

```
>> TreeBagger(d)
Undefined function or variable 'd'.

>> ?? TreeBagger
?? TreeBagger
|
Error: The input character is not valid in MATLAB statements or expressions.

>> help(TreeBagger)
Error using TreeBagger (line 531)
Not enough input arguments.

>> TreeBagger(Y,X,Xtest)
Error using classreg.learning.FullClassificationRegressionModel.prepareDataCR (line 138)
X and Y do not have the same number of observations.

Error in ClassificationTree.prepareData (line 482)
    [X,Y,W,dataSummary] = ...

Error in TreeBagger/init (line 1190)
    [bagger.X,y,bagger.W,bagger.DataSummary,classSummary] = ...

Error in TreeBagger (line 531)
    bagger = init(bagger,X,Y,makeArgs{:});

>> TreeBagger(Y,X)
Error using TreeBagger (line 531)
Not enough input arguments.

>> fitctree(X,Y)

ans =

ClassificationTree
    PredictorNames: {1x27 cell}
    ResponseName: 'Y'
    ClassNames: [0 1]
    ScoreTransform: 'none'
    CategoricalPredictors: []
    NumObservations: 885

Properties, Methods

>> View
Cannot find an exact (case-sensitive) match for 'View'

The closest match is: view in /Applications/MATLAB_R2014b.✓
app/toolbox/matlab/graph3d/view.m

Did you mean:
>> view

ans =

    1.0000         0         0    -0.5000
         0    1.0000         0    -0.5000
```

```
      0      0    -1.0000    9.1603
      0      0      0.0000    1.0000
```

```
>> a=fitctree(X,Y)
```

```
a =
```

```
ClassificationTree
    PredictorNames: {1x27 cell}
    ResponseName: 'Y'
    ClassNames: [0 1]
    ScoreTransform: 'none'
    CategoricalPredictors: []
    NumObservations: 885
```

```
Properties, Methods
```

```
>> view(a)
```

```
Decision tree for classification
```

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1  if x2<0.5 then node 2 elseif x2>=0.5 then node 3 else 0
2  if x1<2.5 then node 4 elseif x1>=2.5 then node 5 else 1
3  if x24<0.5 then node 6 elseif x24>=0.5 then node 7 else 0
4  if x6<272 then node 8 elseif x6>=272 then node 9 else 1
5  if x7<23.35 then node 10 elseif x7>=23.35 then node 11 else 0
6  if x3<17.5 then node 12 elseif x3>=17.5 then node 13 else 0
7  if x3<3.5 then node 14 elseif x3>=3.5 then node 15 else 0
8  class = 0
9  if x6<237670 then node 16 elseif x6>=237670 then node 17 else 1
10 if x3<36.5 then node 18 elseif x3>=36.5 then node 19 else 1
11 if x5<0.5 then node 20 elseif x5>=0.5 then node 21 else 0
12 class = 1
13 if x6<31157.5 then node 22 elseif x6>=31157.5 then node 23 else 0
14 if x4<2 then node 24 elseif x4>=2 then node 25 else 1
15 if x6<1840 then node 26 elseif x6>=1840 then node 27 else 0
16 if x3<2.5 then node 28 elseif x3>=2.5 then node 29 else 1
17 if x6<237704 then node 30 elseif x6>=237704 then node 31 else 1
18 if x6<366226 then node 32 elseif x6>=366226 then node 33 else 1
19 class = 0
20 class = 1
21 class = 0
22 if x6<8743 then node 34 elseif x6>=8743 then node 35 else 0
23 if x21<0.5 then node 36 elseif x21>=0.5 then node 37 else 0
24 class = 1
25 class = 0
26 if x6<1593 then node 38 elseif x6>=1593 then node 39 else 0
27 if x14<0.5 then node 40 elseif x14>=0.5 then node 41 else 0
28 class = 0
29 if x19<0.5 then node 42 elseif x19>=0.5 then node 43 else 1
30 class = 0
31 class = 1
32 if x6<345668 then node 44 elseif x6>=345668 then node 45 else 1
33 class = 1
34 class = 0
35 if x7<98.7521 then node 46 elseif x7>=98.7521 then node 47 else 1
36 if x3<28.5 then node 48 elseif x3>=28.5 then node 49 else 0
37 class = 1
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38 class = 0
39 class = 1
40 if x3<13 then node 50 elseif x3>=13 then node 51 else 0
41 if x3<37 then node 52 elseif x3>=37 then node 53 else 0
42 if x6<11709.5 then node 54 elseif x6>=11709.5 then node 55 else 1
43 class = 1
44 if x7<8.0396 then node 56 elseif x7>=8.0396 then node 57 else 1
45 if x6<347080 then node 58 elseif x6>=347080 then node 59 else 0
46 if x3<49.5 then node 60 elseif x3>=49.5 then node 61 else 1
47 if x7<387.665 then node 62 elseif x7>=387.665 then node 63 else 0
48 class = 0
49 if x7<116.638 then node 64 elseif x7>=116.638 then node 65 else 0
50 if x4<2 then node 66 elseif x4>=2 then node 67 else 0
51 if x1<1.5 then node 68 elseif x1>=1.5 then node 69 else 0
52 class = 0
53 class = 1
54 if x6<8701.5 then node 70 elseif x6>=8701.5 then node 71 else 1
55 class = 1
56 if x15<0.5 then node 72 elseif x15>=0.5 then node 73 else 1
57 if x7<16.4 then node 74 elseif x7>=16.4 then node 75 else 0
58 class = 0
59 if x6<348489 then node 76 elseif x6>=348489 then node 77 else 0
60 if x6<17581 then node 78 elseif x6>=17581 then node 79 else 1
61 class = 0
62 class = 0
63 class = 1
64 class = 0
65 class = 1
66 class = 1
67 class = 0
68 if x4<1.5 then node 80 elseif x4>=1.5 then node 81 else 0
69 if x25<0.5 then node 82 elseif x25>=0.5 then node 83 else 0
70 class = 1
71 class = 0
72 class = 1
73 class = 0
74 if x6<2662 then node 84 elseif x6>=2662 then node 85 else 0
75 class = 1
76 class = 1
77 if x6<364681 then node 86 elseif x6>=364681 then node 87 else 0
78 class = 1
79 if x6<19935.5 then node 88 elseif x6>=19935.5 then node 89 else 0
80 if x7<30.5979 then node 90 elseif x7>=30.5979 then node 91 else 0
81 class = 1
82 if x3<32.5 then node 92 elseif x3>=32.5 then node 93 else 0
83 if x7<15.1479 then node 94 elseif x7>=15.1479 then node 95 else 0
84 class = 1
85 class = 0
86 if x6<356849 then node 96 elseif x6>=356849 then node 97 else 0
87 class = 0
88 class = 0
89 class = 1
90 if x6<65699 then node 98 elseif x6>=65699 then node 99 else 0
91 class = 0
92 if x3<30.75 then node 100 elseif x3>=30.75 then node 101 else 0
93 if x6<9402 then node 102 elseif x6>=9402 then node 103 else 0
94 if x6<2621.5 then node 104 elseif x6>=2621.5 then node 105 else 0
95 if x7<20.2334 then node 106 elseif x7>=20.2334 then node 107 else 0
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96  if x25<0.5 then node 108 elseif x25>=0.5 then node 109 else 0
97  class = 1
98  class = 0
99  class = 1
100  if x7<7.7979 then node 110 elseif x7>=7.7979 then node 111 else 0
101  if x6<5689.5 then node 112 elseif x6>=5689.5 then node 113 else 0
102  class = 0
103  if x6<238832 then node 114 elseif x6>=238832 then node 115 else 0
104  class = 0
105  if x3<29.5 then node 116 elseif x3>=29.5 then node 117 else 0
106  class = 1
107  class = 0
108  class = 0
109  class = 1
110  if x7<7.74585 then node 118 elseif x7>=7.74585 then node 119 else 0
111  if x9<0.5 then node 120 elseif x9>=0.5 then node 121 else 0
112  class = 1
113  class = 0
114  if x6<237682 then node 122 elseif x6>=237682 then node 123 else 0
115  class = 0
116  if x3<28.75 then node 124 elseif x3>=28.75 then node 125 else 0
117  if x6<2680 then node 126 elseif x6>=2680 then node 127 else 0
118  if x6<19270 then node 128 elseif x6>=19270 then node 129 else 0
119  class = 0
120  if x3<26.5 then node 130 elseif x3>=26.5 then node 131 else 0
121  if x3<19.5 then node 132 elseif x3>=19.5 then node 133 else 0
122  class = 0
123  class = 1
124  class = 0
125  class = 1
126  if x6<2675.5 then node 134 elseif x6>=2675.5 then node 135 else 0
127  class = 0
128  class = 0
129  if x7<7.0125 then node 136 elseif x7>=7.0125 then node 137 else 0
130  if x13<0.5 then node 138 elseif x13>=0.5 then node 139 else 0
131  if x7<8.08125 then node 140 elseif x7>=8.08125 then node 141 else 0
132  class = 1
133  class = 0
134  class = 0
135  class = 1
136  if x7<6.9625 then node 142 elseif x7>=6.9625 then node 143 else 0
137  class = 0
138  class = 0
139  class = 1
140  class = 0
141  if x7<10 then node 144 elseif x7>=10 then node 145 else 0
142  class = 0
143  class = 1
144  if x3<27.5 then node 146 elseif x3>=27.5 then node 147 else 0
145  if x6<244366 then node 148 elseif x6>=244366 then node 149 else 0
146  class = 1
147  class = 0
148  class = 0
149  if x4<1.5 then node 150 elseif x4>=1.5 then node 151 else 0
150  if x6<246550 then node 152 elseif x6>=246550 then node 153 else 0
151  class = 1
152  class = 1
153  class = 0
```

```
>> view
```

```
ans =
```

```

1.0000    0    0   -0.5000
    0    1.0000    0   -0.5000
    0    0   -1.0000    9.1603
    0    0    0    1.0000

```

```
>> view(a)
```

```
Decision tree for classification
```

```

1  if x2<0.5 then node 2 elseif x2>=0.5 then node 3 else 0
2  if x1<2.5 then node 4 elseif x1>=2.5 then node 5 else 1
3  if x24<0.5 then node 6 elseif x24>=0.5 then node 7 else 0
4  if x6<272 then node 8 elseif x6>=272 then node 9 else 1
5  if x7<23.35 then node 10 elseif x7>=23.35 then node 11 else 0
6  if x3<17.5 then node 12 elseif x3>=17.5 then node 13 else 0
7  if x3<3.5 then node 14 elseif x3>=3.5 then node 15 else 0
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11 if x5<0.5 then node 20 elseif x5>=0.5 then node 21 else 0
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15 if x6<1840 then node 26 elseif x6>=1840 then node 27 else 0
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26 if x6<1593 then node 38 elseif x6>=1593 then node 39 else 0
27 if x14<0.5 then node 40 elseif x14>=0.5 then node 41 else 0
28 class = 0
29 if x19<0.5 then node 42 elseif x19>=0.5 then node 43 else 1
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31 class = 1
32 if x6<345668 then node 44 elseif x6>=345668 then node 45 else 1
33 class = 1
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35 if x7<98.7521 then node 46 elseif x7>=98.7521 then node 47 else 1
36 if x3<28.5 then node 48 elseif x3>=28.5 then node 49 else 0
37 class = 1
38 class = 0
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40 if x3<13 then node 50 elseif x3>=13 then node 51 else 0
41 if x3<37 then node 52 elseif x3>=37 then node 53 else 0
42 if x6<11709.5 then node 54 elseif x6>=11709.5 then node 55 else 1
43 class = 1
44 if x7<8.0396 then node 56 elseif x7>=8.0396 then node 57 else 1
45 if x6<347080 then node 58 elseif x6>=347080 then node 59 else 0

```

```
46 if x3<49.5 then node 60 elseif x3>=49.5 then node 61 else 1
47 if x7<387.665 then node 62 elseif x7>=387.665 then node 63 else 0
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105 if x3<29.5 then node 116 elseif x3>=29.5 then node 117 else 0
106 class = 1
107 class = 0
108 class = 0
109 class = 1
110 if x7<7.74585 then node 118 elseif x7>=7.74585 then node 119 else 0
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112 class = 1
113 class = 0
114 if x6<237682 then node 122 elseif x6>=237682 then node 123 else 0
115 class = 0
116 if x3<28.75 then node 124 elseif x3>=28.75 then node 125 else 0
117 if x6<2680 then node 126 elseif x6>=2680 then node 127 else 0
118 if x6<19270 then node 128 elseif x6>=19270 then node 129 else 0
119 class = 0
120 if x3<26.5 then node 130 elseif x3>=26.5 then node 131 else 0
121 if x3<19.5 then node 132 elseif x3>=19.5 then node 133 else 0
122 class = 0
123 class = 1
124 class = 0
125 class = 1
126 if x6<2675.5 then node 134 elseif x6>=2675.5 then node 135 else 0
127 class = 0
128 class = 0
129 if x7<7.0125 then node 136 elseif x7>=7.0125 then node 137 else 0
130 if x13<0.5 then node 138 elseif x13>=0.5 then node 139 else 0
131 if x7<8.08125 then node 140 elseif x7>=8.08125 then node 141 else 0
132 class = 1
133 class = 0
134 class = 0
135 class = 1
136 if x7<6.9625 then node 142 elseif x7>=6.9625 then node 143 else 0
137 class = 0
138 class = 0
139 class = 1
140 class = 0
141 if x7<10 then node 144 elseif x7>=10 then node 145 else 0
142 class = 0
143 class = 1
144 if x3<27.5 then node 146 elseif x3>=27.5 then node 147 else 0
145 if x6<244366 then node 148 elseif x6>=244366 then node 149 else 0
146 class = 1
147 class = 0
148 class = 0
149 if x4<1.5 then node 150 elseif x4>=1.5 then node 151 else 0
150 if x6<246550 then node 152 elseif x6>=246550 then node 153 else 0
151 class = 1
152 class = 1
153 class = 0
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```
>> view(a,'mode','graph')
```

```
>> predict(a,Xtest)
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ans =
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```
>> B=fitensemble(X,Y,'AdaBoostM1',100,'tree');
>> predict(B,Xtest)
```

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ans =
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```
>> B=fitensemble(X,Y,'TotalBoost',200,'tree');
>> predict(B,Xtest)
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```
>> output
Undefined function or variable 'output'.
```

```
>> publish
Error using publish (line 87)
Not enough input arguments.
```

```
>> publish(script.m)
Undefined variable "script" or function "script.m".
```

```
>> publish(script)
```

Attempt to execute SCRIPT script as a function:
/Applications/MATLAB_R2014b.app/toolbox/matlab/lang/script.m

>> pwd

ans =

/Users/sidichang/Documents/Summer-hw4

>>