Chapter 01 Importing Data for Analysis



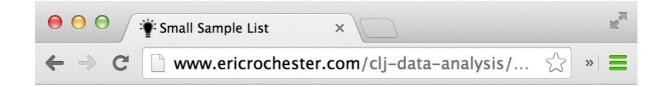
A Header

This contains a bunch of people.

Tonight we're going to code HTML like it's 1999!

Given Name	Surname	Relation
Gomez	Addams	father
Morticia	Addams	mother
Pugsley	Addams	brother
Wednesday	Addams	sister
Pubert	Addams	brother
Fester	Addams	uncle
Grandmama		grandmother
Thing		hand
Lurch		butler
Itt		cousin
Cackle		cousin
	Gomez Morticia Pugsley Wednesday Pubert Fester Grandmama Thing Lurch Itt	Morticia Addams Pugsley Addams Wednesday Addams Pubert Addams Fester Addams Grandmama Thing Lurch Itt

Something here. More links here.



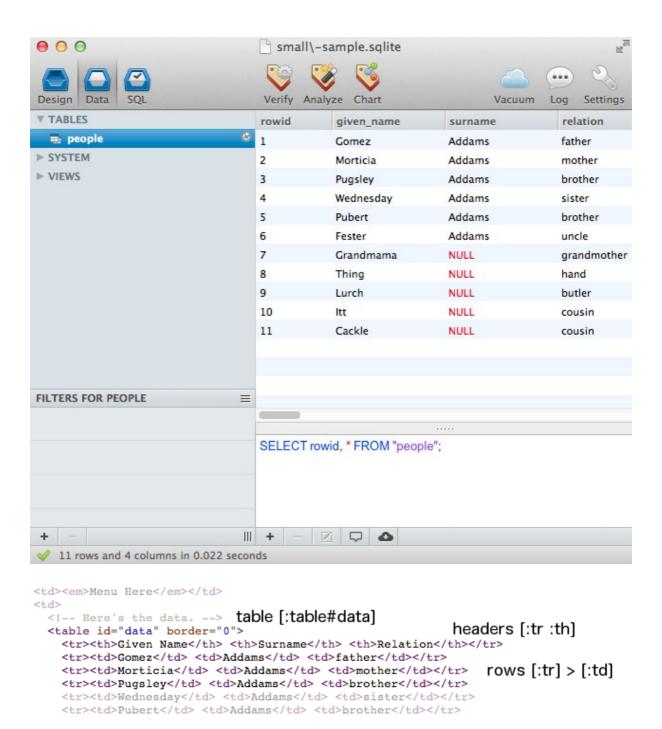
Small Sample List

- Section 1
- Section 2
- Section 3

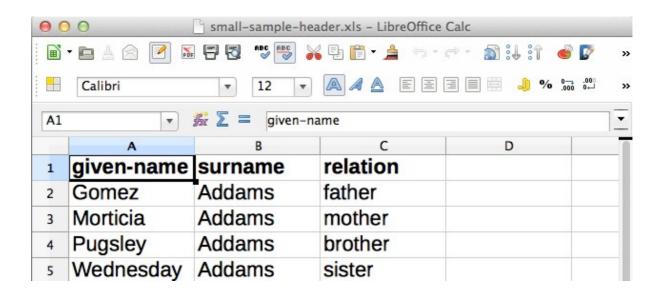
Addam's Family

Here's some information about the Addam's Family.

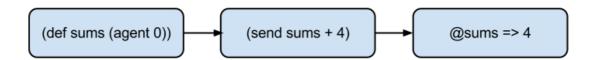
- Gomez Addams father
- *Morticia Addams* mother
- Pugsley Addams brother
- Wednesday Addams sister
- Pubert Addams brother
- Fester Addams uncle
- Grandmama grandmother
- Thing hand
- Lurch butler
- Cousin Itt cousin
- Cousin Cackle cousin

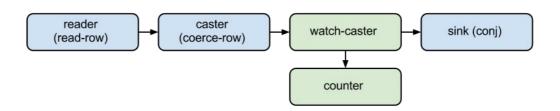


```
<article>
 <header>
   <h2 id='addams'>Addam's Family</h2> qet-family
 </header>
 Here's some information about the Addam's Family.
 ul>
   <em>Gomez Addams</em> &mdash; father
                                             get-rows
   <em>Morticia Addams</em> &mdash; mother
   <em>Pugsley Addams</em> &mdash; brother
   <em>Wednesday Addams</em> &mdash; sister
   <em>Pubert Addams</em> &mdash; brother
   <em>Fester Addams</em> &mdash; uncle
   <em>Grandmama</em> &mdash; grandmother
   <em>Thing</em> &mdash; hand
   <em>Lurch</em> &mdash; butler
   <em>Cousin Itt</em> &mdash; cousin
   <em>Cousin Cackle</em> &mdash; cousin
 get-person
</article>
```

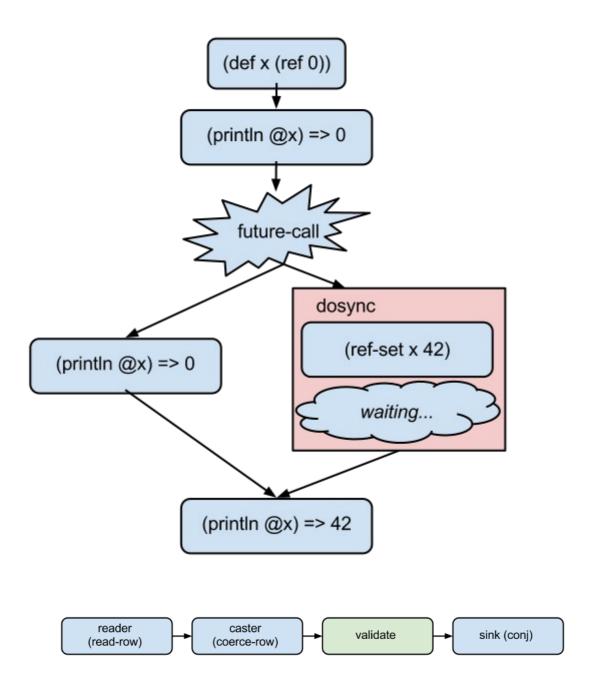


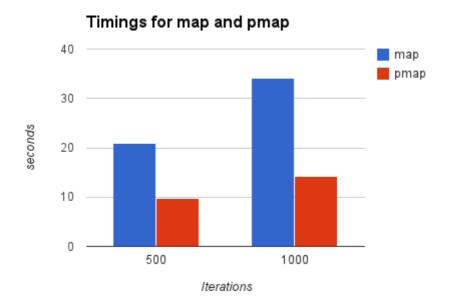
Chapter 3, Managing Complexity with Concurrent Programming

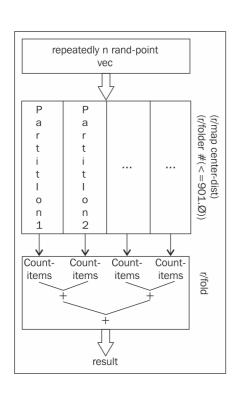




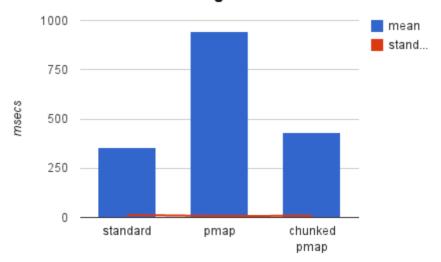
	Α	В	С	D	E	F	G	Н	1	J	К
1	GEOID	SUMLEV	STATE	COUNTY	CBSA	CSA	NECTA	CNECTA	NAME	POP100	HU100
2	5100148	160	51						Abingdon town	8191	4271
3	5100180	160	51						Accomac town	519	229
4	5100724	160	51						Alberta town	298	163
5	5101000	160	51						Alexandria city	139966	72376
6	5101256	160	51						Allisonia CDP	117	107

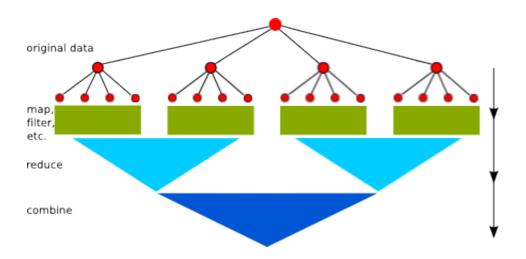


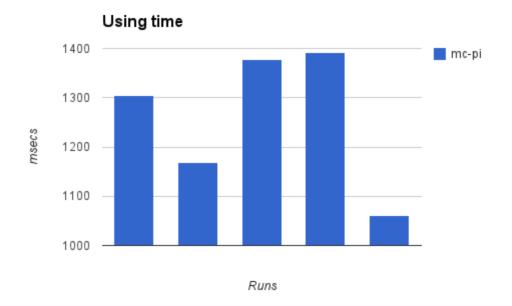


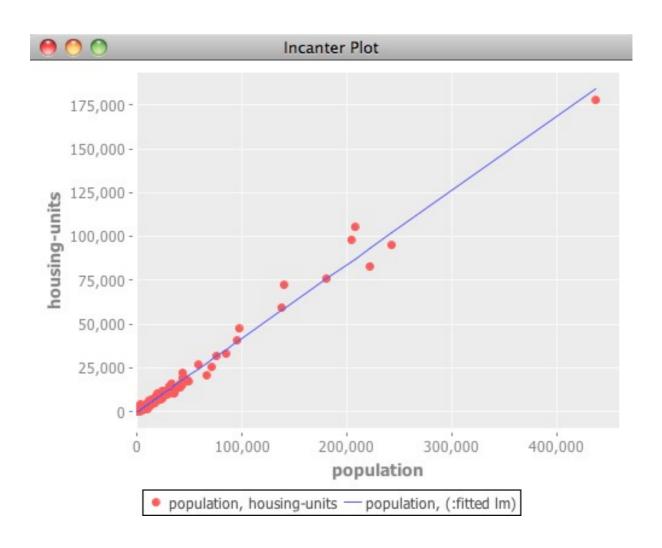


Monte Carlo timings

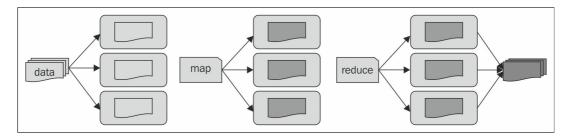








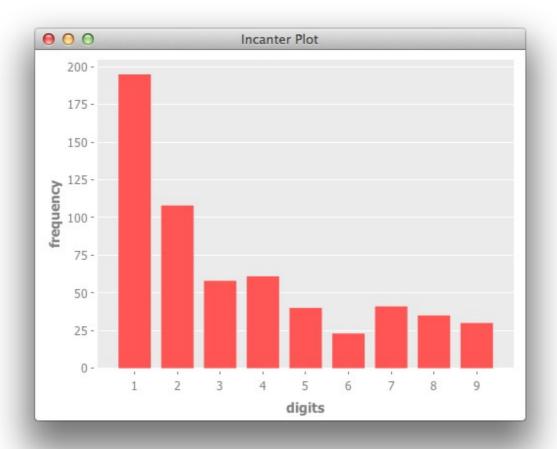
Chapter 5, Distributed Data Processing with Cascalog

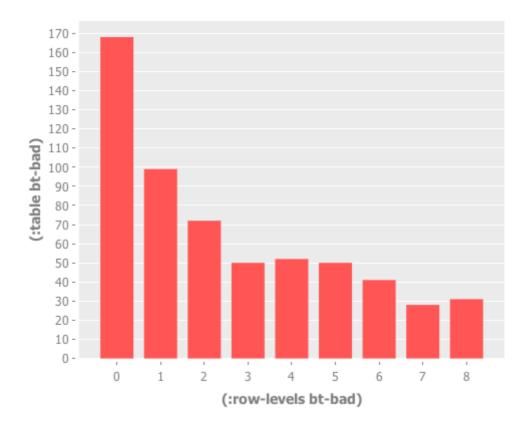


Chapter 6, Working with Incanter Datasets

		Incanter Data		
:Sepal.Leng	:Sepal.Width	:Petal.Length	:Petal.Width	:Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa
4.6	3.4	1.4	0.3	setosa
5.0	3.4	1.5	0.2	setosa
4.4	2.9	1.4	0.2	setosa

Chapter 7, Statistical Data Analysis with Incanter





(i/\$rollup :mean :POP100 :STATE census)

Input dataset census

:STATE :NAME :P0P100 6 Ashland CDP 21925 6 San Bernardino city 209924 6 Trinidad city 367 36 Smallwood CDP 580 36 North Babylon CDP 17509 36 Pleasant Valley CDP 1145 2063 36 Upper Nyack village 51 Crosspointe CDP 5802 51 Flint Hill CDP 209

Group by : STATE

6 :STATE :NAME :POP100
6 Ashland CDP 21925
6 San Bernardino city 209924
6 Trinidad city 367

36

:STATE	: NAME	:P0P100
36	Smallwood CDP	580
36	North Babylon CDP	17509
36	Pleasant Valley CDP	1145
36	Upper Nyack village	2063

51

:STATE	: NAME	:P0P100
51	Crosspointe CDP	5802
51	Flint Hill CDP	209

Extract :P0P100 6

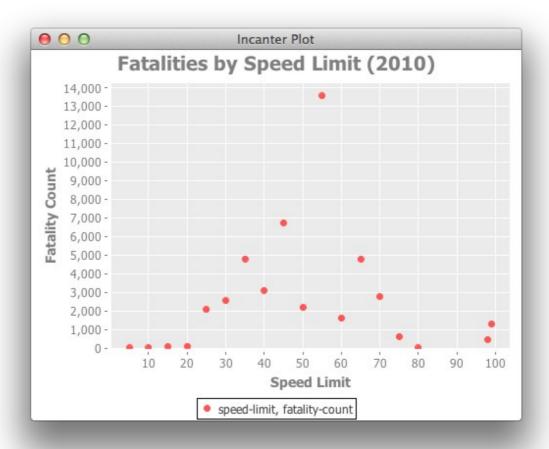
Rollup with :mean

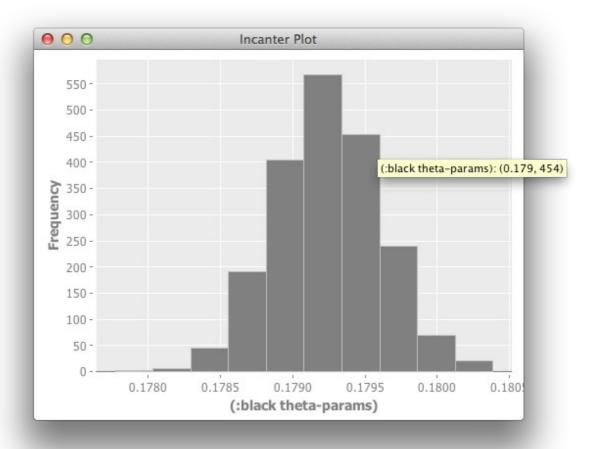
6 :mean 232216/3

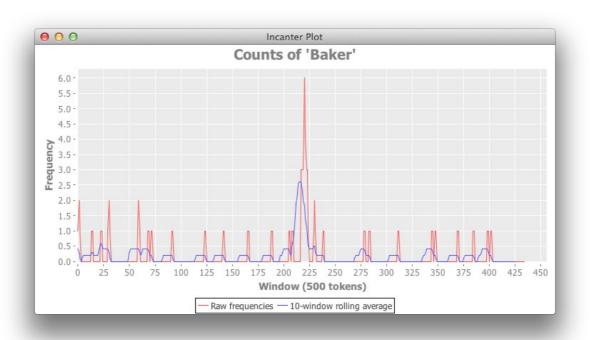
36 :mean 21297/4

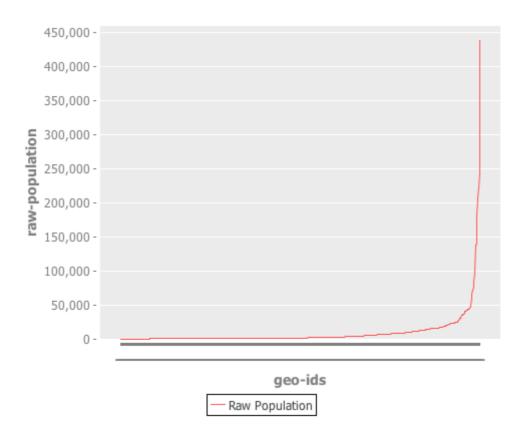
51 :mean 6011/2

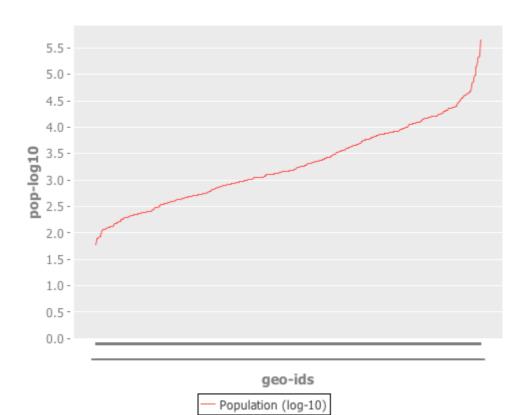


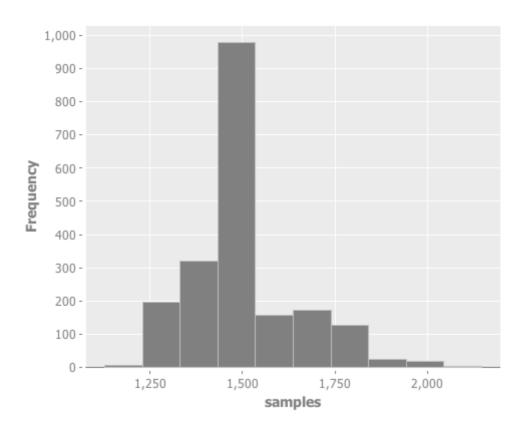


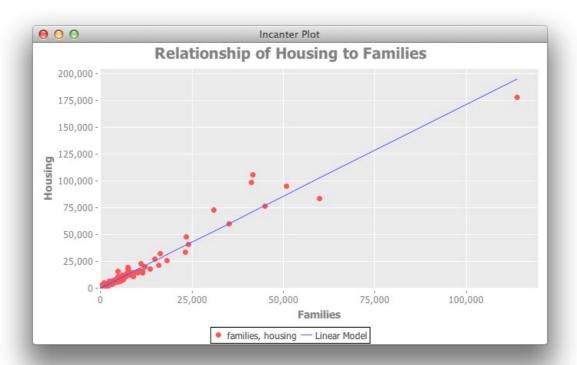


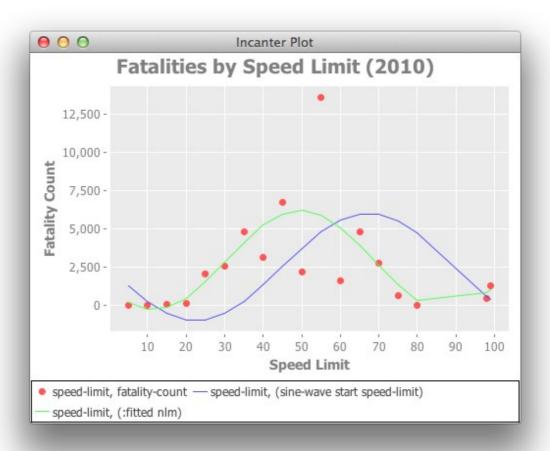




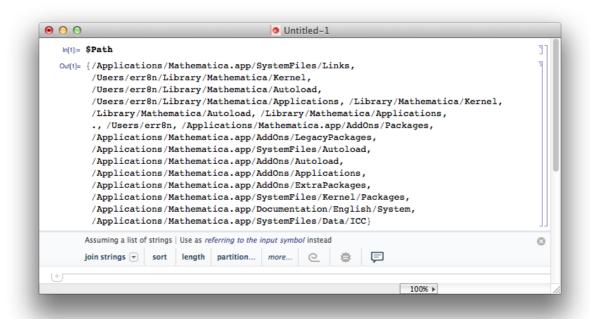


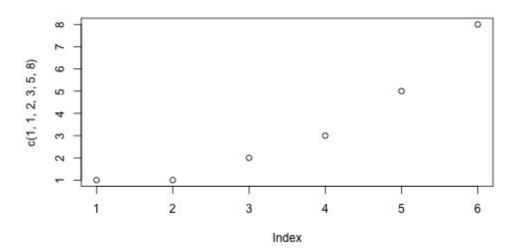




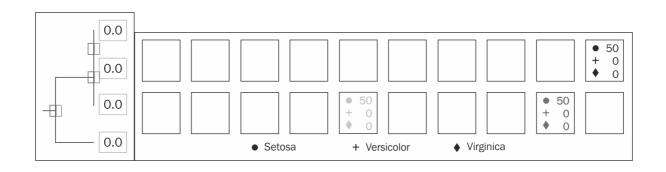


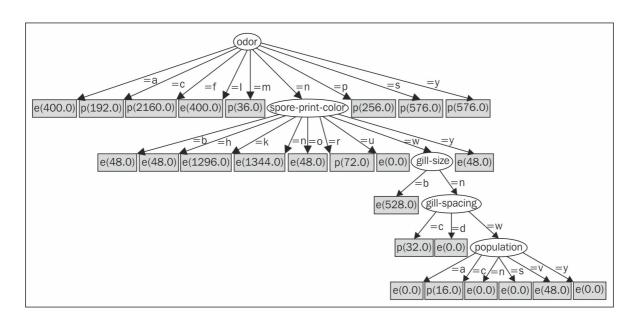
Chapter 8, Working with Mathematica and R,

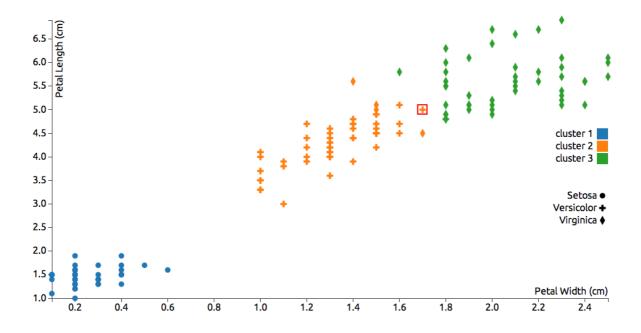


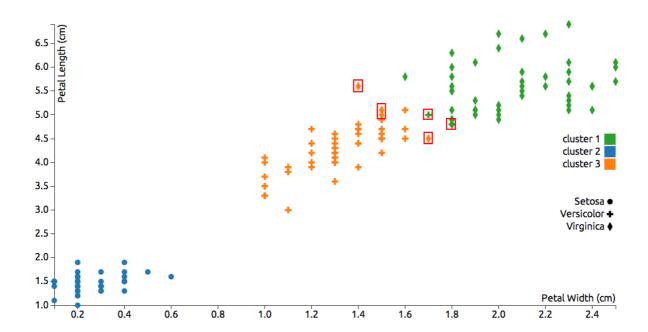


Chapter 9, Clustering, Classifying, and Working with Weka



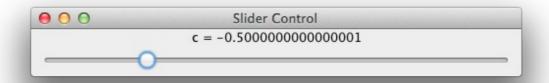


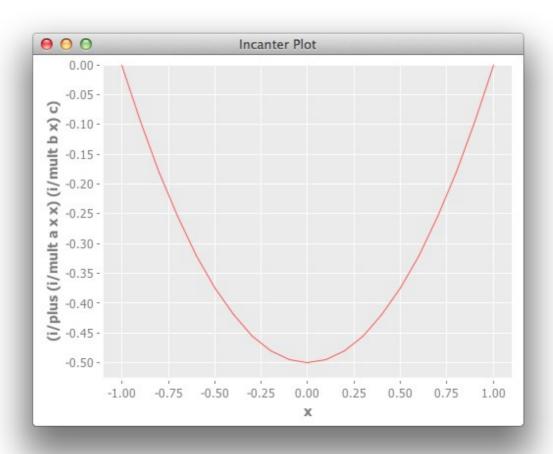


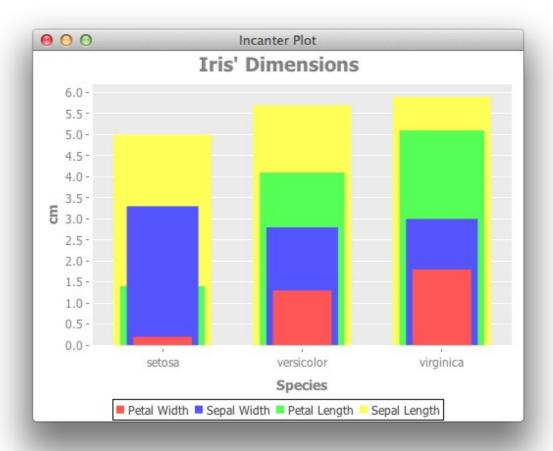


Chapter 10, Working with Unstructured and Textual Data

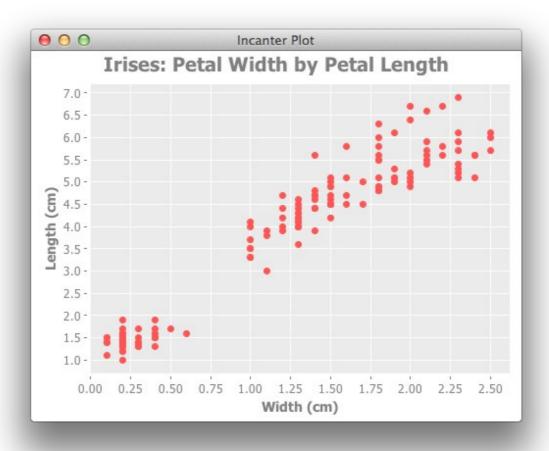
$$tf(t,d) = 0.5 + \frac{0.5 \times f(t,d)}{\max\{f(w,d) : w \in d\}}$$
$$idf(t,D) = \log \frac{N}{\left| \{d \in D : t \in d\} \right|}$$
$$tfidf(t,d,D) = tf(t,d) \times idf(t,D)$$

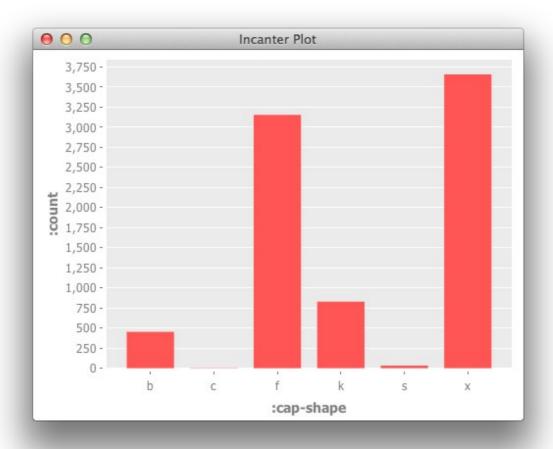


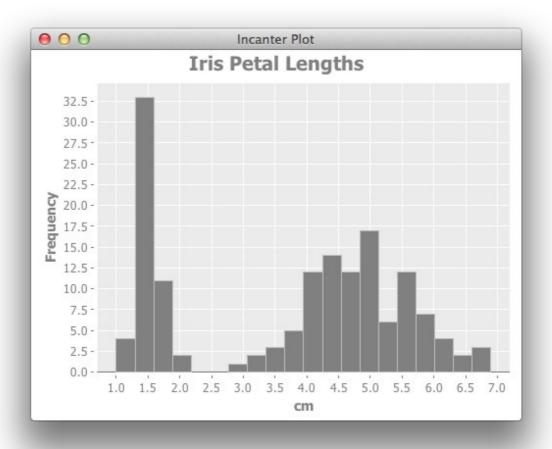




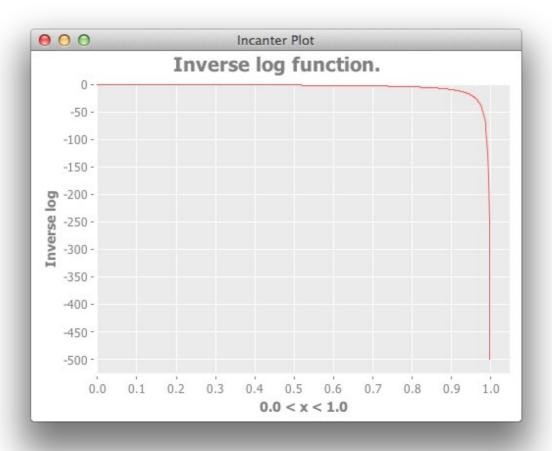


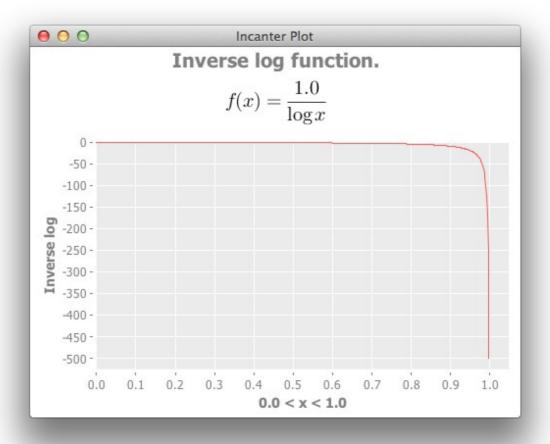




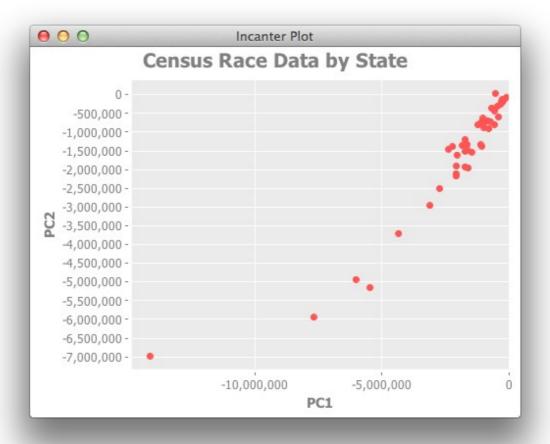


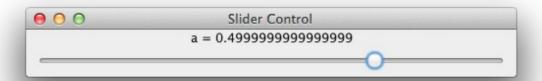


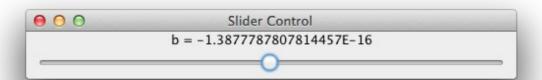




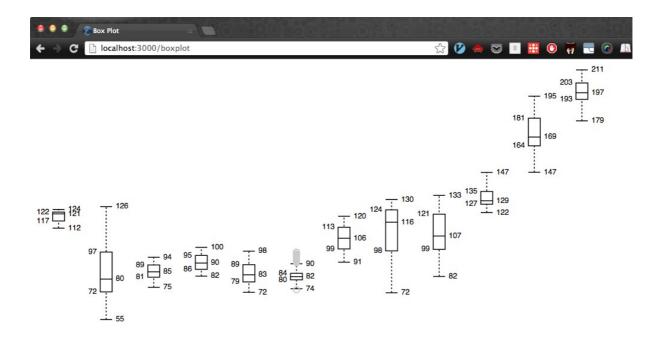




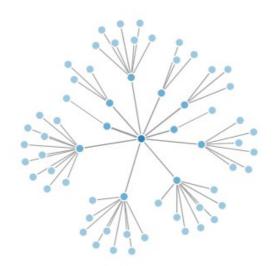




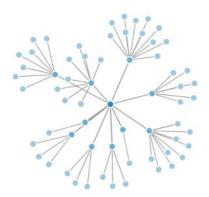
Chapter 12, Creating Charts for the Web











New York

Total

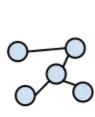
19378102 (2000: 18976457) 193/8102 [2005] White 12740974 (2000: 12893689) African-American 3073800 (2000: 3014385) Native American 106906 (2000: 82461)

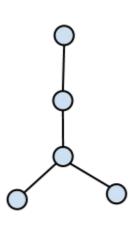
1420244 (2000: 1044976)

8766 (2000: 8818)

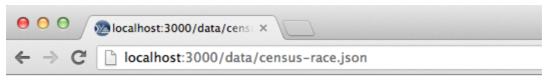
Other

1441563 (2000: 1341946) Multi-racial 585849 (2000: 590182)









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Web Charts

1. 2010 Census Race Data

