The data set (and description) can be downloaded here:
http://archive.ics.uci.edu/ml/machine-learning-databases/iris/iris.data

Description:

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1. Title: Iris Plants Database
Updated Sept 21 by C.Blake - Added discrepency information

2. Sources:
     (a) Creator: R.A. Fisher
     (b) Donor: Michael Marshall (MARSHALL%PLU@io.arc.nasa.gov)
     (c) Date: July, 1988

3. Past Usage:
   - Publications: too many to mention!!!  Here are a few.
   1. Fisher,R.A. "The use of multiple measurements in taxonomic problems"
      Annual Eugenics, 7, Part II, 179-188 (1936); also in "Contributions
      to Mathematical Statistics" (John Wiley, NY, 1950).
   2. Duda,R.O., & Hart,P.E. (1973) Pattern Classification and Scene Analysis.
      (Q327.D83) John Wiley & Sons.  ISBN 0-471-22361-1.  See page 218.
   3. Dasarathy, B.V. (1980) "Nosing Around the Neighborhood: A New System
      Structure and Classification Rule for Recognition in Partially Exposed
      Environments".  IEEE Transactions on Pattern Analysis and Machine
      Intelligence, Vol. PAMI-2, No. 1, 67-71.
      -- Results:
         -- very low misclassification rates (0% for the setosa class)
   4. Gates, G.W. (1972) "The Reduced Nearest Neighbor Rule".  IEEE
      Transactions on Information Theory, May 1972, 431-433.
      -- Results:
         -- very low misclassification rates again
   5. See also: 1988 MLC Proceedings, 54-64.  Cheeseman et al's AUTOCLASS II
      conceptual clustering system finds 3 classes in the data.

4. Relevant Information:
   --- This is perhaps the best known database to be found in the pattern
       recognition literature.  Fisher's paper is a classic in the field
       and is referenced frequently to this day.  (See Duda & Hart, for
       example.)  The data set contains 3 classes of 50 instances each,
       where each class refers to a type of iris plant.  One class is
       linearly separable from the other 2; the latter are NOT linearly
       separable from each other.
   --- Predicted attribute: class of iris plant.
   --- This is an exceedingly simple domain.
   --- This data differs from the data presented in Fishers article
(identified by Steve Chadwick,  spchadwick@espeedaz.net )
The 35th sample should be: 4.9,3.1,1.5,0.2,"Iris-setosa"
where the error is in the fourth feature.
The 38th sample: 4.9,3.6,1.4,0.1,"Iris-setosa"
where the errors are in the second and third features.

5. Number of Instances: 150 (50 in each of three classes)

6. Number of Attributes: 4 numeric, predictive attributes and the class
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7. Attribute Information:
   1. sepal length in cm
   2. sepal width in cm
   3. petal length in cm
   4. petal width in cm
   5. class:
      -- Iris Setosa
      -- Iris Versicolour
      -- Iris Virginica

8. Missing Attribute Values: None

Summary Statistics:

	Min	Max	Mean	SD	Class Correlation	
sepal length:	4.3	7.9	5.84	0.83	0.7826	
sepal width:	2.0	4.4	3.05	0.43	-0.4194	
petal length:	1.0	6.9	3.76	1.76	0.9490	(high!)
petal width:	0.1	2.5	1.20	0.76	0.9565	(high!)

9. Class Distribution: 33.3% for each of 3 classes.

Citation Request:

Please refer to the repository http://archive.ics.uci.edu/ml (see citation policy).
See also Frank, A. & Asuncion, A. (2010). UCI Machine Learning Repository [http://archive.ics.uci.edu/ml].
Irvine, CA: University of California, School of Information and Computer Science.

Descriptive statistics:

Dataset= iris_setosavsvirginica : n= 100 , d= 4

Class1: n= 50

Covariance matrix:

	[,1]	[,2]	[,3]	[,4]
[1,]	0.1242	0.1003	0.0161	0.0105
[2,]	0.1003	0.1452	0.0117	0.0114
[3,]	0.0161	0.0117	0.0301	0.0057
[4,]	0.0105	0.0114	0.0057	0.0115

Correlation matrix:

	[,1]	[,2]	[,3]	[,4]
[1,]	1.0000	0.7468	0.2639	0.2791
[2,]	0.7468	1.0000	0.1767	0.2800
[3,]	0.2639	0.1767	1.0000	0.3063
[4,]	0.2791	0.2800	0.3063	1.0000

Median:	5	3.4	1.5	0.2
Mean:	5.006	3.418	1.464	0.244
MCD-estimated:				
MDC-0.975-Mean:	4.975	3.3893	1.4429	0.2
MDC-0.750-Mean:	4.975	3.3893	1.4429	0.2
MDC-0.500-Mean:	4.975	3.3893	1.4429	0.2

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Class2: n= 50

Covariance matrix:
       [,1]   [,2]   [,3]   [,4]
[1,] 0.4043 0.0938 0.3033 0.0491
[2,] 0.0938 0.1040 0.0714 0.0476
[3,] 0.3033 0.0714 0.3046 0.0488
[4,] 0.0491 0.0476 0.0488 0.0754

Correlation matrix:
       [,1]   [,2]   [,3]   [,4]
[1,] 1.0000 0.4572 0.8642 0.2811
[2,] 0.4572 1.0000 0.4010 0.5377
[3,] 0.8642 0.4010 1.0000 0.3221
[4,] 0.2811 0.5377 0.3221 1.0000

Median:           6.5421 2.9864 5.4953 2.0428

Mean:             6.588  2.974  5.552  2.026
MCD-estimated:
MDC-0.975-Mean:   6.4622 2.9489 5.4289 2.0156
MDC-0.750-Mean:   6.4622 2.9489 5.4289 2.0156
MDC-0.500-Mean:   6.439  2.9634 5.4049 2.0415

Measures:
Mah.Dist:                          13.9949
Mah.Dist-MCD-0.975:                12.4107
Mah.Dist-MCD-0.750:                12.6257
Mah.Dist-MCD-0.500:                12.4107
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