectors(num_runs=100, sample_size=200,
    dim=20, μ=2, C=C)[1]) for C in Cs],
        label = "mu = 2", xlabel = "log2(C)", ylabel = "number of
    support vectors", fmt = :png,fontfamily = "Palatino",
        ylims = (0,200),legend = true)

    savefig("plot_hw8.png")
```

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```
d. As we see, as cost increases. The no. of Support vector decreses.
```

Problem 4

Use LIBSVM to project the zeros and ones in the MNIST training set to the orthogonal complement of the vector β obtained by training a linear SVM on the original data. Are these new data linearly separable? What does your low-dimensional intuition suggest?

```
[ ]
```

```
[122]  svm_projections()
```
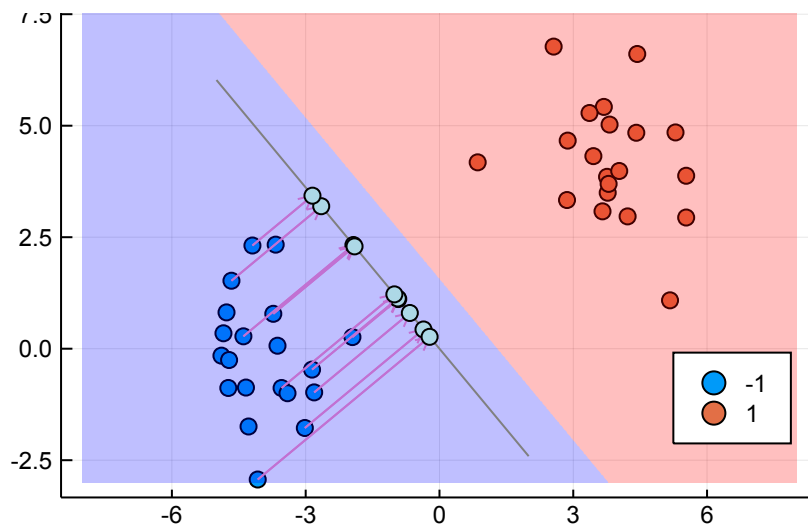
Solution to Problem 4

```
[8]    features, labels = load_MNIST_zeros_and_ones();
```

```
[9]    features
```

```
784×12665 Array{Float32,2}:
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  …  0.0  0.0  0.0  0.0  0.0  0.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  …  0.0  0.0  0.0  0.0  0.0  0.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
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0.0
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0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
```

```
 0.0
   ⋮                          ⋮                    ⋱                   ⋮
  0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0       0.0   0.0   0.0   0.0   0.0   0.0
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  0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0       0.0   0.0   0.0   0.0   0.0   0.0
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  0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0       0.0   0.0   0.0   0.0   0.0   0.0
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  0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0       0.0   0.0   0.0   0.0   0.0   0.0
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  0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0       0.0   0.0   0.0   0.0   0.0   0.0
 0.0
```

```julia
[10]   model = svmtrain(float(features), float(labels), kernel =
       LIBSVM.Kernel.Linear, cost=100.0)
       β = model.SVs.X * model.coefs
       βc = nullspace(Matrix(β'));
```

```julia
[11]   gr(fmt=:png)
       scatter(features' * β,  zeros(size(features,2)), group = labels,
       ylims=(-1,1))
       savefig("along_beta_hw8.png")
```

```
[12]    #βsum = sum(βc,dims=2)
```

```
[15]    scatter(features' * βc[:,1],  zeros(size(features,2)), group =
        labels, ylims=(-1,1))
        savefig("along_betac_hw8.png")
```
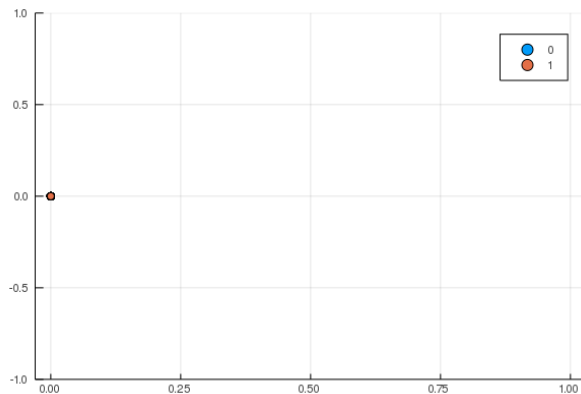

So since β spearates all the points, the orthogonal complement of β will squish all points into 1. This is now not linearly separable.

Problem 5

Use LIBSVM to train an SVM classifier on the Enron email data from Homework 07 (using the same scheme to encode the email messages as vectors). Try a linear classifier as well as one trained with radial basis functions, and select your value for C using cross-validation on a withheld subset of the training data. Test your classifier on one of the folders which was not used for training–which performs better?

Solution to Problem 5

```
[16]    using HTTP
        url = "http://www.aueb.gr/users/ion/data/enron-
        spam/preprocessed/"
        enron_files = ["enron1.tar.gz", "enron2.tar.gz", "enron3.tar.gz",
                       "enron4.tar.gz", "enron5.tar.gz", "enron6.tar.gz"]

        tmp_paths = [HTTP.download(url * file) for file in enron_files]
```

```
p = tmp_paths[1] # just use the first one initially; you can use
the other 5 once you have your model working
run(`tar -xvzf $p`); # unzip the downloaded files
```

┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron1.tar.gz
│   dest = /tmp/enron1.tar.gz
│   progress = 1.0
│   time_taken = 0.16 s
│   time_remaining = 0.0 s
│   average_speed = 1.080 KiB/s
│   downloaded = 178 bytes
│   remaining = 0 bytes
│   total = 178 bytes
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron1.tar.gz
│   dest = /tmp/enron1.tar.gz
│   progress = 0.0234
│   time_taken = 1.02 s
│   time_remaining = 42.83 s
│   average_speed = 40.141 KiB/s
│   downloaded = 41.104 KiB
│   remaining = 1.679 MiB
│   total = 1.719 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron1.tar.gz
│   dest = /tmp/enron1.tar.gz
│   progress = 0.0848
│   time_taken = 2.05 s
│   time_remaining = 22.12 s
│   average_speed = 72.837 KiB/s
│   downloaded = 149.315 KiB
│   remaining = 1.573 MiB
│   total = 1.719 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron1.tar.gz
│   dest = /tmp/enron1.tar.gz
│   progress = 0.1637
│   time_taken = 3.07 s
│   time_remaining = 15.69 s
│   average_speed = 93.802 KiB/s
│   downloaded = 288.253 KiB
│   remaining = 1.438 MiB
│   total = 1.719 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
```

```
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron1.tar.gz
│    dest = /tmp/enron1.tar.gz
│    progress = 0.2624
│    time_taken = 4.1 s
│    time_remaining = 11.51 s
│    average_speed = 112.775 KiB/s
│    downloaded = 461.925 KiB
│    remaining = 1.268 MiB
│    total = 1.719 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron1.tar.gz
│    dest = /tmp/enron1.tar.gz
│    progress = 0.3808
│    time_taken = 5.12 s
│    time_remaining = 8.33 s
│    average_speed = 130.924 KiB/s
│    downloaded = 670.331 KiB
│    remaining = 1.064 MiB
│    total = 1.719 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron1.tar.gz
│    dest = /tmp/enron1.tar.gz
│    progress = 0.528
│    time_taken = 6.14 s
│    time_remaining = 5.49 s
│    average_speed = 151.286 KiB/s
│    downloaded = 929.503 KiB
│    remaining = 830.822 KiB
│    total = 1.719 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron1.tar.gz
│    dest = /tmp/enron1.tar.gz
│    progress = 0.6791
│    time_taken = 7.17 s
│    time_remaining = 3.39 s
│    average_speed = 166.786 KiB/s
│    downloaded = 1.167 MiB
│    remaining = 564.971 KiB
│    total = 1.719 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron1.tar.gz
│    dest = /tmp/enron1.tar.gz
```

```
│    progress = 0.8953
│    time_taken = 8.19 s
│    time_remaining = 0.96 s
│    average_speed = 192.418 KiB/s
│    downloaded = 1.539 MiB
│    remaining = 184.229 KiB
│    total = 1.719 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron1.tar.gz
│    dest = /tmp/enron1.tar.gz
│    progress = 1.0
│    time_taken = 8.71 s
│    time_remaining = 0.0 s
│    average_speed = 202.197 KiB/s
│    downloaded = 1.719 MiB
│    remaining = 0 bytes
│    total = 1.719 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron2.tar.gz
│    dest = /tmp/enron2.tar.gz
│    progress = 1.0
│    time_taken = 0.0 s
│    time_remaining = 0.0 s
│    average_speed = ∞ B/s
│    downloaded = 178 bytes
│    remaining = 0 bytes
│    total = 178 bytes
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron2.tar.gz
│    dest = /tmp/enron2.tar.gz
│    progress = 0.0418
│    time_taken = 1.02 s
│    time_remaining = 23.48 s
│    average_speed = 115.809 KiB/s
│    downloaded = 118.589 KiB
│    remaining = 2.655 MiB
│    total = 2.771 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron2.tar.gz
│    dest = /tmp/enron2.tar.gz
│    progress = 0.0973
│    time_taken = 2.05 s
│    time_remaining = 19.01 s
│    average_speed = 134.746 KiB/s
```

```
      │   downloaded = 276.229 KiB
      │   remaining = 2.501 MiB
      │   total = 2.771 MiB
      └ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
      ┌ Info: Downloading
      │   source = http://www.aueb.gr/users/ion/data/enron-
      spam/preprocessed/enron2.tar.gz
      │   dest = /tmp/enron2.tar.gz
      │   progress = 0.1576
      │   time_taken = 3.07 s
      │   time_remaining = 16.42 s
      │   average_speed = 145.535 KiB/s
      │   downloaded = 447.229 KiB
      │   remaining = 2.334 MiB
      │   total = 2.771 MiB
      └ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
      ┌ Info: Downloading
      │   source = http://www.aueb.gr/users/ion/data/enron-
      spam/preprocessed/enron2.tar.gz
      │   dest = /tmp/enron2.tar.gz
      │   progress = 0.2212
      │   time_taken = 4.1 s
      │   time_remaining = 14.43 s
      │   average_speed = 153.106 KiB/s
      │   downloaded = 627.581 KiB
      │   remaining = 2.158 MiB
      │   total = 2.771 MiB
      └ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
      ┌ Info: Downloading
      │   source = http://www.aueb.gr/users/ion/data/enron-
      spam/preprocessed/enron2.tar.gz
      │   dest = /tmp/enron2.tar.gz
      │   progress = 0.3153
      │   time_taken = 5.22 s
      │   time_remaining = 11.34 s
      │   average_speed = 171.313 KiB/s
      │   downloaded = 894.769 KiB
      │   remaining = 1.897 MiB
      │   total = 2.771 MiB
      └ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
      ┌ Info: Downloading
      │   source = http://www.aueb.gr/users/ion/data/enron-
      spam/preprocessed/enron2.tar.gz
      │   dest = /tmp/enron2.tar.gz
      │   progress = 0.4255
      │   time_taken = 6.35 s
      │   time_remaining = 8.57 s
      │   average_speed = 190.138 KiB/s
      │   downloaded = 1.179 MiB
      │   remaining = 1.592 MiB
      │   total = 2.771 MiB
      └ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
```

```
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron2.tar.gz
│   dest = /tmp/enron2.tar.gz
│   progress = 0.5197
│   time_taken = 7.48 s
│   time_remaining = 6.91 s
│   average_speed = 197.214 KiB/s
│   downloaded = 1.440 MiB
│   remaining = 1.331 MiB
│   total = 2.771 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron2.tar.gz
│   dest = /tmp/enron2.tar.gz
│   progress = 0.6143
│   time_taken = 8.5 s
│   time_remaining = 5.34 s
│   average_speed = 205.069 KiB/s
│   downloaded = 1.702 MiB
│   remaining = 1.069 MiB
│   total = 2.771 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron2.tar.gz
│   dest = /tmp/enron2.tar.gz
│   progress = 0.6802
│   time_taken = 9.52 s
│   time_remaining = 4.48 s
│   average_speed = 202.659 KiB/s
│   downloaded = 1.885 MiB
│   remaining = 907.406 KiB
│   total = 2.771 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron2.tar.gz
│   dest = /tmp/enron2.tar.gz
│   progress = 0.8083
│   time_taken = 10.55 s
│   time_remaining = 2.5 s
│   average_speed = 217.455 KiB/s
│   downloaded = 2.240 MiB
│   remaining = 544.031 KiB
│   total = 2.771 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron2.tar.gz
│   dest = /tmp/enron2.tar.gz
```

```
│    progress = 0.8982
│    time_taken = 11.57 s
│    time_remaining = 1.31 s
│    average_speed = 220.263 KiB/s
│    downloaded = 2.489 MiB
│    remaining = 288.867 KiB
│    total = 2.771 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron2.tar.gz
│    dest = /tmp/enron2.tar.gz
│    progress = 1.0
│    time_taken = 12.52 s
│    time_remaining = 0.0 s
│    average_speed = 226.694 KiB/s
│    downloaded = 2.771 MiB
│    remaining = 0 bytes
│    total = 2.771 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron3.tar.gz
│    dest = /tmp/enron3.tar.gz
│    progress = 1.0
│    time_taken = 0.0 s
│    time_remaining = 0.0 s
│    average_speed = 173.828 KiB/s
│    downloaded = 178 bytes
│    remaining = 0 bytes
│    total = 178 bytes
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron3.tar.gz
│    dest = /tmp/enron3.tar.gz
│    progress = 0.049
│    time_taken = 1.02 s
│    time_remaining = 19.84 s
│    average_speed = 213.865 KiB/s
│    downloaded = 218.784 KiB
│    remaining = 4.144 MiB
│    total = 4.358 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron3.tar.gz
│    dest = /tmp/enron3.tar.gz
│    progress = 0.1068
│    time_taken = 2.04 s
│    time_remaining = 17.07 s
│    average_speed = 233.523 KiB/s
```

```
│    downloaded = 476.620 KiB
│    remaining = 3.892 MiB
│    total = 4.358 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron3.tar.gz
│    dest = /tmp/enron3.tar.gz
│    progress = 0.1843
│    time_taken = 3.07 s
│    time_remaining = 13.59 s
│    average_speed = 267.870 KiB/s
│    downloaded = 822.628 KiB
│    remaining = 3.555 MiB
│    total = 4.358 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron3.tar.gz
│    dest = /tmp/enron3.tar.gz
│    progress = 0.2517
│    time_taken = 4.1 s
│    time_remaining = 12.18 s
│    average_speed = 274.088 KiB/s
│    downloaded = 1.097 MiB
│    remaining = 3.261 MiB
│    total = 4.358 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron3.tar.gz
│    dest = /tmp/enron3.tar.gz
│    progress = 0.3238
│    time_taken = 5.12 s
│    time_remaining = 10.69 s
│    average_speed = 282.316 KiB/s
│    downloaded = 1.411 MiB
│    remaining = 2.947 MiB
│    total = 4.358 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron3.tar.gz
│    dest = /tmp/enron3.tar.gz
│    progress = 0.4373
│    time_taken = 6.12 s
│    time_remaining = 7.87 s
│    average_speed = 318.872 KiB/s
│    downloaded = 1.906 MiB
│    remaining = 2.452 MiB
│    total = 4.358 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
```

```
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron3.tar.gz
│   dest = /tmp/enron3.tar.gz
│   progress = 0.5699
│   time_taken = 7.27 s
│   time_remaining = 5.49 s
│   average_speed = 349.885 KiB/s
│   downloaded = 2.484 MiB
│   remaining = 1.874 MiB
│   total = 4.358 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron3.tar.gz
│   dest = /tmp/enron3.tar.gz
│   progress = 0.6924
│   time_taken = 8.3 s
│   time_remaining = 3.69 s
│   average_speed = 372.479 KiB/s
│   downloaded = 3.017 MiB
│   remaining = 1.341 MiB
│   total = 4.358 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron3.tar.gz
│   dest = /tmp/enron3.tar.gz
│   progress = 0.7771
│   time_taken = 9.32 s
│   time_remaining = 2.67 s
│   average_speed = 372.160 KiB/s
│   downloaded = 3.387 MiB
│   remaining = 994.749 KiB
│   total = 4.358 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron3.tar.gz
│   dest = /tmp/enron3.tar.gz
│   progress = 0.8953
│   time_taken = 10.34 s
│   time_remaining = 1.21 s
│   average_speed = 386.447 KiB/s
│   downloaded = 3.902 MiB
│   remaining = 467.054 KiB
│   total = 4.358 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron3.tar.gz
│   dest = /tmp/enron3.tar.gz
```

```
│    progress = 1.0
│    time_taken = 10.98 s
│    time_remaining = 0.0 s
│    average_speed = 406.276 KiB/s
│    downloaded = 4.358 MiB
│    remaining = 0 bytes
│    total = 4.358 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron4.tar.gz
│    dest = /tmp/enron4.tar.gz
│    progress = 1.0
│    time_taken = 0.0 s
│    time_remaining = 0.0 s
│    average_speed = 173.828 KiB/s
│    downloaded = 178 bytes
│    remaining = 0 bytes
│    total = 178 bytes
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron4.tar.gz
│    dest = /tmp/enron4.tar.gz
│    progress = 0.0587
│    time_taken = 1.02 s
│    time_remaining = 16.42 s
│    average_speed = 141.764 KiB/s
│    downloaded = 145.308 KiB
│    remaining = 2.274 MiB
│    total = 2.416 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron4.tar.gz
│    dest = /tmp/enron4.tar.gz
│    progress = 0.1284
│    time_taken = 2.15 s
│    time_remaining = 14.59 s
│    average_speed = 147.741 KiB/s
│    downloaded = 317.644 KiB
│    remaining = 2.105 MiB
│    total = 2.416 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron4.tar.gz
│    dest = /tmp/enron4.tar.gz
│    progress = 0.2407
│    time_taken = 3.23 s
│    time_remaining = 10.19 s
│    average_speed = 184.314 KiB/s
```

```
│   downloaded = 595.519 KiB
│   remaining = 1.834 MiB
│   total = 2.416 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron4.tar.gz
│   dest = /tmp/enron4.tar.gz
│   progress = 0.4087
│   time_taken = 4.26 s
│   time_remaining = 6.16 s
│   average_speed = 237.490 KiB/s
│   downloaded = 1010.995 KiB
│   remaining = 1.428 MiB
│   total = 2.416 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron4.tar.gz
│   dest = /tmp/enron4.tar.gz
│   progress = 0.5794
│   time_taken = 5.32 s
│   time_remaining = 3.87 s
│   average_speed = 269.136 KiB/s
│   downloaded = 1.400 MiB
│   remaining = 1.016 MiB
│   total = 2.416 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron4.tar.gz
│   dest = /tmp/enron4.tar.gz
│   progress = 0.817
│   time_taken = 6.45 s
│   time_remaining = 1.44 s
│   average_speed = 313.328 KiB/s
│   downloaded = 1.974 MiB
│   remaining = 452.688 KiB
│   total = 2.416 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron4.tar.gz
│   dest = /tmp/enron4.tar.gz
│   progress = 1.0
│   time_taken = 7.19 s
│   time_remaining = 0.0 s
│   average_speed = 344.088 KiB/s
│   downloaded = 2.416 MiB
│   remaining = 0 bytes
│   total = 2.416 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
```

```
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron5.tar.gz
│   dest = /tmp/enron5.tar.gz
│   progress = 1.0
│   time_taken = 0.0 s
│   time_remaining = 0.0 s
│   average_speed = ∞ B/s
│   downloaded = 178 bytes
│   remaining = 0 bytes
│   total = 178 bytes
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron5.tar.gz
│   dest = /tmp/enron5.tar.gz
│   progress = 0.0507
│   time_taken = 1.13 s
│   time_remaining = 21.14 s
│   average_speed = 105.132 KiB/s
│   downloaded = 118.589 KiB
│   remaining = 2.170 MiB
│   total = 2.286 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron5.tar.gz
│   dest = /tmp/enron5.tar.gz
│   progress = 0.1094
│   time_taken = 2.15 s
│   time_remaining = 17.51 s
│   average_speed = 119.048 KiB/s
│   downloaded = 256.190 KiB
│   remaining = 2.036 MiB
│   total = 2.286 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron5.tar.gz
│   dest = /tmp/enron5.tar.gz
│   progress = 0.1928
│   time_taken = 3.18 s
│   time_remaining = 13.3 s
│   average_speed = 142.033 KiB/s
│   downloaded = 451.237 KiB
│   remaining = 1.845 MiB
│   total = 2.286 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│   source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron5.tar.gz
│   dest = /tmp/enron5.tar.gz
```

```
│    progress = 0.2818
│    time_taken = 4.2 s
│    time_remaining = 10.7 s
│    average_speed = 157.058 KiB/s
│    downloaded = 659.644 KiB
│    remaining = 1.642 MiB
│    total = 2.286 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron5.tar.gz
│    dest = /tmp/enron5.tar.gz
│    progress = 0.4142
│    time_taken = 5.22 s
│    time_remaining = 7.39 s
│    average_speed = 185.637 KiB/s
│    downloaded = 969.581 KiB
│    remaining = 1.339 MiB
│    total = 2.286 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron5.tar.gz
│    dest = /tmp/enron5.tar.gz
│    progress = 0.5826
│    time_taken = 6.35 s
│    time_remaining = 4.55 s
│    average_speed = 214.787 KiB/s
│    downloaded = 1.332 MiB
│    remaining = 977.026 KiB
│    total = 2.286 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron5.tar.gz
│    dest = /tmp/enron5.tar.gz
│    progress = 0.7378
│    time_taken = 7.37 s
│    time_remaining = 2.62 s
│    average_speed = 234.241 KiB/s
│    downloaded = 1.687 MiB
│    remaining = 613.651 KiB
│    total = 2.286 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron5.tar.gz
│    dest = /tmp/enron5.tar.gz
│    progress = 0.9016
│    time_taken = 8.4 s
│    time_remaining = 0.92 s
│    average_speed = 251.336 KiB/s
```

```
│      downloaded = 2.061 MiB
│      remaining = 230.237 KiB
│      total = 2.286 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│      source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron5.tar.gz
│      dest = /tmp/enron5.tar.gz
│      progress = 1.0
│      time_taken = 8.81 s
│      time_remaining = 0.0 s
│      average_speed = 265.688 KiB/s
│      downloaded = 2.286 MiB
│      remaining = 0 bytes
│      total = 2.286 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│      source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron6.tar.gz
│      dest = /tmp/enron6.tar.gz
│      progress = 1.0
│      time_taken = 0.0 s
│      time_remaining = 0.0 s
│      average_speed = ∞ B/s
│      downloaded = 178 bytes
│      remaining = 0 bytes
│      total = 178 bytes
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│      source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron6.tar.gz
│      dest = /tmp/enron6.tar.gz
│      progress = 0.1037
│      time_taken = 1.12 s
│      time_remaining = 9.73 s
│      average_speed = 282.350 KiB/s
│      downloaded = 317.644 KiB
│      remaining = 2.682 MiB
│      total = 2.992 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│      source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron6.tar.gz
│      dest = /tmp/enron6.tar.gz
│      progress = 0.2005
│      time_taken = 2.15 s
│      time_remaining = 8.57 s
│      average_speed = 285.817 KiB/s
│      downloaded = 614.222 KiB
│      remaining = 2.392 MiB
│      total = 2.992 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
```

```
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
  spam/preprocessed/enron6.tar.gz
│    dest = /tmp/enron6.tar.gz
│    progress = 0.3562
│    time_taken = 3.28 s
│    time_remaining = 5.92 s
│    average_speed = 333.176 KiB/s
│    downloaded = 1.066 MiB
│    remaining = 1.926 MiB
│    total = 2.992 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
  spam/preprocessed/enron6.tar.gz
│    dest = /tmp/enron6.tar.gz
│    progress = 0.5114
│    time_taken = 4.3 s
│    time_remaining = 4.11 s
│    average_speed = 364.359 KiB/s
│    downloaded = 1.530 MiB
│    remaining = 1.462 MiB
│    total = 2.992 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
  spam/preprocessed/enron6.tar.gz
│    dest = /tmp/enron6.tar.gz
│    progress = 0.6047
│    time_taken = 5.32 s
│    time_remaining = 3.48 s
│    average_speed = 347.978 KiB/s
│    downloaded = 1.809 MiB
│    remaining = 1.183 MiB
│    total = 2.992 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
  spam/preprocessed/enron6.tar.gz
│    dest = /tmp/enron6.tar.gz
│    progress = 0.7521
│    time_taken = 6.35 s
│    time_remaining = 2.09 s
│    average_speed = 362.921 KiB/s
│    downloaded = 2.250 MiB
│    remaining = 759.493 KiB
│    total = 2.992 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
  spam/preprocessed/enron6.tar.gz
│    dest = /tmp/enron6.tar.gz
```

```
│    progress = 0.9331
│    time_taken = 7.47 s
│    time_remaining = 0.54 s
│    average_speed = 382.523 KiB/s
│    downloaded = 2.792 MiB
│    remaining = 205.079 KiB
│    total = 2.992 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
┌ Info: Downloading
│    source = http://www.aueb.gr/users/ion/data/enron-
spam/preprocessed/enron6.tar.gz
│    dest = /tmp/enron6.tar.gz
│    progress = 1.0
│    time_taken = 7.6 s
│    time_remaining = 0.0 s
│    average_speed = 402.956 KiB/s
│    downloaded = 2.992 MiB
│    remaining = 0 bytes
│    total = 2.992 MiB
└ @ HTTP /home/sayan/.julia/packages/HTTP/hJSsm/src/download.jl:119
enron1/
enron1/ham/
enron1/ham/0001.1999-12-10.farmer.ham.txt
enron1/ham/0002.1999-12-13.farmer.ham.txt
enron1/ham/0003.1999-12-14.farmer.ham.txt
enron1/ham/0004.1999-12-14.farmer.ham.txt
enron1/ham/0005.1999-12-14.farmer.ham.txt
enron1/ham/0007.1999-12-14.farmer.ham.txt
enron1/ham/0009.1999-12-14.farmer.ham.txt
enron1/ham/0010.1999-12-14.farmer.ham.txt
enron1/ham/0011.1999-12-14.farmer.ham.txt
enron1/ham/0012.1999-12-14.farmer.ham.txt
enron1/ham/0013.1999-12-14.farmer.ham.txt
enron1/ham/0014.1999-12-15.farmer.ham.txt
enron1/ham/0015.1999-12-15.farmer.ham.txt
enron1/ham/0016.1999-12-15.farmer.ham.txt
enron1/ham/0019.1999-12-15.farmer.ham.txt
enron1/ham/0020.1999-12-15.farmer.ham.txt
enron1/ham/0021.1999-12-15.farmer.ham.txt
enron1/ham/0022.1999-12-16.farmer.ham.txt
enron1/ham/0023.1999-12-16.farmer.ham.txt
enron1/ham/0024.1999-12-16.farmer.ham.txt
enron1/ham/0025.1999-12-16.farmer.ham.txt
enron1/ham/0027.1999-12-17.farmer.ham.txt
enron1/ham/0028.1999-12-17.farmer.ham.txt
enron1/ham/0029.1999-12-17.farmer.ham.txt
enron1/ham/0030.1999-12-20.farmer.ham.txt
enron1/ham/0031.1999-12-20.farmer.ham.txt
enron1/ham/0033.1999-12-20.farmer.ham.txt
enron1/ham/0034.1999-12-20.farmer.ham.txt
enron1/ham/0035.1999-12-20.farmer.ham.txt
enron1/ham/0036.1999-12-20.farmer.ham.txt
```

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enron1/ham/0037.1999-12-20.farmer.ham.txt
enron1/ham/0038.1999-12-20.farmer.ham.txt
enron1/ham/0039.1999-12-21.farmer.ham.txt
enron1/ham/0042.1999-12-21.farmer.ham.txt
enron1/ham/0043.1999-12-21.farmer.ham.txt
enron1/ham/0044.1999-12-21.farmer.ham.txt
enron1/ham/0045.1999-12-21.farmer.ham.txt
enron1/ham/0047.1999-12-21.farmer.ham.txt
enron1/ham/0048.1999-12-21.farmer.ham.txt
enron1/ham/0049.1999-12-21.farmer.ham.txt
enron1/ham/0050.1999-12-22.farmer.ham.txt
enron1/ham/0051.1999-12-22.farmer.ham.txt
enron1/ham/0053.1999-12-22.farmer.ham.txt
enron1/ham/0055.1999-12-22.farmer.ham.txt
enron1/ham/0056.1999-12-23.farmer.ham.txt
enron1/ham/0057.1999-12-23.farmer.ham.txt
enron1/ham/0059.1999-12-23.farmer.ham.txt
enron1/ham/0060.1999-12-23.farmer.ham.txt
enron1/ham/0063.1999-12-23.farmer.ham.txt
enron1/ham/0064.1999-12-23.farmer.ham.txt
enron1/ham/0066.1999-12-27.farmer.ham.txt
enron1/ham/0067.1999-12-27.farmer.ham.txt
enron1/ham/0068.1999-12-27.farmer.ham.txt
enron1/ham/0070.1999-12-27.farmer.ham.txt
enron1/ham/0071.1999-12-27.farmer.ham.txt
enron1/ham/0074.1999-12-28.farmer.ham.txt
enron1/ham/0076.1999-12-28.farmer.ham.txt
enron1/ham/0077.1999-12-28.farmer.ham.txt
enron1/ham/0078.1999-12-28.farmer.ham.txt
enron1/ham/0079.1999-12-28.farmer.ham.txt
enron1/ham/0081.1999-12-28.farmer.ham.txt
enron1/ham/0083.1999-12-28.farmer.ham.txt
enron1/ham/0085.1999-12-28.farmer.ham.txt
enron1/ham/0086.1999-12-29.farmer.ham.txt
enron1/ham/0087.1999-12-29.farmer.ham.txt
enron1/ham/0089.1999-12-29.farmer.ham.txt
enron1/ham/0090.1999-12-29.farmer.ham.txt
enron1/ham/0091.1999-12-29.farmer.ham.txt
enron1/ham/0092.1999-12-29.farmer.ham.txt
enron1/ham/0095.1999-12-29.farmer.ham.txt
enron1/ham/0096.1999-12-29.farmer.ham.txt
enron1/ham/0097.1999-12-29.farmer.ham.txt
enron1/ham/0098.1999-12-29.farmer.ham.txt
enron1/ham/0099.1999-12-30.farmer.ham.txt
enron1/ham/0101.1999-12-30.farmer.ham.txt
enron1/ham/0106.1999-12-30.farmer.ham.txt
enron1/ham/0107.1999-12-30.farmer.ham.txt
enron1/ham/0109.1999-12-30.farmer.ham.txt
enron1/ham/0111.1999-12-31.farmer.ham.txt
enron1/ham/0112.1999-12-31.farmer.ham.txt
enron1/ham/0113.2000-01-04.farmer.ham.txt
enron1/ham/0114.2000-01-04.farmer.ham.txt
```

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enron1/ham/0115.2000-01-04.farmer.ham.txt
enron1/ham/0117.2000-01-04.farmer.ham.txt
enron1/ham/0118.2000-01-04.farmer.ham.txt
enron1/ham/0119.2000-01-04.farmer.ham.txt
enron1/ham/0120.2000-01-04.farmer.ham.txt
enron1/ham/0121.2000-01-05.farmer.ham.txt
enron1/ham/0123.2000-01-05.farmer.ham.txt
enron1/ham/0124.2000-01-05.farmer.ham.txt
enron1/ham/0125.2000-01-05.farmer.ham.txt
enron1/ham/0126.2000-01-05.farmer.ham.txt
enron1/ham/0127.2000-01-05.farmer.ham.txt
enron1/ham/0128.2000-01-05.farmer.ham.txt
enron1/ham/0129.2000-01-05.farmer.ham.txt
enron1/ham/0132.2000-01-05.farmer.ham.txt
enron1/ham/0133.2000-01-06.farmer.ham.txt
enron1/ham/0136.2000-01-06.farmer.ham.txt
enron1/ham/0137.2000-01-06.farmer.ham.txt
enron1/ham/0138.2000-01-06.farmer.ham.txt
enron1/ham/0139.2000-01-06.farmer.ham.txt
enron1/ham/0140.2000-01-06.farmer.ham.txt
enron1/ham/0141.2000-01-06.farmer.ham.txt
enron1/ham/0142.2000-01-06.farmer.ham.txt
enron1/ham/0143.2000-01-07.farmer.ham.txt
enron1/ham/0144.2000-01-07.farmer.ham.txt
enron1/ham/0145.2000-01-07.farmer.ham.txt
enron1/ham/0146.2000-01-07.farmer.ham.txt
enron1/ham/0148.2000-01-07.farmer.ham.txt
enron1/ham/0151.2000-01-07.farmer.ham.txt
enron1/ham/0152.2000-01-10.farmer.ham.txt
enron1/ham/0154.2000-01-10.farmer.ham.txt
enron1/ham/0155.2000-01-10.farmer.ham.txt
enron1/ham/0156.2000-01-10.farmer.ham.txt
enron1/ham/0157.2000-01-10.farmer.ham.txt
enron1/ham/0158.2000-01-10.farmer.ham.txt
enron1/ham/0161.2000-01-10.farmer.ham.txt
enron1/ham/0162.2000-01-10.farmer.ham.txt
enron1/ham/0163.2000-01-10.farmer.ham.txt
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enron1/ham/0166.2000-01-11.farmer.ham.txt
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enron1/ham/0171.2000-01-11.farmer.ham.txt
enron1/ham/0172.2000-01-11.farmer.ham.txt
enron1/ham/0175.2000-01-11.farmer.ham.txt
enron1/ham/0177.2000-01-11.farmer.ham.txt
enron1/ham/0178.2000-01-11.farmer.ham.txt
enron1/ham/0179.2000-01-11.farmer.ham.txt
enron1/ham/0180.2000-01-11.farmer.ham.txt
enron1/ham/0181.2000-01-12.farmer.ham.txt
enron1/ham/0182.2000-01-12.farmer.ham.txt
enron1/ham/0183.2000-01-12.farmer.ham.txt
enron1/ham/0185.2000-01-12.farmer.ham.txt
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enron1/ham/0186.2000-01-12.farmer.ham.txt
enron1/ham/0187.2000-01-12.farmer.ham.txt
enron1/ham/0188.2000-01-12.farmer.ham.txt
enron1/ham/0190.2000-01-12.farmer.ham.txt
enron1/ham/0193.2000-01-12.farmer.ham.txt
enron1/ham/0194.2000-01-13.farmer.ham.txt
enron1/ham/0196.2000-01-13.farmer.ham.txt
enron1/ham/0198.2000-01-14.farmer.ham.txt
enron1/ham/0200.2000-01-14.farmer.ham.txt
enron1/ham/0201.2000-01-14.farmer.ham.txt
enron1/ham/0203.2000-01-16.farmer.ham.txt
enron1/ham/0205.2000-01-17.farmer.ham.txt
enron1/ham/0206.2000-01-17.farmer.ham.txt
enron1/ham/0207.2000-01-17.farmer.ham.txt
enron1/ham/0208.2000-01-17.farmer.ham.txt
enron1/ham/0210.2000-01-17.farmer.ham.txt
enron1/ham/0211.2000-01-17.farmer.ham.txt
enron1/ham/0212.2000-01-18.farmer.ham.txt
enron1/ham/0213.2000-01-18.farmer.ham.txt
enron1/ham/0215.2000-01-18.farmer.ham.txt
enron1/ham/0217.2000-01-18.farmer.ham.txt
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enron1/ham/0223.2000-01-19.farmer.ham.txt
enron1/ham/0224.2000-01-19.farmer.ham.txt
enron1/ham/0225.2000-01-19.farmer.ham.txt
enron1/ham/0226.2000-01-20.farmer.ham.txt
enron1/ham/0227.2000-01-20.farmer.ham.txt
enron1/ham/0229.2000-01-20.farmer.ham.txt
enron1/ham/0230.2000-01-20.farmer.ham.txt
enron1/ham/0231.2000-01-21.farmer.ham.txt
enron1/ham/0232.2000-01-21.farmer.ham.txt
enron1/ham/0234.2000-01-21.farmer.ham.txt
enron1/ham/0235.2000-01-21.farmer.ham.txt
enron1/ham/0237.2000-01-21.farmer.ham.txt
enron1/ham/0239.2000-01-21.farmer.ham.txt
enron1/ham/0240.2000-01-21.farmer.ham.txt
enron1/ham/0241.2000-01-21.farmer.ham.txt
enron1/ham/0242.2000-01-21.farmer.ham.txt
enron1/ham/0243.2000-01-24.farmer.ham.txt
enron1/ham/0244.2000-01-24.farmer.ham.txt
enron1/ham/0245.2000-01-24.farmer.ham.txt
enron1/ham/0246.2000-01-24.farmer.ham.txt
enron1/ham/0247.2000-01-24.farmer.ham.txt
enron1/ham/0249.2000-01-24.farmer.ham.txt
enron1/ham/0251.2000-01-24.farmer.ham.txt
enron1/ham/0252.2000-01-25.farmer.ham.txt
enron1/ham/0253.2000-01-25.farmer.ham.txt
enron1/ham/0254.2000-01-25.farmer.ham.txt
```

```
enron1/ham/0255.2000-01-25.farmer.ham.txt
enron1/ham/0257.2000-01-25.farmer.ham.txt
enron1/ham/0258.2000-01-25.farmer.ham.txt
enron1/ham/0259.2000-01-25.farmer.ham.txt
enron1/ham/0261.2000-01-25.farmer.ham.txt
enron1/ham/0262.2000-01-26.farmer.ham.txt
enron1/ham/0263.2000-01-26.farmer.ham.txt
enron1/ham/0265.2000-01-26.farmer.ham.txt
enron1/ham/0267.2000-01-26.farmer.ham.txt
enron1/ham/0268.2000-01-26.farmer.ham.txt
enron1/ham/0269.2000-01-27.farmer.ham.txt
enron1/ham/0270.2000-01-27.farmer.ham.txt
enron1/ham/0271.2000-01-27.farmer.ham.txt
enron1/ham/0272.2000-01-28.farmer.ham.txt
enron1/ham/0273.2000-01-28.farmer.ham.txt
enron1/ham/0274.2000-01-28.farmer.ham.txt
enron1/ham/0275.2000-01-28.farmer.ham.txt
enron1/ham/0276.2000-01-28.farmer.ham.txt
enron1/ham/0278.2000-01-28.farmer.ham.txt
enron1/ham/0279.2000-01-31.farmer.ham.txt
enron1/ham/0280.2000-01-31.farmer.ham.txt
enron1/ham/0281.2000-01-31.farmer.ham.txt
enron1/ham/0283.2000-01-31.farmer.ham.txt
enron1/ham/0284.2000-01-31.farmer.ham.txt
enron1/ham/0285.2000-01-31.farmer.ham.txt
enron1/ham/0286.2000-01-31.farmer.ham.txt
enron1/ham/0287.2000-01-31.farmer.ham.txt
enron1/ham/0288.2000-01-31.farmer.ham.txt
enron1/ham/0291.2000-01-31.farmer.ham.txt
enron1/ham/0292.2000-01-31.farmer.ham.txt
enron1/ham/0293.2000-01-31.farmer.ham.txt
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enron1/ham/0295.2000-02-01.farmer.ham.txt
enron1/ham/0296.2000-02-01.farmer.ham.txt
enron1/ham/0297.2000-02-01.farmer.ham.txt
enron1/ham/0299.2000-02-01.farmer.ham.txt
enron1/ham/0300.2000-02-01.farmer.ham.txt
enron1/ham/0301.2000-02-02.farmer.ham.txt
enron1/ham/0302.2000-02-02.farmer.ham.txt
enron1/ham/0304.2000-02-02.farmer.ham.txt
enron1/ham/0305.2000-02-02.farmer.ham.txt
enron1/ham/0306.2000-02-02.farmer.ham.txt
enron1/ham/0309.2000-02-02.farmer.ham.txt
enron1/ham/0310.2000-02-02.farmer.ham.txt
enron1/ham/0311.2000-02-02.farmer.ham.txt
enron1/ham/0313.2000-02-02.farmer.ham.txt
enron1/ham/0314.2000-02-02.farmer.ham.txt
enron1/ham/0315.2000-02-03.farmer.ham.txt
enron1/ham/0316.2000-02-03.farmer.ham.txt
enron1/ham/0317.2000-02-03.farmer.ham.txt
enron1/ham/0318.2000-02-03.farmer.ham.txt
enron1/ham/0319.2000-02-03.farmer.ham.txt
```

```
enron1/ham/0320.2000-02-03.farmer.ham.txt
enron1/ham/0321.2000-02-03.farmer.ham.txt
enron1/ham/0322.2000-02-03.farmer.ham.txt
enron1/ham/0326.2000-02-03.farmer.ham.txt
enron1/ham/0329.2000-02-04.farmer.ham.txt
enron1/ham/0330.2000-02-04.farmer.ham.txt
enron1/ham/0331.2000-02-04.farmer.ham.txt
enron1/ham/0333.2000-02-04.farmer.ham.txt
enron1/ham/0335.2000-02-04.farmer.ham.txt
enron1/ham/0336.2000-02-04.farmer.ham.txt
enron1/ham/0338.2000-02-04.farmer.ham.txt
enron1/ham/0340.2000-02-04.farmer.ham.txt
enron1/ham/0341.2000-02-04.farmer.ham.txt
enron1/ham/0343.2000-02-04.farmer.ham.txt
enron1/ham/0344.2000-02-04.farmer.ham.txt
enron1/ham/0345.2000-02-04.farmer.ham.txt
enron1/ham/0346.2000-02-04.farmer.ham.txt
enron1/ham/0348.2000-02-04.farmer.ham.txt
enron1/ham/0349.2000-02-04.farmer.ham.txt
enron1/ham/0350.2000-02-05.farmer.ham.txt
enron1/ham/0351.2000-02-06.farmer.ham.txt
enron1/ham/0353.2000-02-07.farmer.ham.txt
enron1/ham/0354.2000-02-07.farmer.ham.txt
enron1/ham/0355.2000-02-07.farmer.ham.txt
enron1/ham/0356.2000-02-07.farmer.ham.txt
enron1/ham/0358.2000-02-07.farmer.ham.txt
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enron1/ham/0365.2000-02-07.farmer.ham.txt
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enron1/ham/0368.2000-02-08.farmer.ham.txt
enron1/ham/0369.2000-02-08.farmer.ham.txt
enron1/ham/0370.2000-02-08.farmer.ham.txt
enron1/ham/0371.2000-02-08.farmer.ham.txt
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enron1/spam/4637.2005-06-04.GP.spam.txt
enron1/spam/4643.2005-06-05.GP.spam.txt
enron1/spam/4647.2005-06-05.GP.spam.txt
enron1/spam/4652.2005-06-05.GP.spam.txt
enron1/spam/4653.2005-06-05.GP.spam.txt
enron1/spam/4655.2005-06-05.GP.spam.txt
enron1/spam/4657.2005-06-06.GP.spam.txt
enron1/spam/4658.2005-06-08.GP.spam.txt
enron1/spam/4665.2005-06-09.GP.spam.txt
enron1/spam/4668.2005-06-10.GP.spam.txt
enron1/spam/4675.2005-06-10.GP.spam.txt
enron1/spam/4677.2005-06-11.GP.spam.txt
enron1/spam/4678.2005-06-11.GP.spam.txt
enron1/spam/4680.2005-06-11.GP.spam.txt
enron1/spam/4687.2005-06-12.GP.spam.txt
enron1/spam/4689.2005-06-14.GP.spam.txt
enron1/spam/4697.2005-06-14.GP.spam.txt
```

```
enron1/spam/4698.2005-06-14.GP.spam.txt
enron1/spam/4712.2005-06-14.GP.spam.txt
enron1/spam/4714.2005-06-16.GP.spam.txt
enron1/spam/4715.2005-06-16.GP.spam.txt
enron1/spam/4720.2005-06-16.GP.spam.txt
enron1/spam/4722.2005-06-17.GP.spam.txt
enron1/spam/4724.2005-06-17.GP.spam.txt
enron1/spam/4725.2005-06-18.GP.spam.txt
enron1/spam/4727.2005-06-19.GP.spam.txt
enron1/spam/4733.2005-06-20.GP.spam.txt
enron1/spam/4735.2005-06-20.GP.spam.txt
enron1/spam/4737.2005-06-23.GP.spam.txt
enron1/spam/4740.2005-06-23.GP.spam.txt
enron1/spam/4741.2005-06-25.GP.spam.txt
enron1/spam/4743.2005-06-25.GP.spam.txt
enron1/spam/4745.2005-06-25.GP.spam.txt
enron1/spam/4746.2005-06-26.GP.spam.txt
enron1/spam/4749.2005-06-26.GP.spam.txt
enron1/spam/4754.2005-06-27.GP.spam.txt
enron1/spam/4755.2005-06-27.GP.spam.txt
enron1/spam/4766.2005-06-28.GP.spam.txt
enron1/spam/4771.2005-06-28.GP.spam.txt
enron1/spam/4774.2005-06-29.GP.spam.txt
enron1/spam/4777.2005-06-29.GP.spam.txt
enron1/spam/4778.2005-06-29.GP.spam.txt
enron1/spam/4787.2005-06-29.GP.spam.txt
enron1/spam/4790.2005-07-01.GP.spam.txt
enron1/spam/4792.2005-07-02.GP.spam.txt
enron1/spam/4794.2005-07-03.GP.spam.txt
enron1/spam/4796.2005-07-03.GP.spam.txt
enron1/spam/4799.2005-07-04.GP.spam.txt
enron1/spam/4803.2005-07-04.GP.spam.txt
enron1/spam/4806.2005-07-04.GP.spam.txt
enron1/spam/4808.2005-07-04.GP.spam.txt
enron1/spam/4810.2005-07-04.GP.spam.txt
enron1/spam/4813.2005-07-04.GP.spam.txt
enron1/spam/4815.2005-07-04.GP.spam.txt
enron1/spam/4818.2005-07-05.GP.spam.txt
enron1/spam/4822.2005-07-06.GP.spam.txt
enron1/spam/4824.2005-07-07.GP.spam.txt
enron1/spam/4827.2005-07-07.GP.spam.txt
enron1/spam/4833.2005-07-07.GP.spam.txt
enron1/spam/4834.2005-07-08.GP.spam.txt
enron1/spam/4841.2005-07-09.GP.spam.txt
enron1/spam/4843.2005-07-09.GP.spam.txt
enron1/spam/4845.2005-07-09.GP.spam.txt
enron1/spam/4848.2005-07-09.GP.spam.txt
enron1/spam/4850.2005-07-10.GP.spam.txt
enron1/spam/4854.2005-07-10.GP.spam.txt
enron1/spam/4856.2005-07-10.GP.spam.txt
enron1/spam/4859.2005-07-11.GP.spam.txt
enron1/spam/4862.2005-07-11.GP.spam.txt
```

```
enron1/spam/4864.2005-07-12.GP.spam.txt
enron1/spam/4866.2005-07-12.GP.spam.txt
enron1/spam/4870.2005-07-13.GP.spam.txt
enron1/spam/4872.2005-07-14.GP.spam.txt
enron1/spam/4877.2005-07-14.GP.spam.txt
enron1/spam/4878.2005-07-14.GP.spam.txt
enron1/spam/4881.2005-07-15.GP.spam.txt
enron1/spam/4882.2005-07-17.GP.spam.txt
enron1/spam/4885.2005-07-17.GP.spam.txt
enron1/spam/4887.2005-07-18.GP.spam.txt
enron1/spam/4890.2005-07-18.GP.spam.txt
enron1/spam/4891.2005-07-19.GP.spam.txt
enron1/spam/4894.2005-07-19.GP.spam.txt
enron1/spam/4898.2005-07-22.GP.spam.txt
enron1/spam/4904.2005-07-22.GP.spam.txt
enron1/spam/4906.2005-07-22.GP.spam.txt
enron1/spam/4908.2005-07-23.GP.spam.txt
enron1/spam/4911.2005-07-23.GP.spam.txt
enron1/spam/4913.2005-07-24.GP.spam.txt
enron1/spam/4917.2005-07-25.GP.spam.txt
enron1/spam/4922.2005-07-25.GP.spam.txt
enron1/spam/4924.2005-07-26.GP.spam.txt
enron1/spam/4931.2005-07-26.GP.spam.txt
enron1/spam/4935.2005-07-27.GP.spam.txt
enron1/spam/4938.2005-07-27.GP.spam.txt
enron1/spam/4939.2005-07-28.GP.spam.txt
enron1/spam/4940.2005-07-30.GP.spam.txt
enron1/spam/4943.2005-07-30.GP.spam.txt
enron1/spam/4944.2005-07-30.GP.spam.txt
enron1/spam/4947.2005-08-01.GP.spam.txt
enron1/spam/4952.2005-08-04.GP.spam.txt
enron1/spam/4955.2005-08-04.GP.spam.txt
enron1/spam/4958.2005-08-04.GP.spam.txt
enron1/spam/4964.2005-08-04.GP.spam.txt
enron1/spam/4969.2005-08-04.GP.spam.txt
enron1/spam/4971.2005-08-05.GP.spam.txt
enron1/spam/4973.2005-08-05.GP.spam.txt
enron1/spam/4979.2005-08-06.GP.spam.txt
enron1/spam/4984.2005-08-07.GP.spam.txt
enron1/spam/4985.2005-08-09.GP.spam.txt
enron1/spam/4988.2005-08-10.GP.spam.txt
enron1/spam/4990.2005-08-11.GP.spam.txt
enron1/spam/4991.2005-08-12.GP.spam.txt
enron1/spam/4993.2005-08-13.GP.spam.txt
enron1/spam/4994.2005-08-13.GP.spam.txt
enron1/spam/5002.2005-08-13.GP.spam.txt
enron1/spam/5006.2005-08-14.GP.spam.txt
enron1/spam/5007.2005-08-14.GP.spam.txt
enron1/spam/5009.2005-08-14.GP.spam.txt
enron1/spam/5011.2005-08-14.GP.spam.txt
enron1/spam/5018.2005-08-15.GP.spam.txt
enron1/spam/5020.2005-08-16.GP.spam.txt
```

```
enron1/spam/5028.2005-08-16.GP.spam.txt
enron1/spam/5031.2005-08-17.GP.spam.txt
enron1/spam/5032.2005-08-18.GP.spam.txt
enron1/spam/5036.2005-08-18.GP.spam.txt
enron1/spam/5039.2005-08-19.GP.spam.txt
enron1/spam/5042.2005-08-19.GP.spam.txt
enron1/spam/5051.2005-08-20.GP.spam.txt
enron1/spam/5055.2005-08-21.GP.spam.txt
enron1/spam/5057.2005-08-22.GP.spam.txt
enron1/spam/5058.2005-08-23.GP.spam.txt
enron1/spam/5060.2005-08-23.GP.spam.txt
enron1/spam/5066.2005-08-23.GP.spam.txt
enron1/spam/5068.2005-08-23.GP.spam.txt
enron1/spam/5071.2005-08-24.GP.spam.txt
enron1/spam/5072.2005-08-25.GP.spam.txt
enron1/spam/5079.2005-08-25.GP.spam.txt
enron1/spam/5081.2005-08-25.GP.spam.txt
enron1/spam/5083.2005-08-25.GP.spam.txt
enron1/spam/5087.2005-08-26.GP.spam.txt
enron1/spam/5089.2005-08-26.GP.spam.txt
enron1/spam/5090.2005-08-27.GP.spam.txt
enron1/spam/5096.2005-08-29.GP.spam.txt
enron1/spam/5099.2005-08-29.GP.spam.txt
enron1/spam/5101.2005-08-29.GP.spam.txt
enron1/spam/5103.2005-08-31.GP.spam.txt
enron1/spam/5105.2005-08-31.GP.spam.txt
enron1/spam/5107.2005-08-31.GP.spam.txt
enron1/spam/5110.2005-08-31.GP.spam.txt
enron1/spam/5112.2005-08-31.GP.spam.txt
enron1/spam/5115.2005-09-01.GP.spam.txt
enron1/spam/5119.2005-09-01.GP.spam.txt
enron1/spam/5123.2005-09-01.GP.spam.txt
enron1/spam/5128.2005-09-02.GP.spam.txt
enron1/spam/5132.2005-09-02.GP.spam.txt
enron1/spam/5136.2005-09-04.GP.spam.txt
enron1/spam/5138.2005-09-04.GP.spam.txt
enron1/spam/5143.2005-09-04.GP.spam.txt
enron1/spam/5145.2005-09-04.GP.spam.txt
enron1/spam/5154.2005-09-05.GP.spam.txt
enron1/spam/5155.2005-09-05.GP.spam.txt
enron1/spam/5157.2005-09-06.GP.spam.txt
enron1/spam/5160.2005-09-06.GP.spam.txt
enron1/spam/5163.2005-09-06.GP.spam.txt
enron1/spam/5164.2005-09-06.GP.spam.txt
enron1/spam/5167.2005-09-06.GP.spam.txt
enron1/spam/5170.2005-09-06.GP.spam.txt
enron1/spam/5171.2005-09-06.GP.spam.txt
enron1/Summary.txt
```

```julia
[17]    using TextAnalysis
        function clean_email(message)
```

```julia
    patterns = [:html => (r"<[^<>]+>", " "),
                :number => (r"[0-9]+", "number"),
                :url => (r"(http|https)://[^\s]*", "httpaddr"),
                :email => (r"[^\s]+@[^\s]+", "emailaddr"),
                :dollar => (r"[$]+", "dollar")]

    for (symbol, (regex, replacement)) in patterns
        message = replace(message, regex => replacement)
    end

    splitting_chars = [' ', '@', '$', '/', '#', '.', '-', ':',
'&', '*', '+',
                       '=', '[', ']', '?', '!', '(', ')', '{',
'}', ',', '\'', '"',
                       '>', '_', '<', ';', '%']
    raw_words = split(message, splitting_chars)

    # remove all words that are too short
    cleaned_words = [word for word in raw_words if length(word) >
1]

    # remove all non alphanumeric characters from each word
    alpha_numeric_pattern = r"[^a-zA-Z0-9]"
    cleaned_words = [replace(word, alpha_numeric_pattern => "")
for word in  cleaned_words]

    string_doc = StringDocument(join(cleaned_words, ' '))
    stem!(string_doc)
    stemmed_words = split(TextAnalysis.text(string_doc), ' ')
end
```

clean_email (generic function with 1 method)

```julia
[18]  cleaned_legit_emails = [clean_email(read("enron1/ham/" *
      email_file,String)) for email_file in readdir("enron1/ham")]
      cleaned_spam_emails = [clean_email(read("enron1/spam/" *
      email_file,String)) for email_file in readdir("enron1/spam")];
```

```julia
[85]  size(cleaned_legit_emails)
```

(3672,)

```julia
[48]  vocab = []

      for i in 1:length(cleaned_legit_emails)
```

```julia
        for word in cleaned_legit_emails[i]
            push!(vocab,word)
        end
    end

    for j in 1:length(cleaned_spam_emails)
        for word in cleaned_spam_emails[j]
            push!(vocab,word)
        end
    end

    top200 = []
    sort_vocab = (sort(collect(StatsBase.countmap(vocab)), by=x-
    >x[2],rev=true))
    #vocab_clean_map = sort(StatsBase.countmap(vocab_clean))
    for i in 1:2000
        push!(top200,first((sort_vocab)[i]))
    end
```

```julia
[51]    features1 = []

        for i in 1:length(cleaned_legit_emails)
            f = []
            words = cleaned_legit_emails[i]
            for j in 1:2000
                if top200[j] in words
                    push!(f,1.0)
                else
                    push!(f,0.0)
                end
            end
            features1 = [features1;f]
        end

        features1 = reshape(features1,length(cleaned_legit_emails),2000)
        #features1 = [features1 ones(length(cleaned_legit_emails))]

        features2 = []
        for i in 1:length(cleaned_spam_emails)
            f = []
            words = cleaned_spam_emails[i]
            for j in 1:2000
                if top200[j] in words
                    push!(f,1.0)
                else
                    push!(f,0.0)
                end
            end
            features2 = [features2;f]
        end
```

```
features2 = reshape(features2,length(cleaned_spam_emails),2000)
#features2 = [features2 zeros(length(cleaned_spam_emails))]


features1
features2
features_enron = [features1; features2]
labels1 = [-1 for i in 1:length(cleaned_spam_emails)]
labels2 = [1 for i in 1:length(cleaned_legit_emails)]
labels_enron = [labels1;labels2];
labels_enron = float.(labels_enron);
```

[53]

```
test_messages = [
    "Do you still want to play rackets on Friday?",
    "Your purchase won a \$1000 gift card! Click here to claim",
    "Call the IRS immediately to avoid prosecution",
    "Would you mind providing some feedback on this
recommendation letter? Thanks!"
]

cleaned_tests = [clean_email(message) for message in
test_messages]

feature_test = []
for i in 1:length(cleaned_tests)
    f = []
    words = cleaned_tests[i]
    for j in 1:2000
        if top200[j] in words
            push!(f,1.0)
        else
            push!(f,0.0)
        end
    end
    feature_test = [feature_test;f]
end

feature_test = reshape(feature_test,length(cleaned_tests),2000)
#feature_test = [float(f) for f in feature_test]
feature_test = float.(feature_test)
```

```
4×2000 Array{Float64,2}:
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  …  0.0  0.0  0.0  0.0  0.0  0.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
0.0
 1.0  0.0  1.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
0.0
```

```
    0.0  1.0  0.0  0.0  0.0  0.0  0.0  0.0      0.0  0.0  0.0  0.0  0.0  0.0
    0.0
```

```julia
combined = [features_enron labels_enron ]
unique(features_enron)
shuff_features_enron = features_enron[shuffle(1:end), :]
combined = combined[shuffle(1:end), :]
labels_shuffled = combined[:,end:end]
features_shuffled = combined[:,1:end-1]
```

```
5172×2000 Array{Any,2}:
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  …  0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  1.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  1.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 1.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  1.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  …  0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  1.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  …  0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
 0.0
  ⋮                             ⋮        ⋱                 ⋮
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  …  0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  1.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  1.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  1.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  0.0  0.0  1.0  0.0  0.0  …  0.0  0.0  0.0  0.0  0.0  0.0
 0.0
 0.0  0.0  0.0  1.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
```

```
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  1.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  1.0  0.0  …  0.0  0.0  0.0  0.0  0.0  0.0
0.0
 0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0     0.0  0.0  0.0  0.0  0.0  0.0
0.0
```

[64]
```julia
train_split = features_shuffled[1:4672,1:end]
test_split = features_shuffled[4673:end,1:end]

label_train = labels_shuffled[1:4672]
label_test = labels_shuffled[4673:end];

score(label_predict,label_test) = sum(yp == yt for (yp,yt) in
zip(label_predict,label_test))

function SVMCV()
    best_model = svmtrain(Array{Float64}(train_split'),
Array{Float64}(label_train),
        kernel = LIBSVM.Kernel.Linear, cost = 100.0);
    for C in 1:5:100
        model = svmtrain(Array{Float64}(train_split'),
Array{Float64}(label_train),
            kernel = LIBSVM.Kernel.Linear, cost = float(C))
        label_predict_n = svmpredict(model, Array{Float64}
(test_split'))
        label_predict_best = svmpredict(best_model,
Array{Float64}(test_split'))
        if score(label_predict_n,label_test) >
score(label_predict_best,label_test)
            best_model = model
        else
            best_model = best_model
        end
    end
    return best_model
end
```

SVMCV (generic function with 1 method)

[65]
```julia
model = SVMCV()
```

```
LIBSVM.SVM{Float64}(SVC, Linear::KERNEL = 0, nothing, 2000, 2, [1.0,
-1.0], Int32[1, 2], Float64[], Int32[],
LIBSVM.SupportVectors{Float64,Float64}(762, Int32[430, 332], [1.0, 1.0,
1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0  …  -1.0, -1.0, -1.0, -1.0, -1.0,
-1.0, -1.0, -1.0, -1.0, -1.0], [0.0 0.0 … 0.0 0.0; 0.0 1.0 … 0.0 0.0; …
; 0.0 0.0 … 0.0 0.0; 0.0 0.0 … 0.0 0.0], Int32[27, 42, 52, 71, 76, 78,
94, 96, 100, 109  …  4494, 4505, 4521, 4573, 4585, 4596, 4629, 4633,
4643, 4665], LIBSVM.SVMNode[SVMNode(1, 0.0), SVMNode(1, 0.0), SVMNode(1,
0.0), SVMNode(1, 0.0), SVMNode(1, 0.0), SVMNode(1, 1.0), SVMNode(1,
0.0), SVMNode(1, 0.0), SVMNode(1, 0.0), SVMNode(1, 0.0)  …  SVMNode(1,
0.0), SVMNode(1, 0.0), SVMNode(1, 0.0), SVMNode(1, 0.0), SVMNode(1,
0.0), SVMNode(1, 0.0), SVMNode(1, 0.0), SVMNode(1, 0.0), SVMNode(1,
0.0), SVMNode(1, 0.0)]), 0.0, [0.0276626; 0.000418965; … ; -0.00383456;
-0.00677486], Float64[], Float64[], [-1.15971], 3, 0.0005, 200.0, 0.001,
100.0, 0.5, 0.1, true, false)
```

[68]
```julia
(prediction, dec_vals) = svmpredict(model, Array{Float64}
(feature_test'))
y_train = [1.0,-1.0,-1.0,1.0]
prediction
```

```
4-element Array{Float64,1}:
 1.0
 1.0
 1.0
 1.0
```

(a) For SVM using Radial Bases, we got all 1's :(Not good.

(b) For SVM using Linear, we got all 1's. Giving up.

Problem 6

The kernelized soft-margin SVM turns out to boil down to a story eerily reminiscent of kernel density estimation: at each training observation, we spread out a *charge* in the shape of the chosen kernel (charge, now, instead of mass, since it can carry a positive or negative sign) centered at each training observation. Given a point x to make a prediction for, we sum the amounts of charge contributed at x from each of the training points, and just work out whether the resulting sum is positive or negative.

The way in which the charges are distributed has some constraints: the amount of charge associated with each training point is never more than C and never has the opposite sign to the class of the training point. Also, we have to put the same total amount of charge on the positive and negative training examples.

We could build a machine learning model which is more similar to kernel density estimation: each training point gets the same total amount of charge (positive it's positive, negative otherwise). Such a model would be significantly less effective than the kernelized soft-margin SVM on real-world data. Describe what you think its main advantages are.

Hint: starting with the code below, make a plot which shows the support vectors for the radial-basis SVM (with high cost value), for the given set of curvily entangled data.

```julia
[23]   using Random; Random.seed!(123)

       function randblue()
           t = rand()
           [t*cos(3t), t*sin(3t)] + 0.1*randn(2)
       end

       function randred()
           t = rand()
           [-0.25, 0.25] + [t*cos(3t), -t*sin(3t)] + 0.1*randn(2)
       end

       n = 100
       X = [vcat([randblue()' for _ in 1:n]...); vcat([randred()' for _
       in 1:n]...)];
       y = repeat([-1,1], inner = n);

       model = svmtrain(X', y, kernel = LIBSVM.Kernel.RadialBasis, cost
       = 10.0);
```

```julia
[24]   model.SVs.X
```

```
2×67 Array{Float64,2}:
  0.0691787  -0.179557  0.140099  …  -0.196585  0.00194366  -0.159487
 -0.0494581   0.475352  0.136191      0.234949  0.15343      0.141374
```

```julia
[25]   scatter(X[:,1], X[:,2], legend = false, ratio = 1, group = y,
       color = [:blue :red])
       heatmap!(-1.5:0.005:1, -0.75:0.005:1, (x,y) -> svmpredict(model,
       reshape([x y],(2,1)))[1][1],
                fillopacity = 0.2, fillcolor = cgrad([:blue, :red]))
       scatter!(model.SVs.X[1,:],model.SVs.X[2,:],color=:black)
```
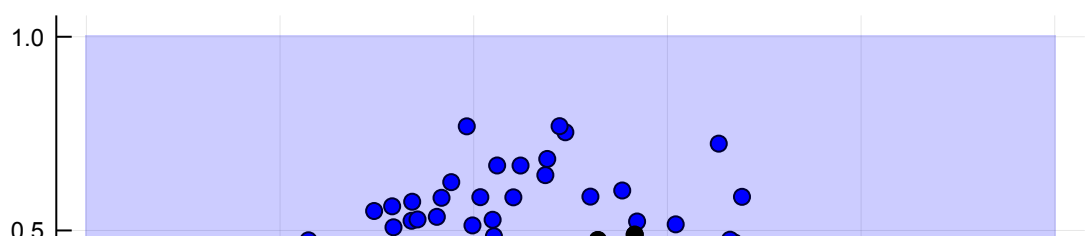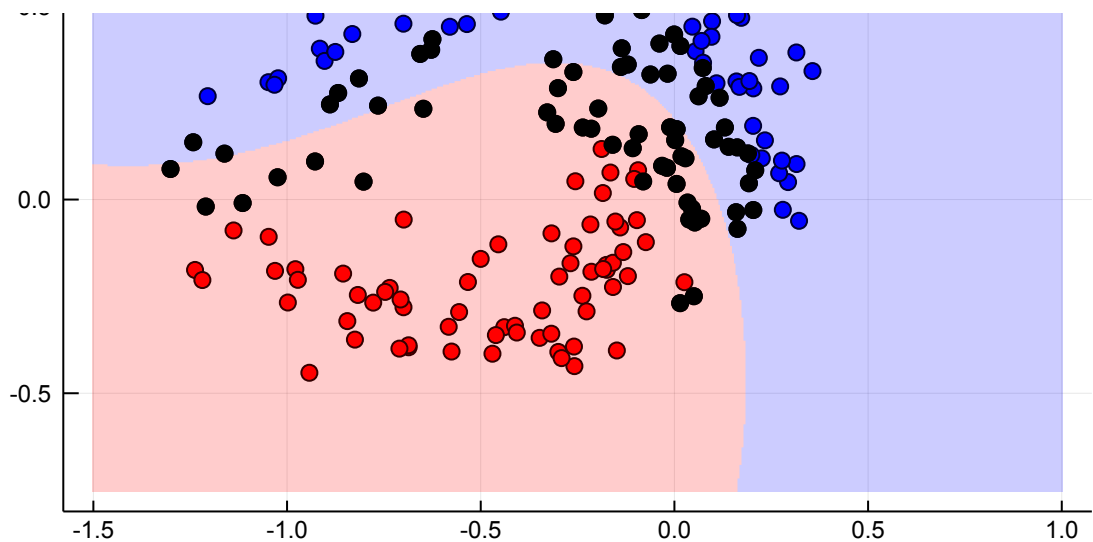
As we see from the SVM, only points which are on the boundary get a penalty of some points, but the safe ones (far from the boundary is 0). However, normal KDE, gives the same penalty for all points that are wrong.

Hence, SVM gives a better fit (and is more forgiving) yet getting points far away right and in a ways making most of the points still right.

Problem 7

Train 100 `DecisionTreeClassifiers` on a randomly selected sample of size 50 chosen from the Iris training observations. Just use the first two features, so you can plot a heatmap. How volatile are the predictions from one such tree to another? Consider making several heatmap images and displaying them in a grid, like so:

```
p = [scatter(randn(20), randn(20), label = "") for _ in 1:12] # a doz
plot(p..., layout = (4,3), size = (1000,600))
```

How volatile are the predictions made by plurality vote of the ensemble of 100 classifiers? Describe qualitatively.

Solution.

```
[154]    using DecisionTree
         features, labels = load_data("iris")
         labeldict = Dict(map(reverse,enumerate(collect(Set(labels)))))

         model = DecisionTreeClassifier(max_depth=3)
         gr()
         #scatter!(features[:,1], features[:,2], group = labels)
```

```julia
    for i in 1:1:100
        #gr()
        inds = rand(1:length(labels), 50) # subsample training data
        DecisionTree.fit!(model, features[inds,1:2], labels[inds])
        #scatter(features[:,1], features[:,2], group = labels)
        heatmap!(4:0.01:8, 2:0.01:5,
            (x,y) -> labeldict[DecisionTree.predict(model, Any[x y])
[1]],
            fillopacity = 0.2, fillcolor = cgrad([:red, :green,
:blue]), colorbar = false,legend=false)
        #fn = "heatmap_6_$(i).png"
        #savefig(fn)
    end

    savefig("Total.png");
    scatter(features[:,1], features[:,2], group = labels)
    savefig("Total_scatter.png");
```

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[167]   **pwd**()

"/home/sayan/Documents/Data Science/DATA1010/hw08"

[ ]