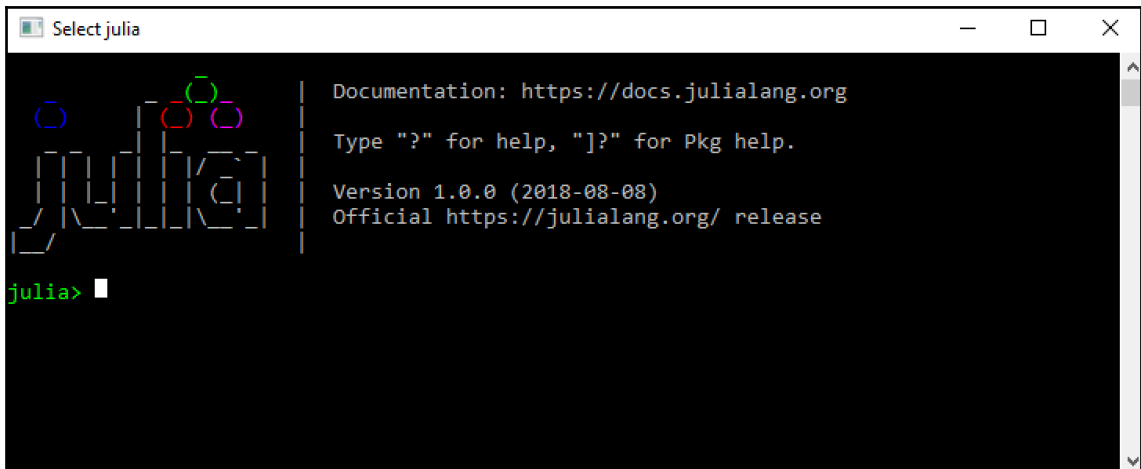
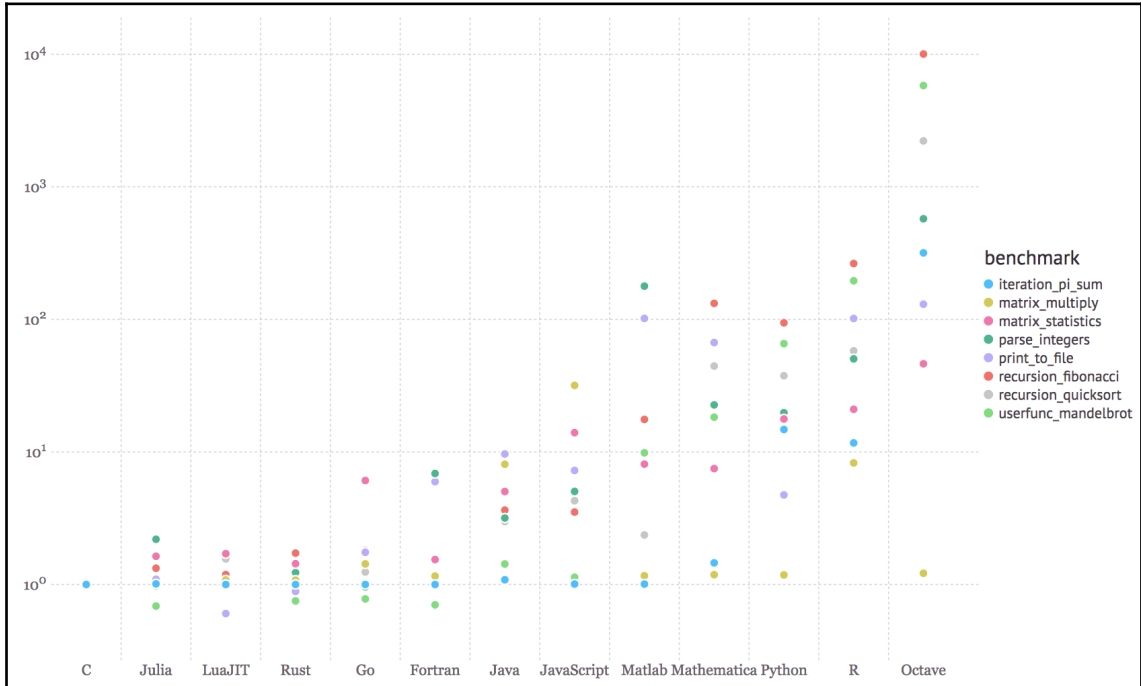


Chapter 1: Getting Started with Julia Programming



```
Documentation: https://docs.julialang.org
Type "?" for help, "]"? for Pkg help.
Version 1.0.0 (2018-08-08)
Official https://julialang.org/ release

julia> █
```

```
==> Installing Cask julia
==> Moving App 'Julia-1.0.app' to '/Applications/Julia-1.0.app'.
==> Linking Binary 'julia' to '/usr/local/bin/julia'.
📦 julia was successfully installed!
~> julia

Documentation: https://docs.julialang.org
Type "?" for help, "]"? for Pkg help.
Version 1.0.0 (2018-08-08)
Official https://julialang.org/ release

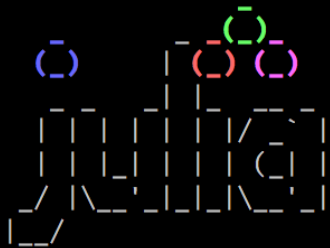
julia> █
```

```
~> docker run -it --rm julia

Documentation: https://docs.julialang.org
Type "?" for help, "]"? for Pkg help.
Version 1.0.0 (2018-08-08)
Official https://julialang.org/ release

julia> █
```

~ julia



Documentation: <https://docs.julialang.org>

Type "?" for help, "]"? for Pkg help.

Version 1.0.0 (2018-08-08)

Official <https://julialang.org/> release

julia> █

```
help?> Profile.print
WARNING: Base.Profile is deprecated, run `using Profile` instead
in module Main
WARNING: Base.Profile is deprecated, run `using Profile` instead
in module Main
print([io::IO = stdout,] [data::Vector]; kwargs...)

Prints profiling results to io (by default, stdout). If you do not supply a data vector, the internal buffer of
accumulated backtraces will be used.

The keyword arguments can be any combination of:

• format - Determines whether backtraces are printed with (default, :tree) or without (:flat) indentation
indicating tree structure.

• C - If true, backtraces from C and Fortran code are shown (normally they are excluded).

• combine - If true (default), instruction pointers are merged that correspond to the same line of code.

• maxdepth - Limits the depth higher than maxdepth in the :tree format.

• sortedby - Controls the order in :flat format. :filefuncline (default) sorts by the source line, whereas
:count sorts in order of number of collected samples.

• noisefloor - Limits frames that exceed the heuristic noise floor of the sample (only applies to format
:tree). A suggested value to try for this is 2.0 (the default is 0). This parameter hides samples for
which  $n \leq \text{noisefloor} * \sqrt{N}$ , where n is the number of samples on this line, and N is the number of
samples for the callee.

• mincount - Limits the printout to only those lines with at least mincount occurrences.
```

```
print([io::IO = stdout,] data::Vector, lidict::LineInfoDict; kwargs...)

Prints profiling results to io. This variant is used to examine results exported by a previous call to retrieve.
Supply the vector data of backtraces and a dictionary lidict of line information.

See Profile.print([io], data) for an explanation of the valid keyword arguments.
```

```
@time
```

A macro to execute an expression, printing the time it took to execute, the number of allocations, and the total number of bytes its execution caused to be allocated, before returning the value of the expression.

See also `@timev`, `@timed`, `@elapsed`, and `@allocated`.

```
julia> @time rand(10^6);
0.001525 seconds (7 allocations: 7.630 MiB)

julia> @time begin
    sleep(0.3)
    1+1
end
0.301395 seconds (8 allocations: 336 bytes)
2
```

```
search: IO IOStream IOBuffer IOContext fdio Union union union! UnionAll options Rational RadioMenu rationalize
```

No documentation found.

Summary

```
=====
```

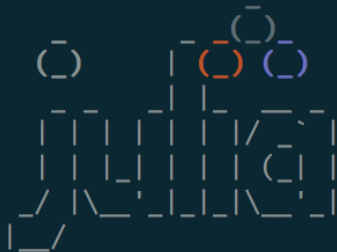
abstract type IO <: Any

Subtypes

```
=====
```

```
Base.AbstractPipe
Base.DevNullStream
Base.Filesystem.AbstractFile
Base.GenericIOBuffer
Base.LibuvStream
Base.SecretBuffer
Base64.Base64DecodePipe
Base64.Base64EncodePipe
Core.CoreSTDERR
Core.CoreSTDOUT
IOStream
Mmap.Anonymous
```

Welcome to Julia!



Documentation: <https://docs.julialang.org>

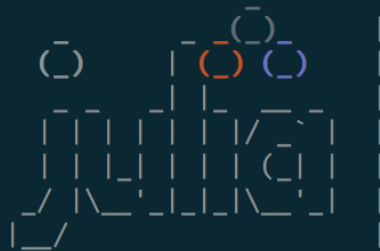
Type "?" for help, "]"? for Pkg help.

Version 1.0.0 (2018-08-08)

Official <https://julialang.org/> release

```
julia> █
```

Welcome to Julia!



Documentation: <https://docs.julialang.org>

Type "?" for help, "?>" for Pkg help.

Version 1.0.0 (2018-08-08)

Official <https://julialang.org/> release

And welcome to you too!

julia> █

```
julia> fun(x) = 2 + 3x * (3 / 2)
fun (generic function with 1 method)
```

```
julia> fun(x) = 2 + 3x * (3 / 2)
fun (generic function with 1 method)
```

Chapter 2: Creating Our First Julia App

```
" " "  
    ──┘───┘───┘ Hello  
    ──┘───┘ Look  
    ──┘ Here " " "  
  
"\t\tHello\n\t\tLook\n\t\tHere"
```

Row	Package	Dataset	Title	Rows	Columns
1	COUNT	affairs	affairs	601	18
2	COUNT	azdrg112	azdrg112	1798	4
3	COUNT	azpro	azpro	3589	6
4	COUNT	badhealth	badhealth	1127	3
5	COUNT	fasttrakg	fasttrakg	15	9
6	COUNT	lbw	lbw	189	10
7	COUNT	lbwgrp	lbwgrp	6	7
8	COUNT	loomis	loomis	410	11
9	COUNT	mdvis	mdvis	2227	13
10	COUNT	medpar	medpar	1495	10
11	COUNT	rwm	rwm	27326	4
12	COUNT	rwm5yr	rwm5yr	19609	17
13	COUNT	ships	ships	40	7
14	COUNT	titanic	titanic	1316	4
15	COUNT	titanicgrp	titanicgrp	12	5
16	Ecdat	Accident	Ship Accidents	40	5
17	Ecdat	Airline	Cost for U.S. Airlines	90	6
18	Ecdat	Airq	Air Quality for Californian Metropolitan Areas	30	6
19	Ecdat	Benefits	Unemployment of Blue Collar Workers	4877	18
20	Ecdat	Bids	Bids Received By U.S. Firms	126	12

150×5 DataFrame

Row	SepalLength	SepalWidth	PetalLength	PetalWidth	Species
1	5.1	3.5	1.4	0.2	setosa
2	4.9	3.0	1.4	0.2	setosa
3	4.7	3.2	1.3	0.2	setosa
4	4.6	3.1	1.5	0.2	setosa
5	5.0	3.6	1.4	0.2	setosa
6	5.4	3.9	1.7	0.4	setosa
7	4.6	3.4	1.4	0.3	setosa
8	5.0	3.4	1.5	0.2	setosa
9	4.4	2.9	1.4	0.2	setosa
10	4.9	3.1	1.5	0.1	setosa

6×5 DataFrame

Row	SepalLength	SepalWidth	PetalLength	PetalWidth	Species
1	5.1	3.5	1.4	0.2	setosa
2	4.9	3.0	1.4	0.2	setosa
3	4.7	3.2	1.3	0.2	setosa
4	4.6	3.1	1.5	0.2	setosa
5	5.0	3.6	1.4	0.2	setosa
6	5.4	3.9	1.7	0.4	setosa

10×5 DataFrame

Row	SepalLength	SepalWidth	PetalLength	PetalWidth	Species
1	6.7	3.1	5.6	2.4	virginica
2	6.9	3.1	5.1	2.3	virginica
3	5.8	2.7	5.1	1.9	virginica
4	6.8	3.2	5.9	2.3	virginica
5	6.7	3.3	5.7	2.5	virginica
6	6.7	3.0	5.2	2.3	virginica
7	6.3	2.5	5.0	1.9	virginica
8	6.5	3.0	5.2	2.0	virginica
9	6.2	3.4	5.4	2.3	virginica
10	5.9	3.0	5.1	1.8	virginica

3x2 DataFrame

Row	Species	x1
1	setosa	50
2	versicolor	50
3	virginica	50

5x8 DataFrame

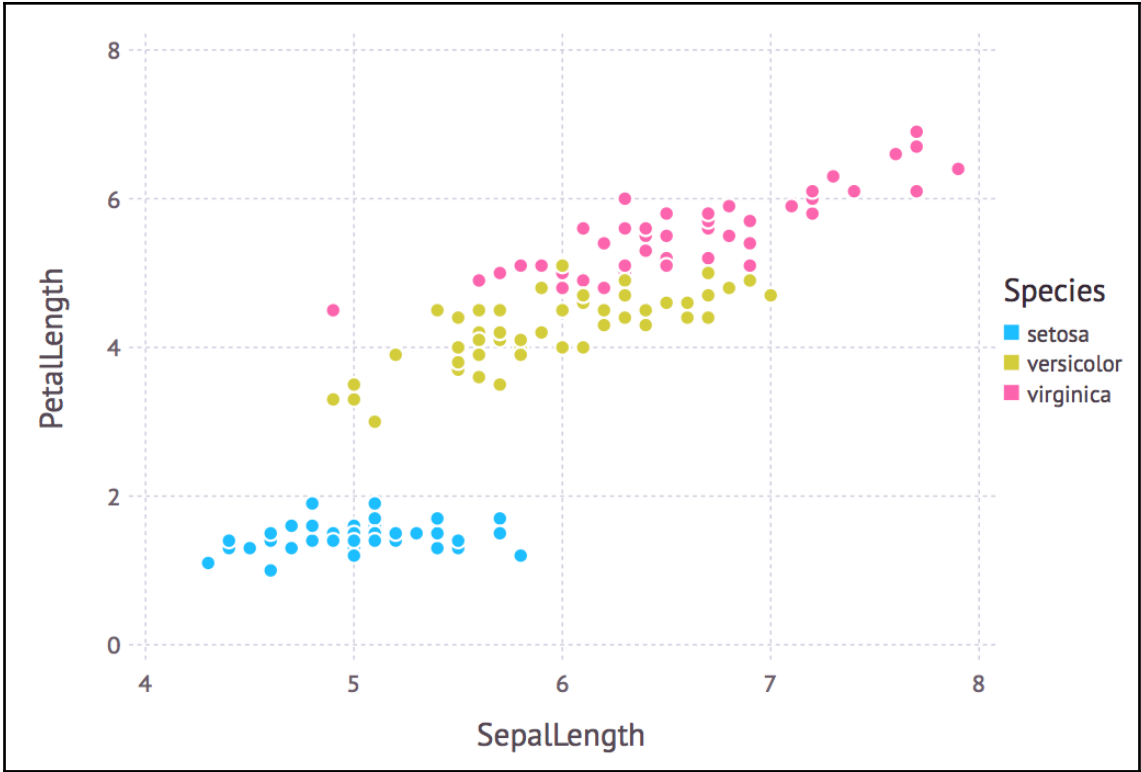
Row	variable	mean	min	median	max	nunique	nmissing	eltype
1	SepalLength	5.84333	4.3	5.8	7.9			Float64
2	SepalWidth	3.05733	2.0	3.0	4.4			Float64
3	PetalLength	3.758	1.0	4.35	6.9			Float64
4	PetalWidth	1.19933	0.1	1.3	2.5			Float64
5	Species		setosa		virginica	3		CategoricalString{UInt8}

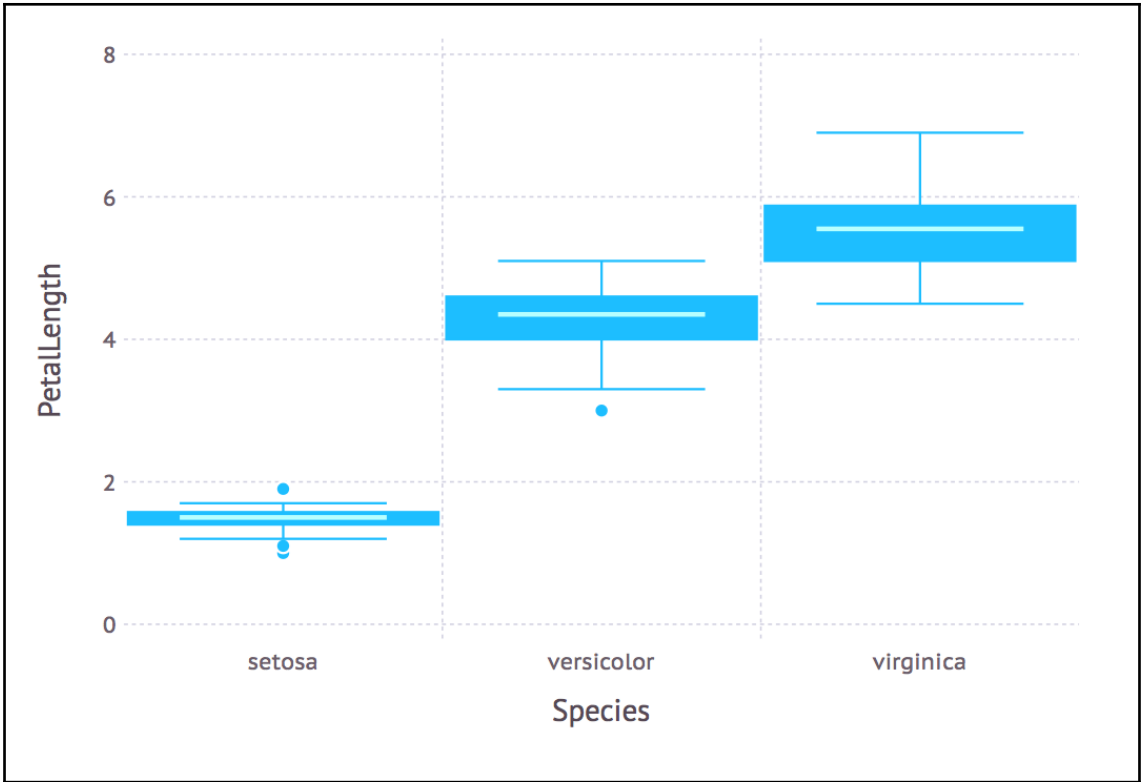
5x5 DataFrame

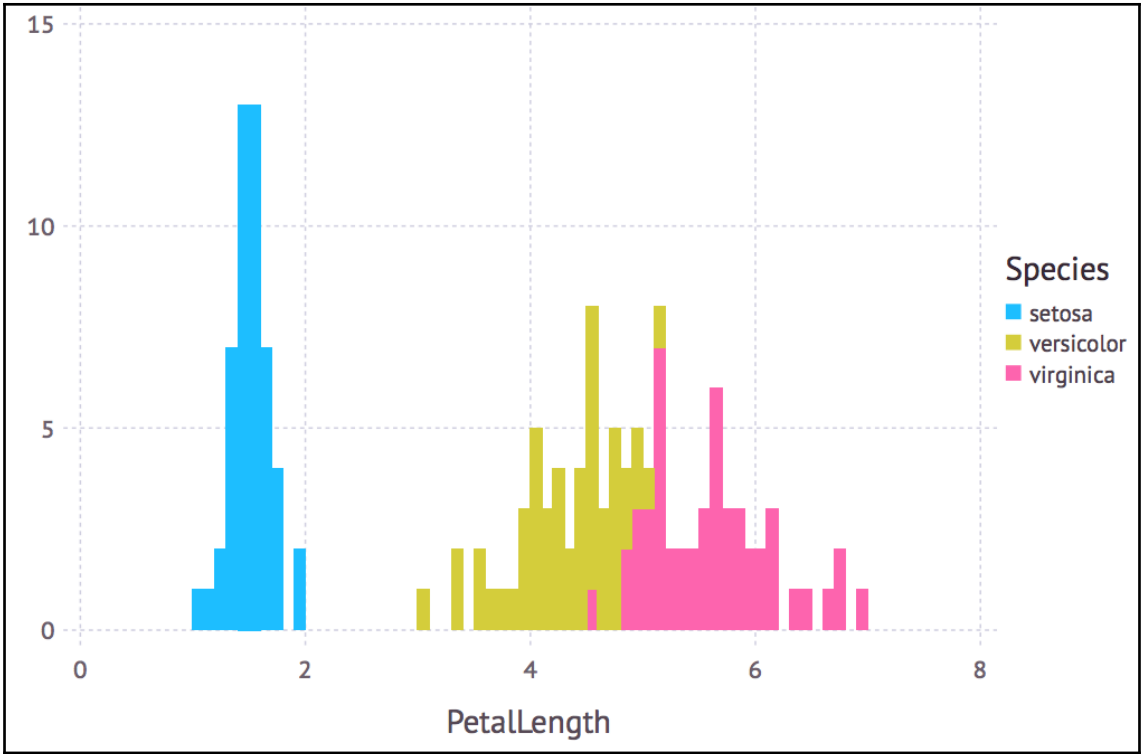
Row	variable	q25	q75	first	last
1	SepalLength	5.1	6.4	5.1	5.9
2	SepalWidth	2.8	3.3	3.5	3.0
3	PetalLength	1.6	5.1	1.4	5.1
4	PetalWidth	0.3	1.8	0.2	1.8
5	Species			setosa	virginica

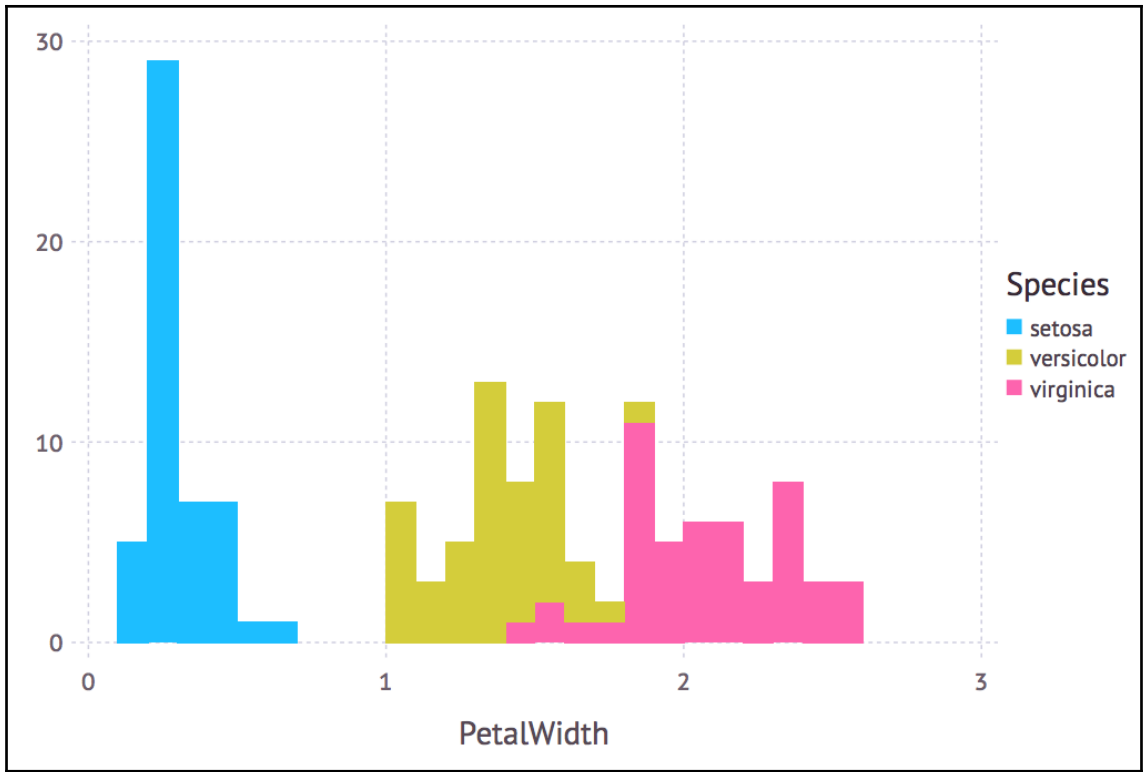
5x13 DataFrame

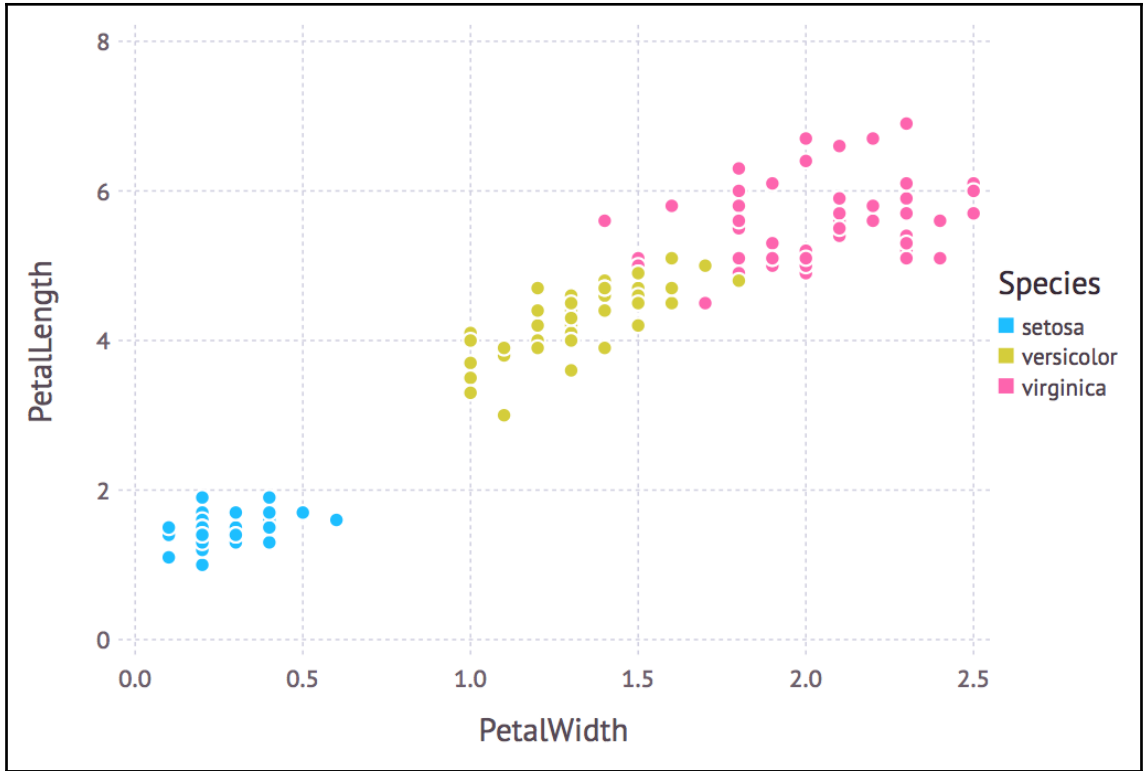
Row	variable	mean	std	min	q25	median	q75	max	nunique	nmissing	first	last	eltype
1	SepalLength	5.84333	0.828866	4.3	5.1	5.8	6.4	7.9			5.1	5.9	Float64
2	SepalWidth	3.05733	0.435866	2.0	2.8	3.0	3.3	4.4			3.5	3.0	Float64
3	PetalLength	3.758	1.7653	1.0	1.6	4.35	5.1	6.9			1.4	5.1	Float64
4	PetalWidth	1.19933	0.762238	0.1	0.3	1.3	1.8	2.5			0.2	1.8	Float64
5	Species			setosa				virginica	3		setosa	virginica	CategoricalString{UInt8}











Chapter 3: Setting Up the Wiki Game

Julia (programming language)

Language features

According to the official website, the main features of the language are:

- Multiple dispatch
- Dynamic type
- Good performance

External links [edit]

- [Official website](#)
- [The Julia manual](#)
- [Julia Package Listing](#) – a searchable listing of all (currently over 1500 with combined over 30,000 [GitHub stars](#)) *registered packages*

Language features [edit]

According to the official website, the main features of the language are:

- **Multiple dispatch**: providing ability to define function behavior across many combinations of argument types
- **Dynamic type** system: types for documentation, optimization, and dispatch
- Good performance, approaching that of **statically-typed** languages like C

```
julia> HTTP.get("https://en.wikipedia.org/wiki/Julia_(programming_language)")
HTTP.Messages.Response:
"""
HTTP/1.1 200 OK
Date: Mon, 17 Sep 2018 10:35:38 GMT
Content-Type: text/html; charset=UTF-8
Content-Length: 193324
Connection: keep-alive
Server: mw2174.codfw.wmnet
Vary: Accept-Encoding, Cookie, Authorization
X-Content-Type-Options: nosniff
P3P: CP="This is not a P3P policy! See https://en.wikipedia.org/wiki/Special:CentralAutoLogin/P3P for more info."
X-Powered-By: HHVM/3.18.6-dev
Content-language: en
Last-Modified: Sun, 16 Sep 2018 06:23:32 GMT
Backend-Timing: D=94531 t=1537079074050651
X-Varnish: 343909603 326005351, 885580661 879616280, 1013404048 653558799
Via: 1.1 varnish (Varnish/5.1), 1.1 varnish (Varnish/5.1), 1.1 varnish (Varnish/5.1)
Age: 18448
X-Cache: cp2016 hit/5, cp3030 hit/2, cp3042 hit/26
X-Cache-Status: hit-front
Strict-Transport-Security: max-age=106384710; includeSubDomains; preload
Set-Cookie: WMF-Last-Access=17-Sep-2018; Path=/; HttpOnly; secure; Expires=Fri, 19 Oct 2018 00:00:00 GMT
Set-Cookie: WMF-Last-Access-Global=17-Sep-2018; Path=/; Domain=.wikipedia.org; HttpOnly; secure; Expires=Fri, 19 Oct 2018 00:00:00 GMT
X-Analytics: ns=0; page_id=38455554; https=1; nocookies=1
X-Client-IP: 83.51.206.212
Cache-Control: private, s-maxage=0, max-age=0, must-revalidate
Set-Cookie: GeoIP=ES:CT:Sitges:41.24:1.81:v4; Path=/; secure; Domain=.wikipedia.org
Accept-Ranges: bytes

<!DOCTYPE html>
<html class="client-nojs" lang="en" dir="ltr">
<head>
<meta charset="UTF-8"/>
<title>Julia (programming language) - Wikipedia</title>
<script>document.documentElement.className = document.documentElement.className.replace( /(^|\s)client-nojs(\s|$)/, "$1client-js$2" );</script>
<script>(window.RLQ=window.RLQ|| []).push(function(){mw.config.set({"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":false,"wgNamespaceNumber":0,"wgPageName":"Julia_(programming_language)","wgTitle":"Julia (programming language)","wgCurRevisionId":859773913,"wgRevisionId":859773913,"wgArticleId":38455554,"wgIsArticle":true,"wgIsRedirect":false,"wgAction":"view","wgUserName":null,"wgUserGroups":["*"],"wgCategories":["CS1 maint: Multiple names: authors list","Use dmy dates from October 2015","Official website different in Wikidata and Wikipedia","2012 software","Array programming languages","Computational notebook","Data mining and machine learning software","Data-centric programming languages"]});
193324-byte body
"""
```

```

25-element Array{Pair{SubString{String},SubString{String}},1}:
  "Date" ⇒ "Mon, 17 Sep 2018 11:02:39 GMT"
  "Content-Type" ⇒ "text/html; charset=UTF-8"
  "Content-Length" ⇒ "193324"
  "Connection" ⇒ "keep-alive"
  "Server" ⇒ "mw2174.codfw.wmnet"
  "Vary" ⇒ "Accept-Encoding, Cookie, Authorization"
  "X-Content-Type-Options" ⇒ "nosniff"
  "P3P" ⇒ "CP= \"This is not a P3P policy! See https://en.wikipedia.org/wiki/Special:Central
  "X-Powered-By" ⇒ "HHVM/3.18.6-dev"
  "Content-Language" ⇒ "en"
  "Last-Modified" ⇒ "Sun, 16 Sep 2018 06:23:32 GMT"
  "Backend-Timing" ⇒ "D=94531 t=1537079074050651"
  "X-Varnish" ⇒ "343909603 326005351, 885580661 879616280, 2790139 653558799"
  "Via" ⇒ "1.1 varnish (Varnish/5.1), 1.1 varnish (Varnish/5.1), 1.1 varnish (Varnish/5.1)"
  "Age" ⇒ "20069"
  "X-Cache" ⇒ "cp2016 hit/5, cp3030 hit/2, cp3042 hit/29"
  "X-Cache-Status" ⇒ "hit-front"
  "Strict-Transport-Security" ⇒ "max-age=106384710; includeSubDomains; preload"
  "Set-Cookie" ⇒ "WMF-Last-Access=17-Sep-2018; Path=/; HttpOnly; secure; Expires=Fri, 19 Oct 2018 00:00:00 GMT"
  "Set-Cookie" ⇒ "WMF-Last-Access-Global=17-Sep-2018; Path=/; Domain=.wikipedia.org; HttpOnly; secure; Expires=Fri, 19 Oct 2018 00:00:00 GMT"
  "X-Analytics" ⇒ "ns=0; page_id=38455554; https=1; nocookies=1"
  "X-Client-IP" ⇒ "83.51.206.212"
  "Cache-Control" ⇒ "private, s-maxage=0, max-age=0, must-revalidate"
  "Set-Cookie" ⇒ "GeoIP=ES:CT:Sitges:41.24:1.81:v4; Path=/; secure; Domain=.wikipedia.org"
  "Accept-Ranges" ⇒ "bytes"

```

```

<!DOCTYPE html>\n<html class=\"client-nojs\" lang=\"en\" dir=\"ltr\">\n<head>\n<meta charset=\"UTF-8\"/>\n<title>Julia (programming language) - Wikipedia</title>\n<script>document.documentElement.className = document.documentElement.className.replace( /(^|\s)client-nojs(\s|$)/, \"\${1}client-js\${2}\" );</script>\n<script>(window.RLQ=window.RLQ||[]).push(function(){mw.config.set({\"wgCanonicalNamespace\":\"\", \"wgCanonicalSpecialPageName\":false, \"wgNamespaceNumber\":0, \"wgPageName\":\"Julia_(programming_language)\", \"wgTitle\":\"J\"

```

```

1 <!DOCTYPE html>
2 <html class="client-nojs" lang="en" dir="ltr">
3 <head>
4 <meta charset="UTF-8"/>
5 <title>Julia (programming language) - Wikipedia</title>
6 <script>document.documentElement.className =
  document.documentElement.className.replace( /(^|\s)client-nojs(\s|$)/,
  "\${1}client-js\${2}" );</script>
7 <script>(window.RLQ=window.RLQ||[]).push(function()
  {mw.config.set({ "wgCanonicalNamespace": "", "wgCanonicalSpecialPageName": false
  , "wgNamespaceNumber": 0, "wgPageName": "Julia_(programming_language)", "wgTitle"
  : "Julia (programming

```

```

1 <!DOCTYPE html>
2 <html class="client-nojs" lang="en" dir="ltr">

```



```
help?> thermal_comfort
search: thermal_comfort
```

```
thermal_comfort(temperature, humidity; <keyword arguments>)
```

Compute the thermal comfort index based on temperature and humidity. It can optionally take into account the age of the patient. Works for both Celsius and Fahrenheit.

Examples:

```
=====
```

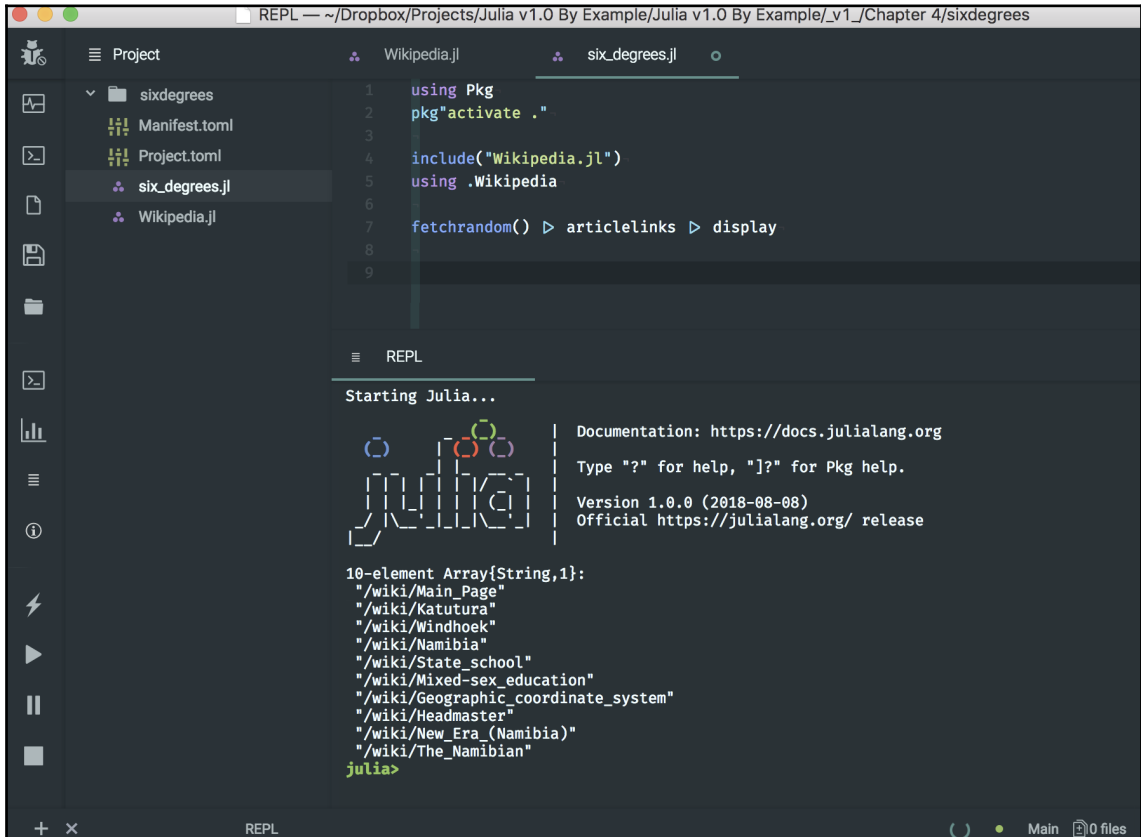
```
julia> thermal_comfort(32, 78)
12
```

Arguments

```
=====
```

- temperature: the current air temperature
- humidity: the current air humidity
- scale: whether :celsius or :fahrenheit, defaults to :celsius
- age: the age of the patient

Chapter 4: Building the Wiki Game Web Crawler



```
REPL — ~/Dropbox/Projects/Julia v1.0 By Example/Julia v1.0 By Example/_v1_/Chapter 4/sixdegrees

Project
├── sixdegrees
│   ├── Manifest.toml
│   ├── Project.toml
│   ├── six_degrees.jl
│   └── Wikipedia.jl
└── Wikipedia.jl
└── six_degrees.jl

1 using Pkg
2 pkg"activate ."
3
4 include("Wikipedia.jl")
5 using .Wikipedia
6
7 fetchrandom() > articlelinks > display
8
9

REPL

Starting Julia...

Documentation: https://docs.julialang.org
Type "?" for help, "]"? for Pkg help.

Version 1.0.0 (2018-08-08)
Official https://julialang.org/ release

10-element Array{String,1}:
"/wiki/Main_Page"
"/wiki/Katutura"
"/wiki/Windhoek"
"/wiki/Namibia"
"/wiki/State_school"
"/wiki/Mixed-sex_education"
"/wiki/Geographic_coordinate_system"
"/wiki/Headmaster"
"/wiki/New_Era_(Namibia)"
"/wiki/The_Namibian"
julia>
```

Pacific Ocean

☆



"North Pacific", "Pacific", and "Pacific region" redirect here. For the region in Colombia, see [Pacific Region, Colombia](#). For other uses, see [North Pacific \(disambiguation\)](#) and [Pacific \(disambiguation\)](#).

The **Pacific Ocean** is the largest and deepest of [Earth's oceanic](#) divisions. It extends from the [Arctic Ocean](#) in the north to the [Southern Ocean](#) (or, depending on definition, to [Antarctica](#)) in the south and is bounded by [Asia](#) and [Australia](#) in the west and the [Americas](#) in the east.

At 165,250,000 square kilometers (63,800,000 square miles) in area (as defined with an Antarctic southern border), this largest division of the [World Ocean](#)—and, in turn, the [hydrosphere](#)—covers about 46% of Earth's water surface and about one-third of its total surface area, making it larger than all of Earth's land area combined.^[1] Both the center of the [Water Hemisphere](#) and the [Western Hemisphere](#) are in the Pacific Ocean. The [equator](#) subdivides it into the **North Pacific Ocean** and **South Pacific Ocean**, with two exceptions: the [Galápagos](#) and [Gilbert Islands](#), while straddling the equator, are deemed wholly within the South Pacific.^[2] Its mean depth is 4,280 meters (14,040 feet). The



```
body,mediawiki.ltr.sitedir-ltr.mw-hi... > div#mw-mf-viewport > div#mw-mf-page-center > div#content.mw-body > div.pre-content.heading-holder > h1#section_0
  <div class="header-container header-chrome">...</div>
  <div id="content" class="mw-body">
    <div class="pre-content heading-holder">
      <div id="page-actions" class="hlist"></div>
      <h1 id="section_0">Pacific Ocean</h1> $0
    </div>
  <div id="bodyContent" class="content">
    <div id="mw-content-text" lang="en" dir="ltr" class="mw-content-ltr">
```

Australia

From Wikipedia, the free encyclopedia

Coordinates: 25°S 133°E﻿ / ﻿25°S 133°E﻿ / -25; 133

This article is about the country. For the continent, see [Australia \(continent\)](#). For other uses, see [Australia \(disambiguation\)](#).

Australia (/əˈstreɪliə/ (listen), ɑː-ɹ-ɹ, l-ɹiə)^[10]^[11] officially the **Commonwealth of Australia**,^[12] is a sovereign country comprising the mainland of the **Australian continent**, the island of **Tasmania** and numerous **smaller islands**. It is the largest country in **Oceania** and the world's **sixth-largest country by total area**. The neighbouring countries are **Papua New Guinea**, **Indonesia** and **East Timor** to the north; the **Solomon Islands** and **Vanuatu** to the north-east; and **New Zealand** to the south-east. Australia's capital is **Canberra**, and its largest urban area is **Sydney**.

For about 50,000 years^[13] before the first **British settlement** in the late 18th century,^[14]^[15] Australia was inhabited by **indigenous Australians**,^[16] who spoke languages classifiable into roughly **250 groups**.^[17]^[18] After the European discovery of the continent by **Dutch** explorers in **1606**, Australia's eastern half was claimed by **Great Britain** in **1770** and initially settled through **penal transportation** to the colony of **New South Wales** from 26 January 1788. The population grew steadily in subsequent decades, and by the 1850s most of the continent had been explored and an additional five self-governing **crown colonies** established. On 1 January 1901, the six colonies **federated**, forming the Commonwealth of Australia. Australia has since maintained a stable **liberal democratic** political system that functions as a **federal parliamentary constitutional monarchy** comprising **six states** and **several territories**.

Australia has the world's **13th-largest economy** and **ninth-highest per capita income** (IMF).^[19] With the second-highest **human development index** globally, the country **ranks highly** in quality of life, health, education, **economic freedom**, and **civil liberties** and political rights.^[20] Australia is a member of the **United Nations**, **G20**, **Commonwealth of Nations**, **ANZUS**, **Organisation for Economic Co-operation and Development** (OECD), **World Trade Organization**, **Asia-Pacific Economic Cooperation**, and the **Pacific Islands Forum**. The population of 25 million^[5] is highly **urbanised** and heavily concentrated on the eastern seaboard.^[21] Australia has the world's **9th largest immigrant population**, with immigrants accounting for 26% of

Commonwealth of Australia



Flag



Coat of arms

Anthem: "Advance Australia Fair"^[N 1]




0:00 MENU



Objects

articles@six_degrees (lo...

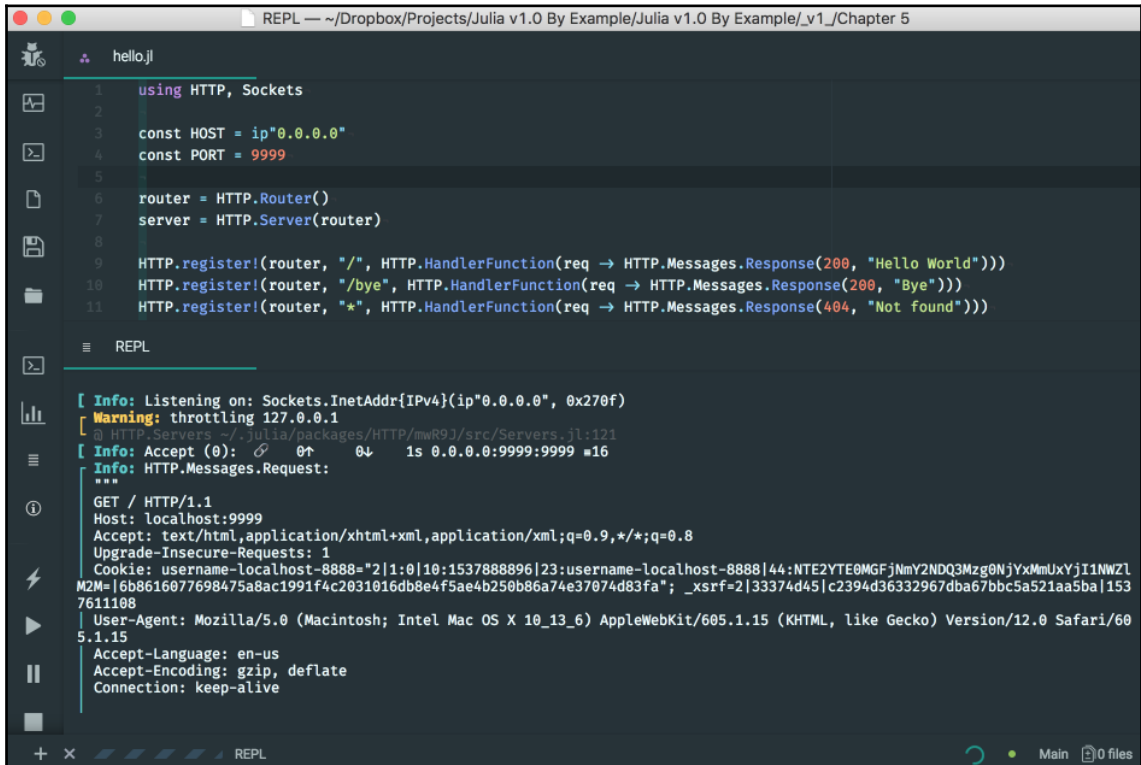


title	content
Hillary Maritim	<!DOCTYPE html>
Athletics at the 2000 Summer Olympics – Men's 400 metres hurdle	<!DOCTYPE html>
Zahr-el-Din El-Najem	<!DOCTYPE html>

+ − ✓ ✗ ↻ ■

```
SELECT * FROM `six_degrees`.`articles` LIMIT 0,1000
```

Chapter 5: Adding a Web UI for the Wiki Game



```
REPL — ~/Dropbox/Projects/Julia v1.0 By Example/Julia v1.0 By Example/_v1_/Chapter 5
hello.jl
1 using HTTP, Sockets
2
3 const HOST = ip"0.0.0.0"
4 const PORT = 9999
5
6 router = HTTP.Router()
7 server = HTTP.Server(router)
8
9 HTTP.register!(router, "/", HTTP.HandlerFunction(req → HTTP.Messages.Response(200, "Hello World")))
10 HTTP.register!(router, "/bye", HTTP.HandlerFunction(req → HTTP.Messages.Response(200, "Bye")))
11 HTTP.register!(router, "*", HTTP.HandlerFunction(req → HTTP.Messages.Response(404, "Not found")))

REPL

[ Info: Listening on: Sockets.InetAddr{IPv4}{ip"0.0.0.0", 0x270f}
[ Warning: throttling 127.0.0.1
@ HTTP.Servers ~/julia/packages/HTTP/mwR9J/src/Servers.jl:121
[ Info: Accept (0): 0↑ 0↓ 1s 0.0.0.0:9999:9999 #16
[ Info: HTTP.Messages.Request:
****
GET / HTTP/1.1
Host: localhost:9999
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Upgrade-Insecure-Requests: 1
Cookie: username=localhost-8888="2|1:0|10:1537888896|23:username=localhost-8888|44:NTE2YTE0MGFjNmY2NDQ3Mzg0NjYxMmUxYjI1NWZlM2M=|6b8616077698475a8ac1991f4c2031016db8e4f5ae4b250b86a74e37074d83fa"; _xsrf=2|33374d45|c2394d36332967dba67bbc5a521aa5ba|1537611108
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_13_6) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/12.0 Safari/605.1.15
Accept-Language: en-us
Accept-Encoding: gzip, deflate
Connection: keep-alive
```

The image shows a web browser window with the address bar set to `localhost:9999/`. The page content displays `Hello World`. The browser's developer tools are open to the Network tab, showing a single request to `localhost:9999/` with a status of 200 and a method of GET. The request size is 11 B and the response size is 11 B. The total load time is 33 ms, with DOMContentLoaded at 29 ms and the actual load at 33 ms.

Stat...	Met...	File	Domain	Cause	T...	Trans...	Size	0 ms	80 ms
200	GET	/	localhost:9999	document	plain	11 B	11 B	3 ms	

One request | 11 B / 11 B transferred | Finish: 3 ms | DOMContentLoaded: 29 ms | load: 33 ms

localhost:9999/oh/no

localhost:9999/oh/no

Not found

Inspecto Console Debugg {} Style Edit Performance Memor Network Storage

All HTML CSS JS XHR Fonts Images Media Flash WS Other Disable cache Filter URLs

S... Me F... D... C... Headers Cookies Params Response Timings Stack Trace

404 GET no loc... JS doc... p

Request URL: http://localhost:9999/oh/no
Request method: GET
Remote address: 127.0.0.1:9999
Status code: 404 Not Found [Learn More] Edit and Resend Raw headers
Version: HTTP/1.1

Filter headers

Response headers (69 B)
Connection: keep-alive [Learn More]
Content-Length: 9 [Learn More]

Request headers (359 B)
Host: localhost:9999 [Learn More]
User-Agent: Mozilla/5.0 (Macintosh; Intel ...) Gecko/20100101 Firefox/56.0 [Learn More]
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 [Learn More]
Accept-Language: en-US,en;q=0.5 [Learn More]
Accept-Encoding: gzip, deflate [Learn More]
Connection: keep-alive [Learn More]
Upgrade-Insecure-Requests: 1 [Learn More]
Cache-Control: max-age=0 [Learn More]

One request 9 B / 9 B transferred Fin

Six degrees of Wikipedia

The goal of the game is to find the shortest path between two random Wikipedia articles. Depending on the difficulty level you choose, the Wiki pages will be further apart and less related.

If you can't find the solution, you can always go back up the articles chain, but you need to find the solution within the maximum number of steps, otherwise you lose.

If you get stuck, you can always check the solution, but you'll lose.

Good luck and enjoy!

New game

Easy (2 links away)

Medium (4 links away)

Hard (6 links away)

Saigon (Grey novel)

[Open main menu](#)

β

Search Wikipedia

Search

- [Edit this page](#)
- [View source](#)
- [View history](#)

Saigon (Grey novel)

This article **does not cite any sources**. Please help [improve this article](#) by [adding citations to reliable sources](#). Unsourced material may be challenged and [removed](#). *(January 2011)* ([Learn how and when to remove this template message](#))

Saigon is a novel by [Anthony Grey](#). *Saigon* follows the lives of three families, one American, one French, and the other Vietnamese, from the [French colonial era](#) in the early 1920s until the last helicopter left [Saigon](#) at the end of the [Vietnam War](#).

Author [Anthony Grey](#)

Subject [Vietnam](#)

Genre [historical novel](#)

Publisher Weidenfeld & Nicolson, Little, Brown

Millwall F.C.–West Ham United F.C. rivalry

The **rivalry between Millwall and West Ham United** is one of the longest-standing and most bitter in [English football](#). The two teams, then known as [Millwall Athletic](#) and [Thames Ironworks](#), both originated in the [East End](#) of London, and were located under three miles apart. They first played each other in the [1899–1900 FA Cup](#). The match was historically known as the **Dockers derby**, as both sets of supporters were predominantly [dockers](#) at shipyards on either side of the [River Thames](#). Consequently, each set of fans worked for rival firms who were competing for the same business; this intensified the tension between the teams. In 1910, Millwall moved [south](#) of the River Thames to [New Cross](#) and the teams were no longer [East London neighbours](#). Both sides have relocated since, but remain just under four miles apart. Millwall moved to [The Den](#) in [Bermondsey](#) in 1993 and West Ham to the [London Stadium](#) in [Stratford](#) in 2016.



The last derby at [Upton Park](#).

(4 February 2012)

Locale London ([East](#) and [South](#))
Teams [Millwall](#) and [West Ham United](#)

Everett Township, Burt County, Nebraska

Everett Township is one of twelve **townships** in **Burt County, Nebraska**, United States. The population was 1,149 at the **2000 census**. A 2006 estimate placed the township's population at 1,072.^[1]

```
Everett Township
<div class="content" id="bodyContent">
  <div class="mw-content-ltr" id="mw-content-text" lang="en" dir="ltr">
    <script></script>
    <div class="mw-parser-output">
      <div class="mf-section-0" id="mf-section-0">
        <p>
          <b>Everett Township</b>
          <a href="/x2wHk2XI/wiki/Township_(United_States)" title="Township (United States)">townships</a> = 50
          <a href="/x2wHk2XI/wiki/Burt_County,_Nebraska" title="Burt County, Nebraska">Burt County</a>
          <a href="/x2wHk2XI/wiki/Nebraska" title="Nebraska">Nebraska</a>
          <a class="mw-redirect" href="/x2wHk2XI/wiki/United_States_Census,_2000" title="United States Census, 2000">2000
            census</a>
            . A 2006 estimate placed the township's population at 1,072."
          <sup class="reference" id="cite_ref-1"></sup>
        </p>
        <table class="infobox geography vcard" style="width:22em;width:23em"></table>
        <div>
          <p></p>
        </div>
        <h2 onclick="javascript:mfTempOpenSection(1)" class="in-block section-heading"></h2>
        <div class="mf-section-1 collapsible-block" id="mf-section-1"></div>
      </div>
    </div>
  </div>
</div>
```

localhost:8888/12720c4

Go from *Battle of the Chernaya* to *Planet Simpson*

/wiki/Planet_Simpson

Progress: 2 out of maximum 2 links in 2 steps

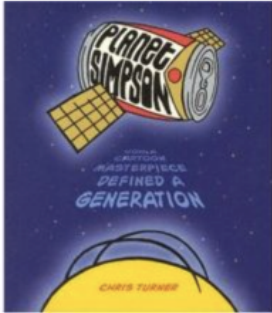
[Solution?](#) | [New game](#)

1. [Battle of the Chernaya](#)
2. [Catchphrase](#)
3. [Planet Simpson](#)

You Won!

Planet Simpson

Planet Simpson: How a Cartoon Masterpiece Documented an Era and Defined a Generation, also abbreviated to ***Planet Simpson: How a Cartoon Masterpiece Defined a Generation***, is a non-fiction book about *The Simpsons*, written by [Chris Turner](#) and originally published on October 12, 2004 by [Random House](#).^[1] The book is partly a memoir and an exploration of the impact *The Simpsons* has had on popular culture.



Cover of *Planet Simpson* (1st United States ed.)

Author [Chris Turner](#)

Country Canada

Language English

Go from *Colle di Brianza* to *Pyramidal peak* /wiki/Pyramidal_peak

Progress: 2 out of maximum 2 links in 10 steps

[Solution?](#) | [New game](#)

1. [Colle di Brianza](#)
2. [Summit](#)
3. [Pyramidal peak](#)

You Lost :(

Pyramidal peak



The [Matterhorn](#), a classic example of a pyramidal peak.



Coroa do Frade (center right), a pyramid-shaped peak at the [Serra dos Órgãos National Park](#), in [Rio de Janeiro state](#), [Brazil](#).

A **pyramidal peak**, sometimes in its most extreme form called a **glacial horn**, is an angular, sharply pointed

Go from **Bar Harbor Airlines** to **Naval Air Station Brunswick**

Progress: **2** out of maximum **2** links in **2** steps

Bar Harbor Airlines

Trenton, Maine

Acadia National Park

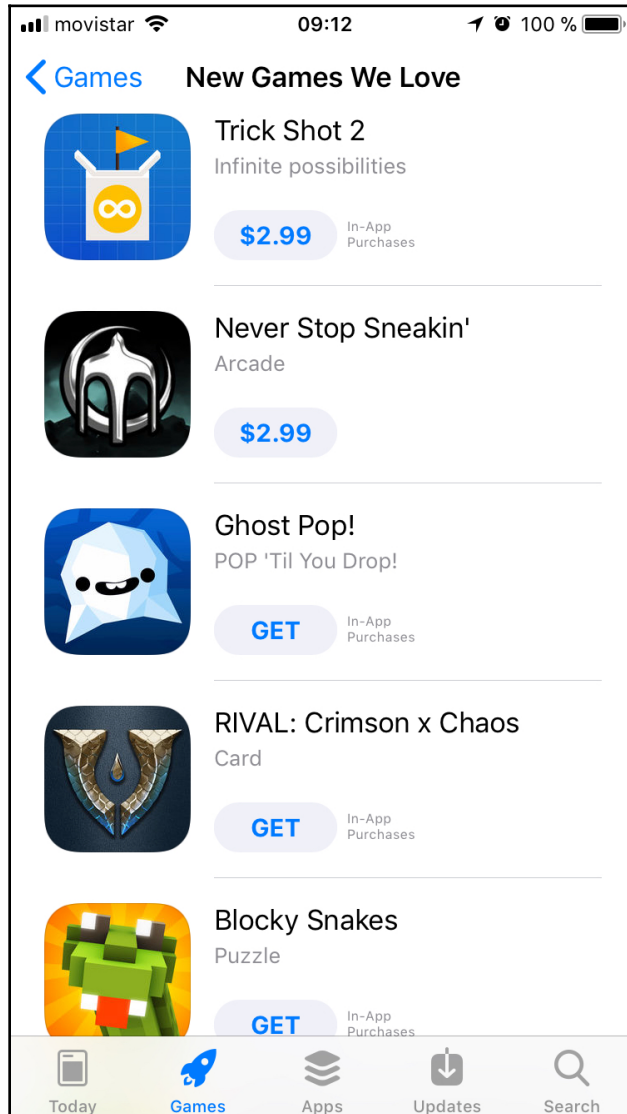
Solution?

New game

Acadia National Park

Acadia National Park is an American [national park](#) located in the state of [Maine](#), southwest of [Bar Harbor](#). The park reserves most of [Mount Desert Island](#) and its associated smaller islands along the [coast of Maine](#). Initially designated [Sieur de Monts National Monument](#) by presidential proclamation in 1916,^{[3][4]} the park was renamed and redesignated as [Lafayette National Park](#) in 1919.^{[5][6]} The park was renamed Acadia National Park in 1929.^[5]

Chapter 6: Implementing Recommender Systems with Julia



< Games

New Games We Love



Ava Airborne
Defy gravity. With style.

GET In-App Purchases



CYBER:JUMP
Action

GET



Trick Shot 2
Infinite possibilities

14,99 lei In-App Purchases



Tetrun
Parkour & Freerun Mania

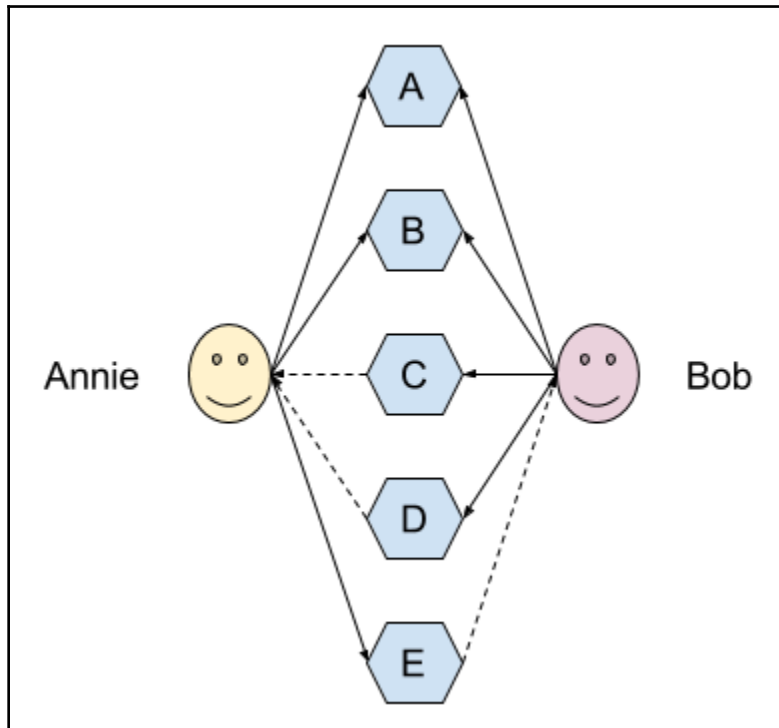
GET In-App Purchases



Colorblind - An Eye For An E...
Action

GET In-App Purchases

	A	B	C	D	E	F	G	H	I
1	Movie title	Action	Animation	Comedy	Drama	Kids	Mistry	Musical	SF
2	Moonlight (2016)	0	0	0	1	0	0	0	0
3	Zootopia (2016)	1	1	1	0	0	0	0	0
4	Arrival (2016)	0	0	0	1	0	1	0	1
5	Hell or High Water (2016)	0	0	0	1	0	1	0	0
6	La La Land (2016)	0	0	1	1	0	0	1	0
7	The Jungle Book (2016)	1	0	0	0	1	0	0	0
8	Manchester by the Sea (2016)	0	0	0	1	0	0	0	0
9	Finding Dory (2016)	0	1	0	0	0	0	0	0
10	Captain America: Civil War (2016)	1	0	0	0	0	0	0	1
11	Moana (2016)	1	1	0	0	0	0	0	0



Movie title	Acton	Annie	Comey	Dean	Kit	Missie	Musk	Sam
Moonlight (2016)		3		10		9	2	
Zootopia (2016)	9	10	7		10		5	
Arrival (2016)	5		6	10		9		10
Hell or High Water (2016)	3		3	10		8		
La La Land (2016)	6		8	9			10	
The Jungle Book (2016)	8	7		2	9		6	
Manchester by the Sea (2016)			2	8				
Finding Dory (2016)	7	8	5	4	10			
Captain America: Civil War (2016)	10		5	6				9
Moana (2016)	8	9			10		7	

```

11x9 Array{Any,2}:
"Movie title"          "Acton"  "Annie"  ...  "Dean"  "Kit"  "Missie"  "Musk"  "Sam"
"Moonlight (2016)"    ""        3         10    ""       ""      9          2        ""
"Zootopia (2016)"     9         10        ""    10       ""      ""         5        ""
"Arrival (2016)"      5         ""        10    ""       ""      9          ""       10
"Hell or High Water (2016)" 3         ""        10    ""       ""      8          ""       ""
"La La Land (2016)"   6         ""        9     ""       ""      ""         10       ""
"The Jungle Book (2016)" 8         7         2     9        ""      ""         6        ""
"Manchester by the Sea (2016)" ""        ""        8     ""       ""      ""         ""       ""
"Finding Dory (2016)"  7         8         4     10      ""      ""         ""       ""
"Captain America: Civil War (2016)" 10        ""        6     ""       ""      ""         ""       9
"Moana (2016)"       8         9         ""    10       ""      ""         7        ""

```

```

10x9 DataFrame

```

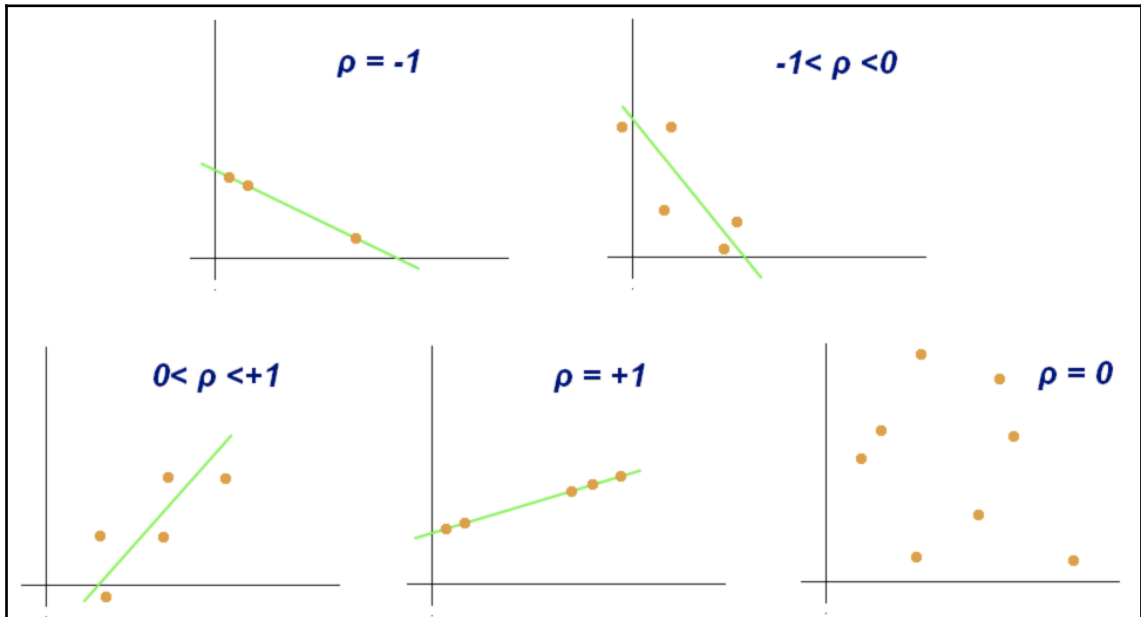
Row	Movie title Union{Missing, String}	Acton Int64	Annie Int64	Comey Int64	Dean Int64	Kit Int64	Missie Int64	Musk Int64	Sam Int64
1	Moonlight (2016)	missing	3	missing	10	missing	9	2	missing
2	Zootopia (2016)	9	10	7	missing	10	missing	5	missing
3	Arrival (2016)	5	missing	6	10	missing	9	missing	10
4	Hell or High Water (2016)	3	missing	3	10	missing	8	missing	missing
5	La La Land (2016)	6	missing	8	9	missing	missing	10	missing
6	The Jungle Book (2016)	8	7	missing	2	9	missing	6	missing
7	Manchester by the Sea (2016)	missing	missing	2	8	missing	missing	missing	missing
8	Finding Dory (2016)	7	8	5	4	10	missing	missing	missing
9	Captain America: Civil War (2016)	10	missing	5	6	missing	missing	missing	9
10	Moana (2016)	8	9	missing	missing	10	missing	7	missing

9x8 DataFrame

Row	variable Symbol	mean Union...	min Any	median Union...	max Any	nunique Union...	nmissing Int64	eltype DataType
1	Movie title		Arrival (2016)		Zootopia (2016)	10	0	String
2	Acton	7.0	3	7.5	10		2	Int64
3	Annie	7.4	3	8.0	10		5	Int64
4	Comey	5.14286	2	5.0	8		3	Int64
5	Dean	7.375	2	8.5	10		2	Int64
6	Kit	9.75	9	10.0	10		6	Int64
7	Missie	8.66667	8	9.0	9		7	Int64
8	Musk	6.0	2	6.0	10		5	Int64
9	Sam	9.5	9	9.5	10		8	Int64

10x9 DataFrame

Row	Movie title Union{Missing, String}	Acton Int64	Annie Int64	Comey Int64	Dean Int64	Kit Int64	Missie Int64	Musk Int64	Sam Int64
1	Moonlight (2016)	0	3	0	10	0	9	2	0
2	Zootopia (2016)	9	10	7	0	10	0	5	0
3	Arrival (2016)	5	0	6	10	0	9	0	10
4	Hell or High Water (2016)	3	0	3	10	0	8	0	0
5	La La Land (2016)	6	0	8	9	0	0	10	0
6	The Jungle Book (2016)	8	7	0	2	9	0	6	0
7	Manchester by the Sea (2016)	0	0	2	8	0	0	0	0
8	Finding Dory (2016)	7	8	5	4	10	0	0	0
9	Captain America: Civil War (2016)	10	0	5	6	0	0	0	9
10	Moana (2016)	8	9	0	0	10	0	7	0

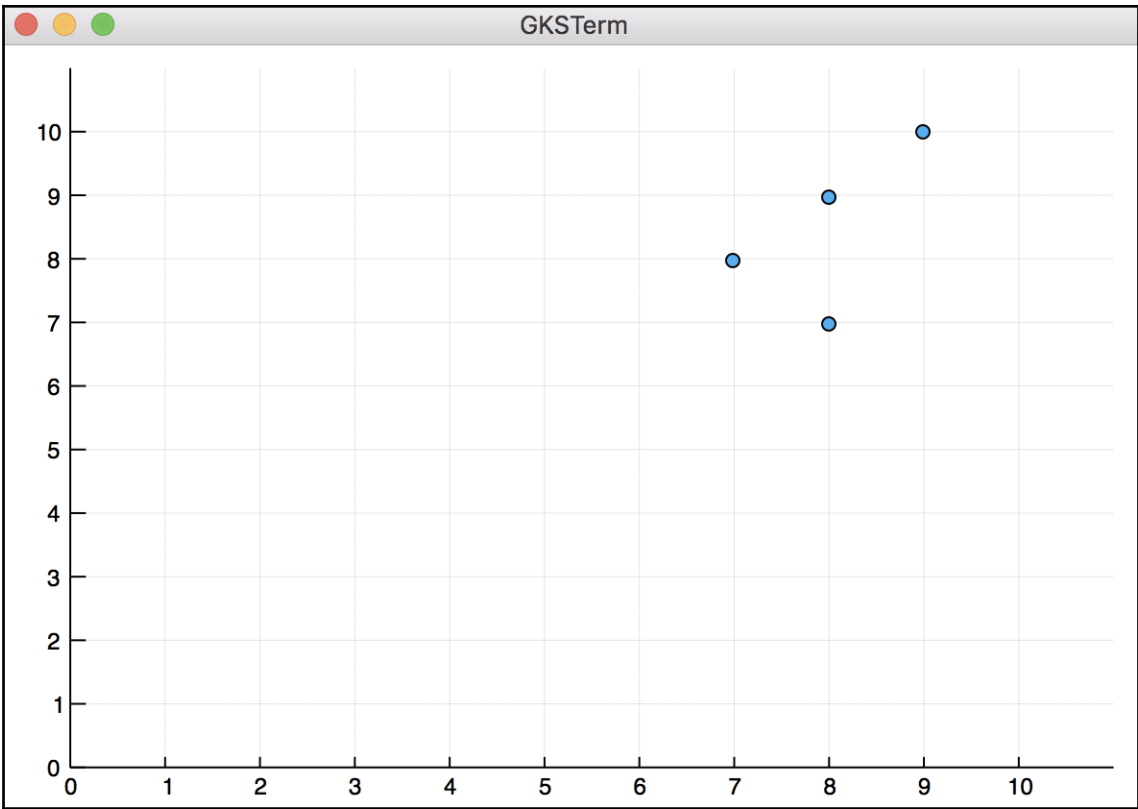


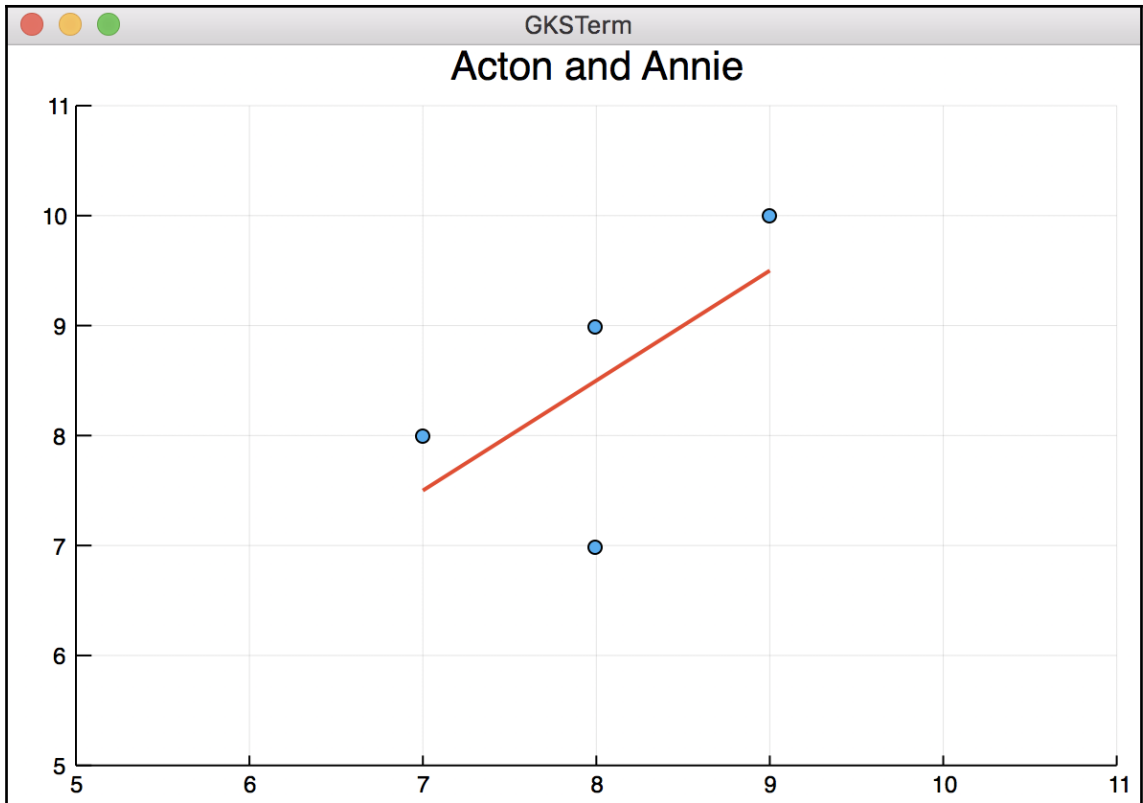
10x3 DataFrame

Row	Movie title Union{Missing, String}	Acton Int64	Annie Int64
1	Moonlight (2016)	0	3
2	Zootopia (2016)	9	10
3	Arrival (2016)	5	0
4	Hell or High Water (2016)	3	0
5	La La Land (2016)	6	0
6	The Jungle Book (2016)	8	7
7	Manchester by the Sea (2016)	0	0
8	Finding Dory (2016)	7	8
9	Captain America: Civil War (2016)	10	0
10	Moana (2016)	8	9

4x3 DataFrame

Row	Movie title Union{Missing, String}	Acton Int64	Annie Int64
1	Zootopia (2016)	9	10
2	The Jungle Book (2016)	8	7
3	Finding Dory (2016)	7	8
4	Moana (2016)	8	9





4x3 DataFrame

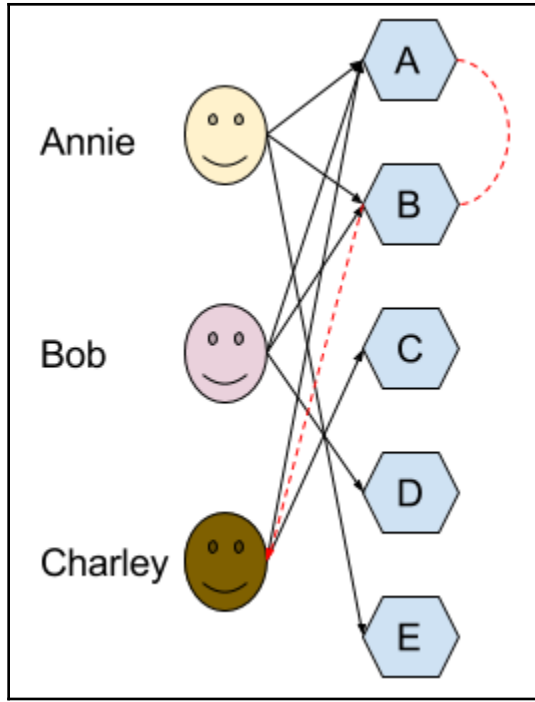
Row	Movie title Union{Missing, String}	Acton Int64	Annie Int64
1	Arrival (2016)	5	0
2	Hell or High Water (2016)	3	0
3	La La Land (2016)	6	0
4	Captain America: Civil War (2016)	10	0

1x3 DataFrame

Row	Movie title Union{Missing, String}	Acton Int64	Annie Int64
1	Captain America: Civil War (2016)	10	0

10x3 DataFrame

Row	Movie title Union{Missing, String}	Dean Int64	Kit Int64
1	Moonlight (2016)	10	0
2	Zootopia (2016)	0	10
3	Arrival (2016)	10	0
4	Hell or High Water (2016)	10	0
5	La La Land (2016)	9	0
6	The Jungle Book (2016)	2	9
7	Manchester by the Sea (2016)	8	0
8	Finding Dory (2016)	4	10
9	Captain America: Civil War (2016)	6	0
10	Moana (2016)	0	10



```
11x9 Array{Any,2}:
"Movie title"          "Acton"    "Annie"    "Comey"    "Dean"    "Kit"    "Missie"    "Musk"    "Sam"
"Moonlight (2016)"    0           3           0          10         0         9           2         0
"Zootopia (2016)"     9          10          7           0         10        0           5         0
"Arrival (2016)"      5           0           6          10         0         9           0        10
"Hell or High Water (2016)" 3           0           3          10         0         8           0         0
"La La Land (2016)"  6           0           8           9         0         0          10         0
"The Jungle Book (2016)" 8           7           0           2         9         0           6         0
"Manchester by the Sea (2016)" 0           0           2           8         0         0           0         0
"Finding Dory (2016)"  7           8           5           4          10        0           0         0
"Captain America: Civil War (2016)" 10          0           5           6         0         0           0         9
"Moana (2016)"        8           9           0           0          10        0           7         0
```

```
9x11 Array{Any,2}:
"Movie title"    "Moonlight (2016)"    "Zootopia (2016)"    "Arrival (2016)"    ...    "Moana (2016)"
"Acton"          0                      9                    5                    8
"Annie"          3                      10                   0                    9
"Comey"          0                      7                    6                    0
"Dean"           10                     0                    10                   0
"Kit"            0                      10                   0                    ... 10
"Missie"         9                      0                    9                    0
"Musk"           2                      5                    0                    7
"Sam"            0                      0                    10                   0
```

9x11 DataFrame

Row	x1 Any	x2 Any	x3 Any	x4 Any	x5 Any
1	Movie title	Moonlight (2016)	Zootopia (2016)	Arrival (2016)	Hell or High Water (2016)
2	Acton	0	9	5	3
3	Annie	3	10	0	0
4	Comey	0	7	6	3
5	Dean	10	0	10	10
6	Kit	0	10	0	0
7	Missie	9	0	9	8
8	Musk	2	5	0	0
9	Sam	0	0	10	0

Row	x6 Any	x7 Any	x8 Any
1	La La Land (2016)	The Jungle Book (2016)	Manchester by the Sea (2016)
2	6	8	0
3	0	7	0
4	8	0	2
5	9	2	8
6	0	9	0
7	0	0	0
8	10	6	0
9	0	0	0

Row	x9 Any	x10 Any	x11 Any
1	Finding Dory (2016)	Captain America: Civil War (2016)	Moana (2016)
2	7	10	8
3	8	0	9
4	5	5	0
5	4	6	0
6	10	0	10
7	0	0	0
8	0	0	7
9	0	9	0

9x11 DataFrame

Row	Movie title Any	Moonlight (2016) Any	Zootopia (2016) Any	Arrival (2016) Any	Hell or High Water (2016) Any
1	Movie title	Moonlight (2016)	Zootopia (2016)	Arrival (2016)	Hell or High Water (2016)
2	Acton	0	9	5	3
3	Annie	3	10	0	0
4	Comey	0	7	6	3
5	Dean	10	0	10	10
6	Kit	0	10	0	0
7	Missie	9	0	9	8
8	Musk	2	5	0	0
9	Sam	0	0	10	0

Row	La La Land (2016) Any	The Jungle Book (2016) Any	Manchester by the Sea (2016) Any
1	La La Land (2016)	The Jungle Book (2016)	Manchester by the Sea (2016)
2	6	8	0
3	0	7	0
4	8	0	2
5	9	2	8
6	0	9	0
7	0	0	0
8	10	6	0
9	0	0	0

Row	Finding Dory (2016) Any	Captain America: Civil War (2016) Any	Moana (2016) Any
1	Finding Dory (2016)	Captain America: Civil War (2016)	Moana (2016)
2	7	10	8
3	8	0	9
4	5	5	0
5	4	6	0
6	10	0	10
7	0	0	0
8	0	0	7
9	0	9	0

8x11 DataFrame

Row	User Any	Moonlight (2016) Any	Zootopia (2016) Any	Arrival (2016) Any	Hell or High Water (2016) Any
1	Acton	0	9	5	3
2	Annie	3	10	0	0
3	Comey	0	7	6	3
4	Dean	10	0	10	10
5	Kit	0	10	0	0
6	Missie	9	0	9	8
7	Musk	2	5	0	0
8	Sam	0	0	10	0

Row	La La Land (2016) Any	The Jungle Book (2016) Any	Manchester by the Sea (2016) Any
1	6	8	0
2	0	7	0
3	8	0	2
4	9	2	8
5	0	9	0
6	0	0	0
7	10	6	0
8	0	0	0

Row	Finding Dory (2016) Any	Captain America: Civil War (2016) Any	Moana (2016) Any
1	7	10	8
2	8	0	9
3	5	5	0
4	4	6	0
5	10	0	10
6	0	0	0
7	0	0	7
8	0	9	0

Chapter 7: Machine Learning for Recommender Systems

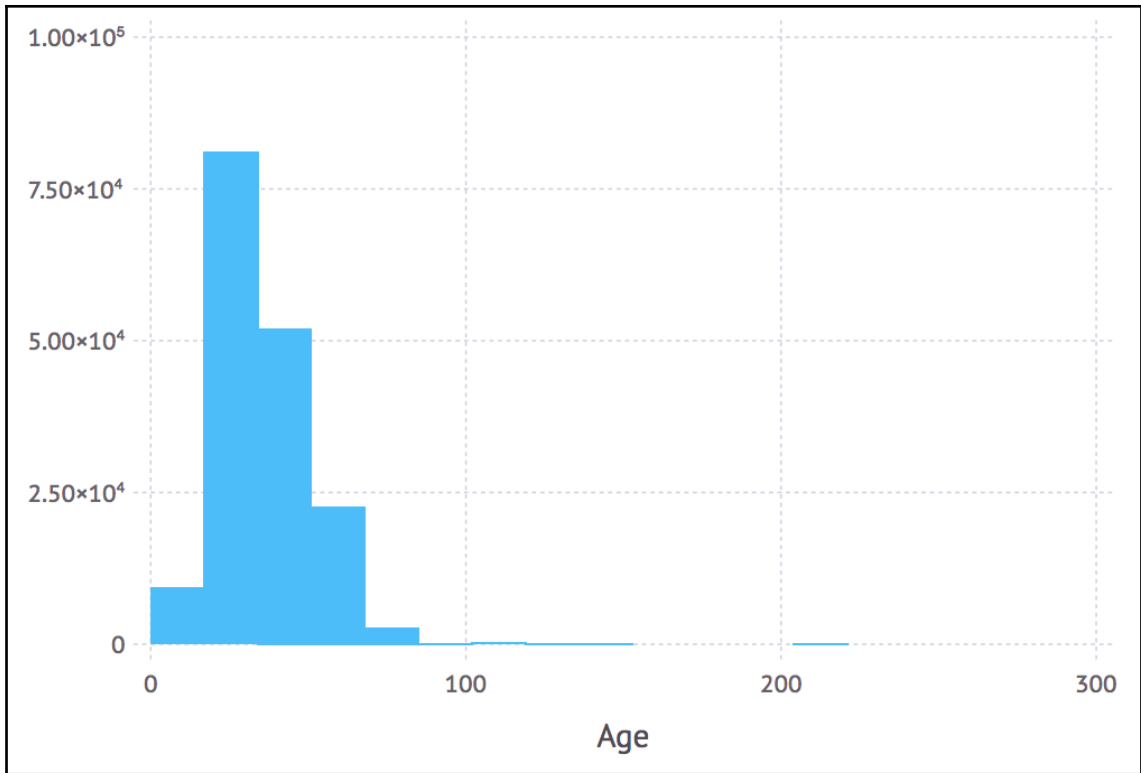
```
"User-ID";"Location";"Age"
"1";"nyc, new york, usa";NULL
"2";"stockton, california, usa";"18"
"3";"moscow, yukon territory, russia";NULL
"4";"porto, v.n.gaia, portugal";"17"
"5";"farnborough, hants, united kingdom";NULL
"6";"santa monica, california, usa";"61"
```

278858x3 DataFrames.DataFrame

Row	User-ID Int64	Location Union{Missing, String}	Age Int64
1	1	nyc, new york, usa	missing
2	2	stockton, california, usa	18
3	3	moscow, yukon territory, russia	missing
4	4	porto, v.n.gaia, portugal	17
5	5	farnborough, hants, united kingdom	missing
6	6	santa monica, california, usa	61

3x6 DataFrame

Row	variable Symbol	min Any	max Any	nmissing Int64	nunique Union...	eltype DataType
1	User-ID	1	278858	0		Int64
2	Location	"alexandria"., "alexandria"., egypt	\xfdzm\xfdr, n/a, turkey	0	57339	String
3	Age	0	244	110762		Int64

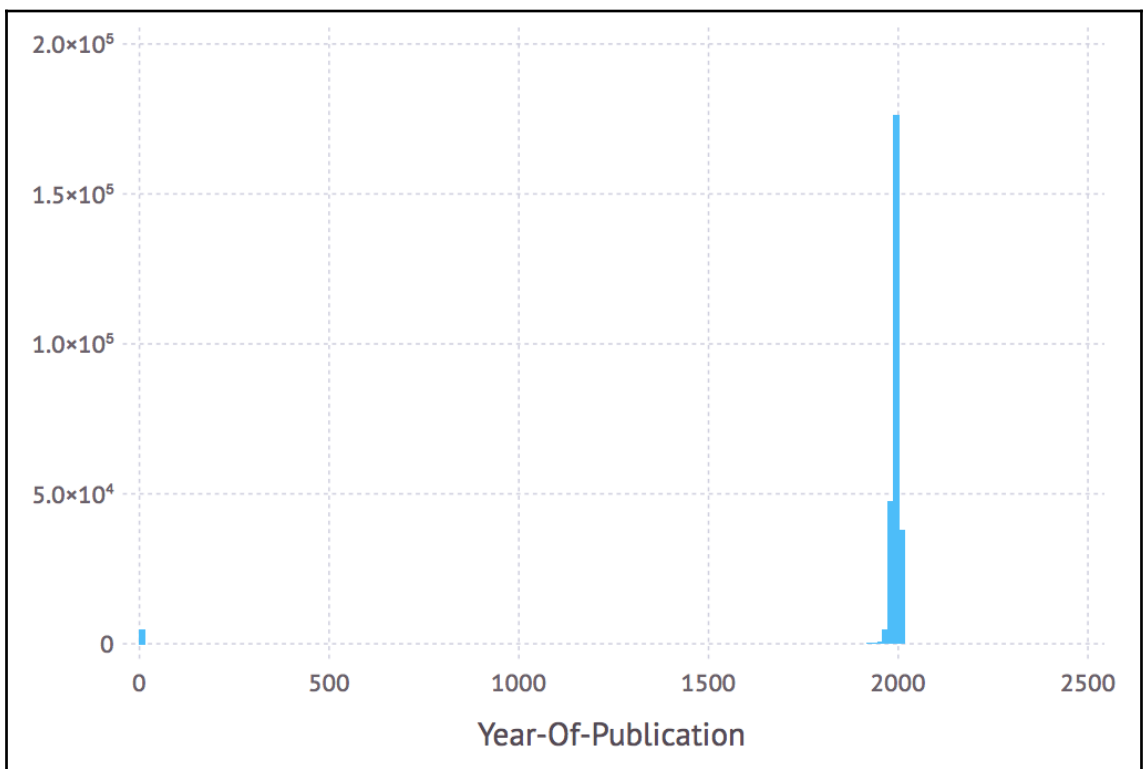


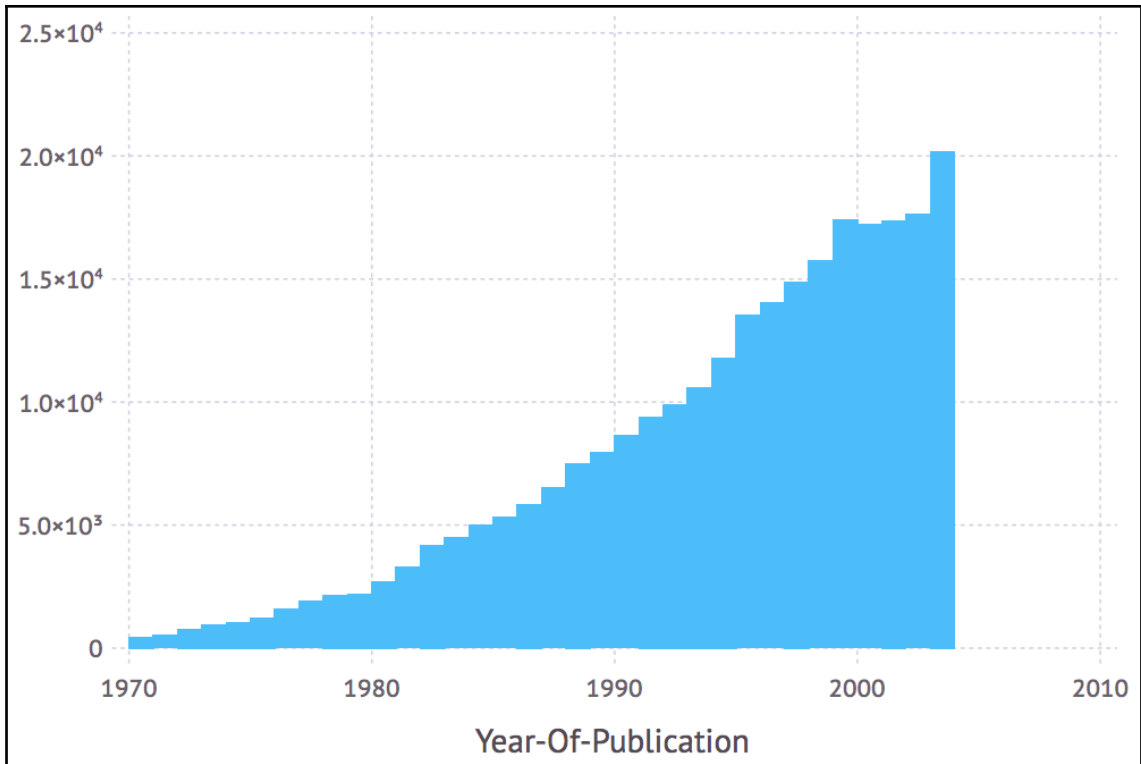
6x3 DataFrame

Row	User-ID Int64	Location Union{Missing, String}	Age Real
1	1	nyc, new york, usa	34.7514
2	2	stockton, california, usa	18
3	3	moscow, yukon territory, russia	34.7514
4	4	porto, v.n.gaia, portugal	17
5	5	farnborough, hants, united kingdom	34.7514
6	6	santa monica, california, usa	61

8x4 DataFrame

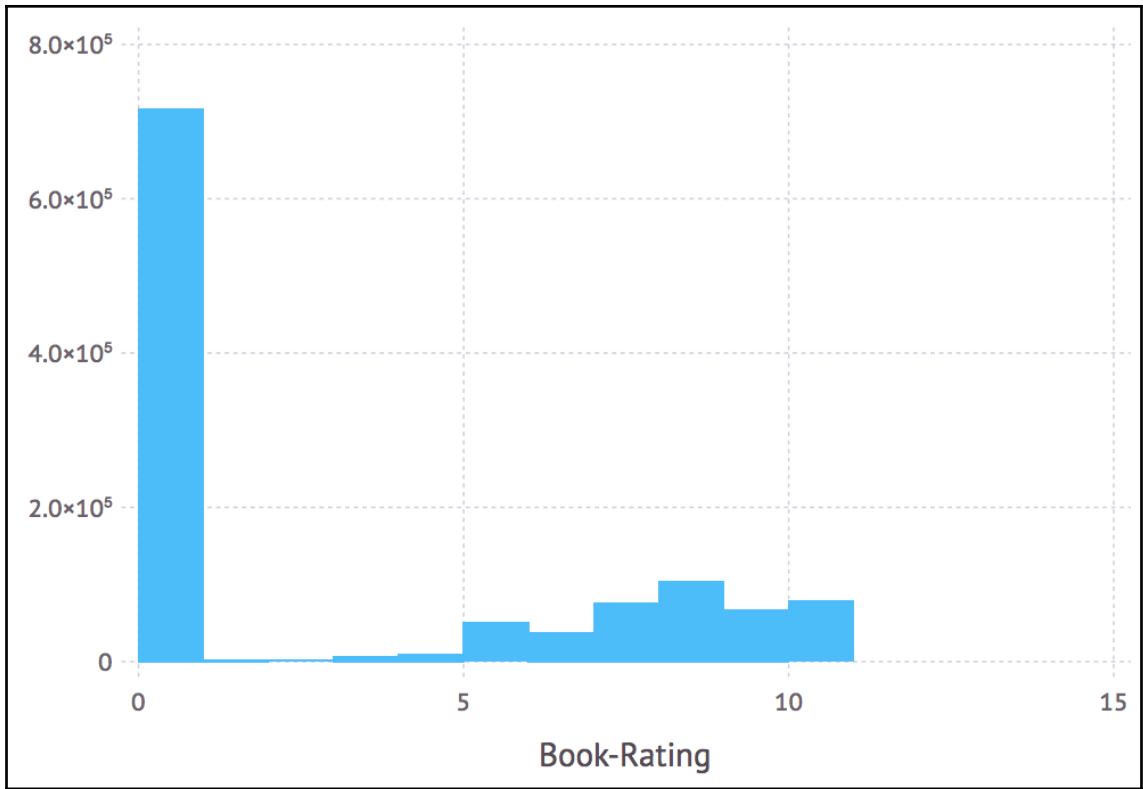
Row	variable Symbol	nmissing Int64	nunique Union...	eltype DataType
1	ISBN	0	271379	String
2	Book-Title	0	242154	String
3	Book-Author	0	102028	String
4	Year-Of-Publication	0		Int64
5	Publisher	0	16807	String
6	Image-URL-S	0	271063	String
7	Image-URL-M	0	271063	String
8	Image-URL-L	0	271063	String





3x8 DataFrame

Row	variable Symbol	mean Union...	min Any	median Union...	max Any	nunique Union...	nmissing Int64	eltype DataType
1	User-ID	1.40386e5	2	141010.0	278854		0	Int64
2	ISBN		0330299891		icrosoft	340556	0	String
3	Book-Rating	2.86695	0	0.0	10		0	Int64



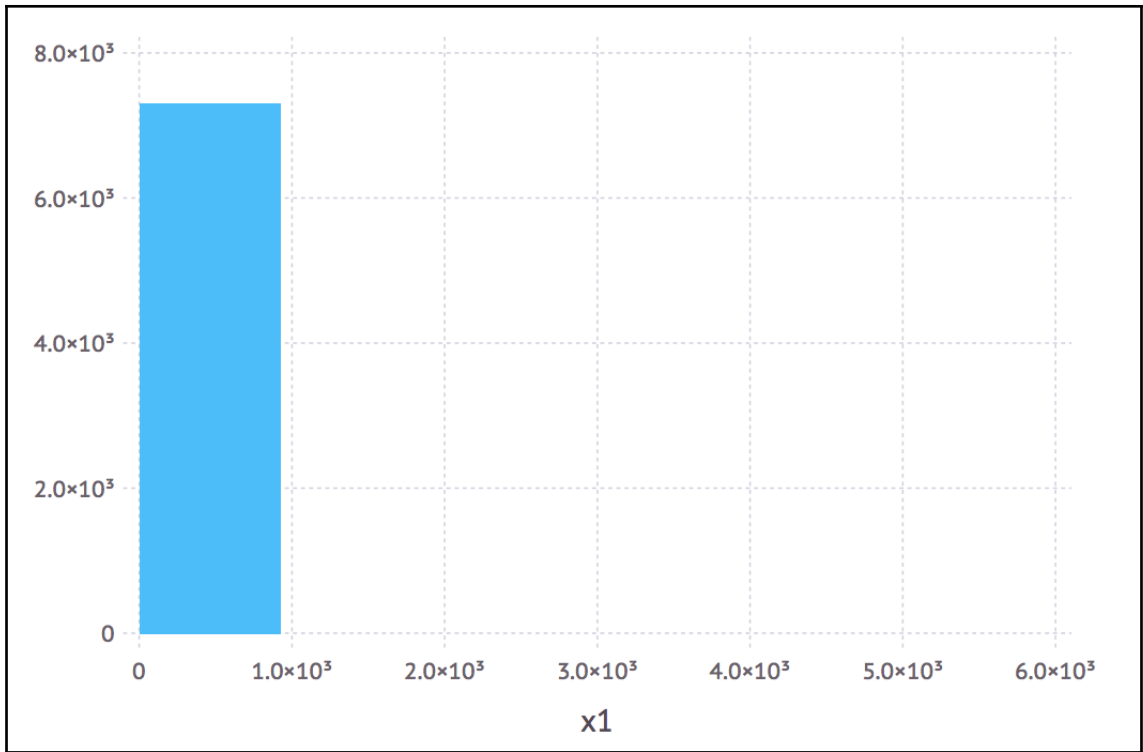


46106x2 DataFrame

Row	UserID Int64	x1 Int64
1	276747	3
2	276751	1
3	276754	1
4	276762	1
5	276772	2
6	276774	1

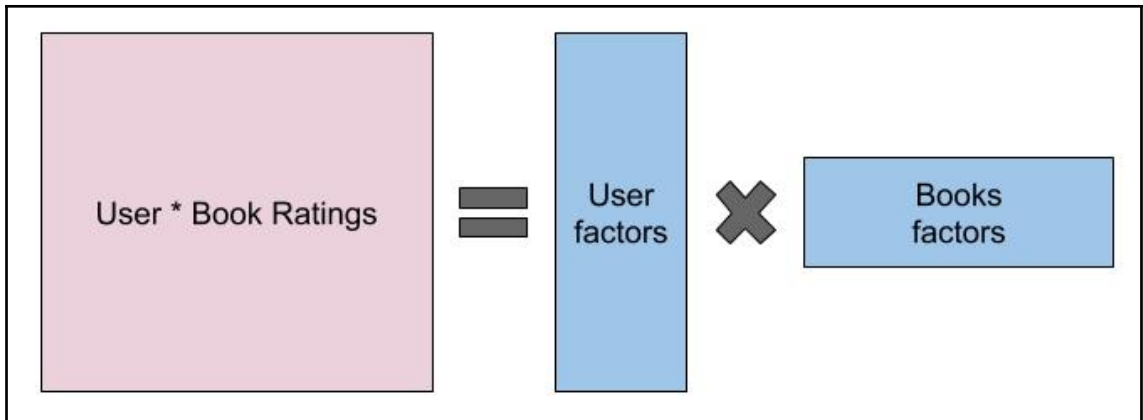
2x8 DataFrame

Row	variable Symbol	mean Float64	min Int64	median Float64	max Int64	nunique Nothing	nmissing Union...	eltype DataType
1	UserID	1.39098e5	12	1.38387e5	278854		0	Int64
2	x1	4.72804	1	1.0	5491			Int64



3x2 DataFrame

Row	UserID Int64	x1 Int64
1	11676	3639
2	98391	5491
3	153662	1579

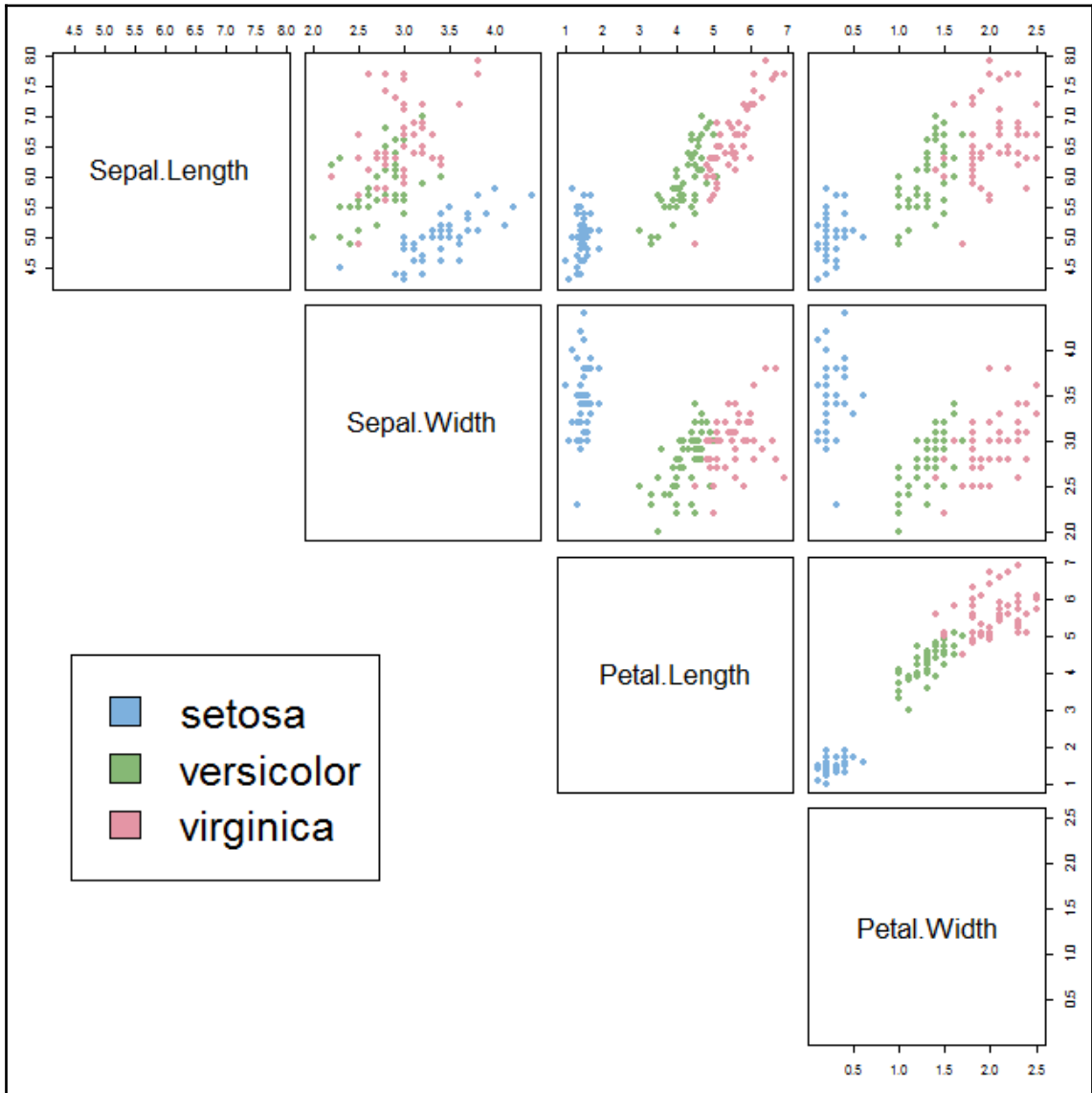


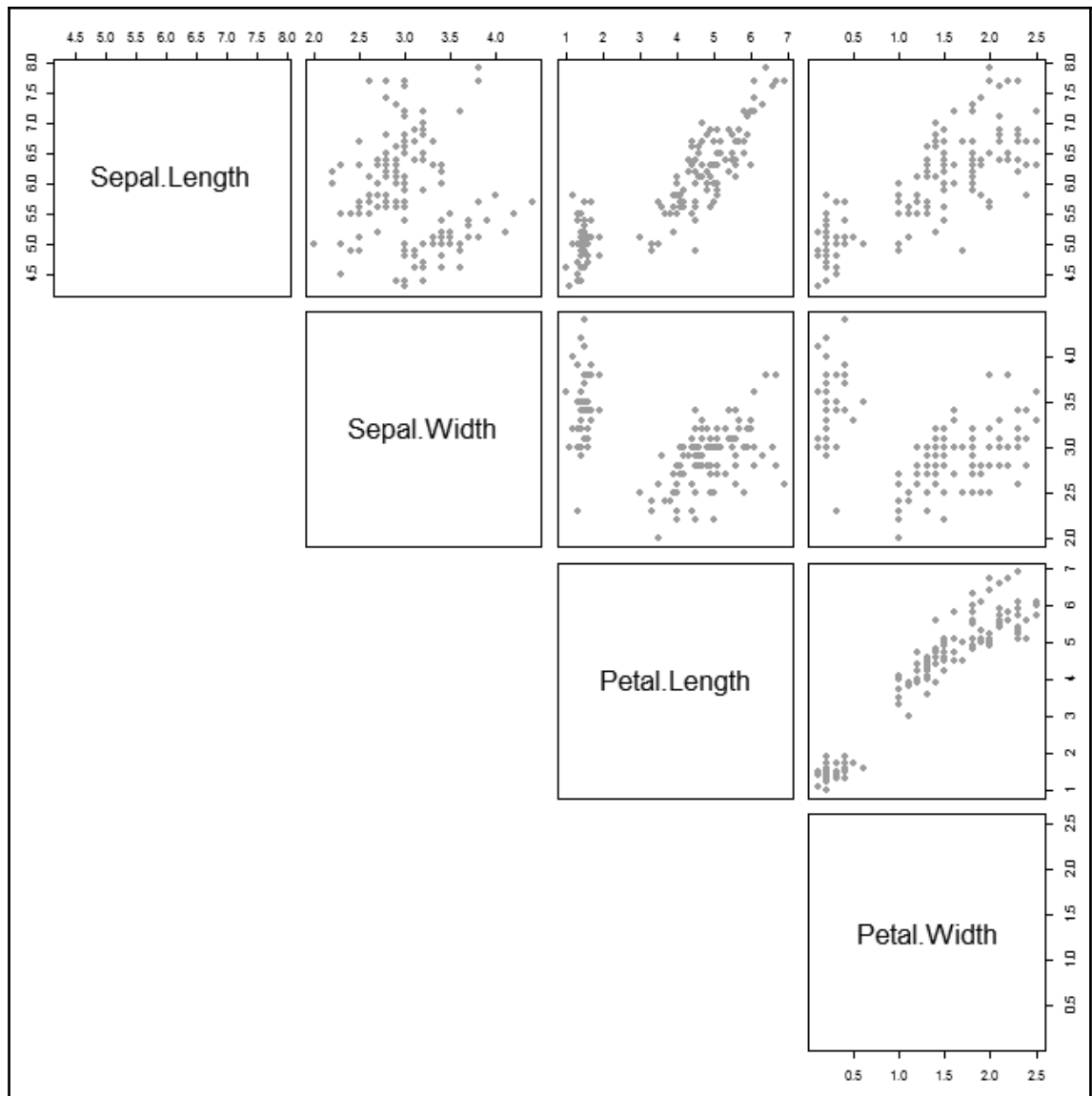
Row	UserID Int64	ISBN String	Rating Int64
1	277427	0060006641	10
2	277427	0441627404	10
3	277427	0446600415	10
4	277427	0671727079	9
5	277427	0671740504	8
6	277427	0671749897	8
7	277427	0836218817	10
8	277427	0842370668	10

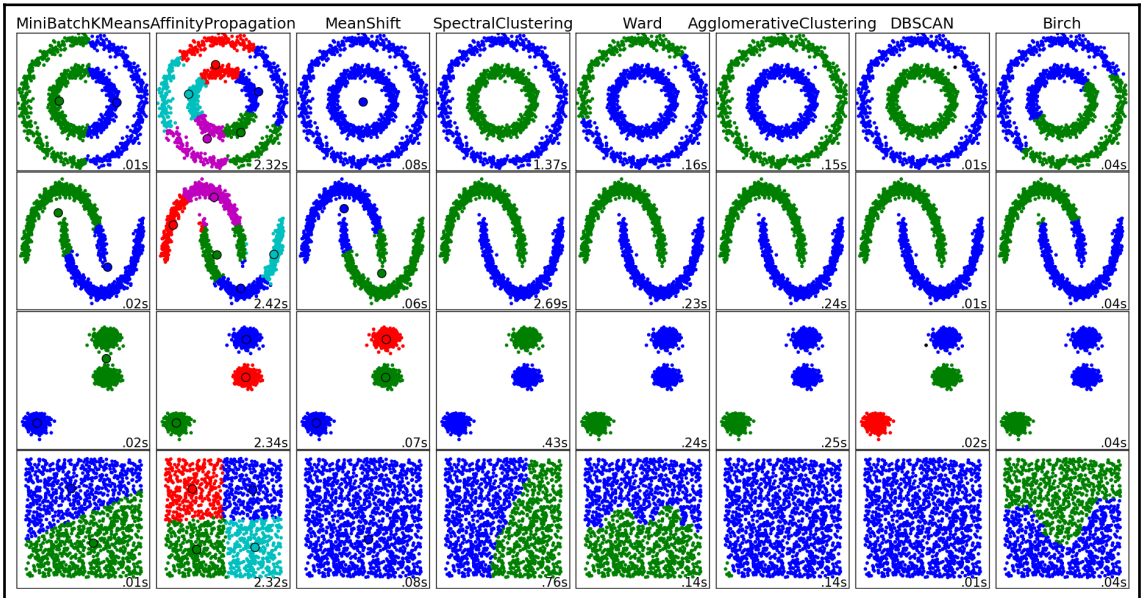
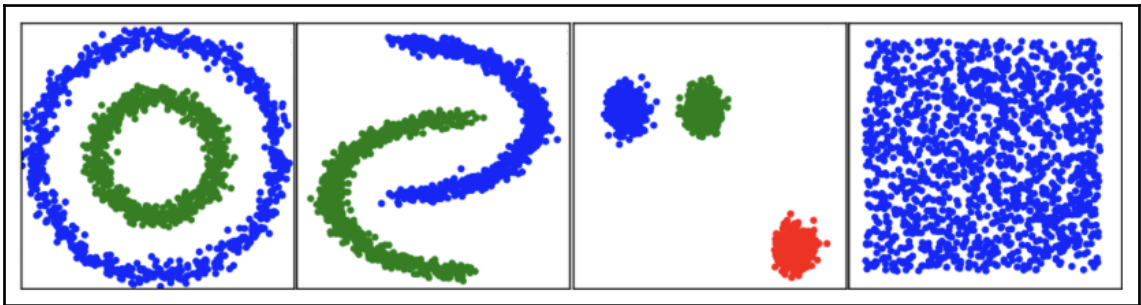
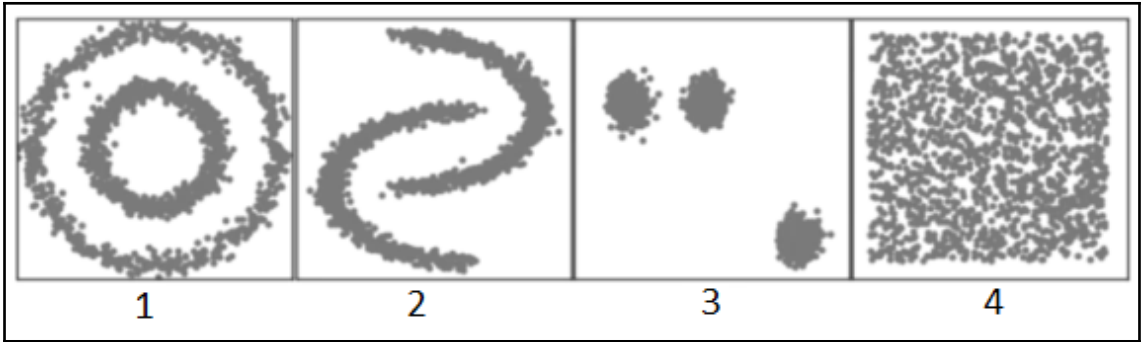
```
for img in thumbs[:, :Thumb]
    HTML("<img src='$(img)'>") |> display
end
```



Chapter 8: Leveraging Unsupervised Learning Techniques







Row	variable Symbol	nunique Union...	nmissing Int64
1	Location Id	222871	0
2	Business Account Number		0
3	Ownership Name	164934	0
4	DBA Name	190345	0
5	Street Address	156657	4
6	City	2373	266
7	State	61	678
8	Source Zipcode		103
9	Business Start Date	11597	0
10	Business End Date	2958	173184
11	Location Start Date	11480	0
12	Location End Date	3207	154644
13	Mail Address	104156	49688
14	Mail City	2328	47521
15	Mail Zipcode	4105	47570
16	Mail State	71	49751
17	NAICS Code	661	89763
18	NAICS Code Description	18	89763
19	Parking Tax		0
20	Transient Occupancy Tax		0
21	LIC Code	747	212545
22	LIC Code Description	104	212545
23	Supervisor District		86899
24	Neighborhoods - Analysis Boundaries	41	86904
25	Business Corridor	10	222597
26	Business Location	104904	50638

10x2 DataFrame

Row	DBA Name Union{Missing, String}	Parking Tax Bool
1	Test 12/28/2017 Location 1 / Parking	true
2	Douglas Parking	true
3	Douglas Parking	true
4	Douglas Parking	true
5	Volume Parking Services	true
6	Douglas Parking	true
7	Douglas Parking	true
8	Hyde Park Management Llc	true
9	Chestnut Street Lot	true
10	Fillmore Heritage Garage	true

3x2 DataFrame

Row	produce String	qty Int64
1	Apples	5
2	Milk	2
3	Bread	1

3x2 query result

produce	qty
APPLES	10
MILK	4
BREAD	2

3-element query result

("APPLES", 10)

("MILK", 4)

("BREAD", 2)

```
3-element Array{NamedTuple{(:PRODUCE, :double_qty), Tuple{String, Int64}}, 1}:  
(PRODUCE = "APPLES", double_qty = 10)  
(PRODUCE = "MILK", double_qty = 4)  
(PRODUCE = "BREAD", double_qty = 2)
```

3x2 DataFrame

Row	PRODUCE String	double_qty Int64
1	APPLES	10
2	MILK	4
3	BREAD	2

1x2 DataFrame

Row	produce String	qty Int64
1	Bread	1

2x2 DataFrame

Row	produce String	week_qty Int64
1	Apples	35
2	Milk	14

3x3 DataFrame

Row	produce String	price Float64	allergenic Bool
1	Apples	2.2	false
2	Milk	0.45	true
3	Bread	0.79	true

3x4 DataFrame

Row	produce String	qty Int64	price Float64	allergenic Bool
1	Apples	5	2.2	false
2	Milk	2	0.45	true
3	Bread	1	0.79	true

2x3 DataFrame

Row	allergenic Bool	count Int64	produce String
1	false	1	Apples
2	true	2	Milk, Bread

3x3 DataFrame

Row	produce String	price Float64	allergenic Bool
1	Apples	2.2	false
2	Bread	0.79	true
3	Milk	0.45	true

56549x6 DataFrame

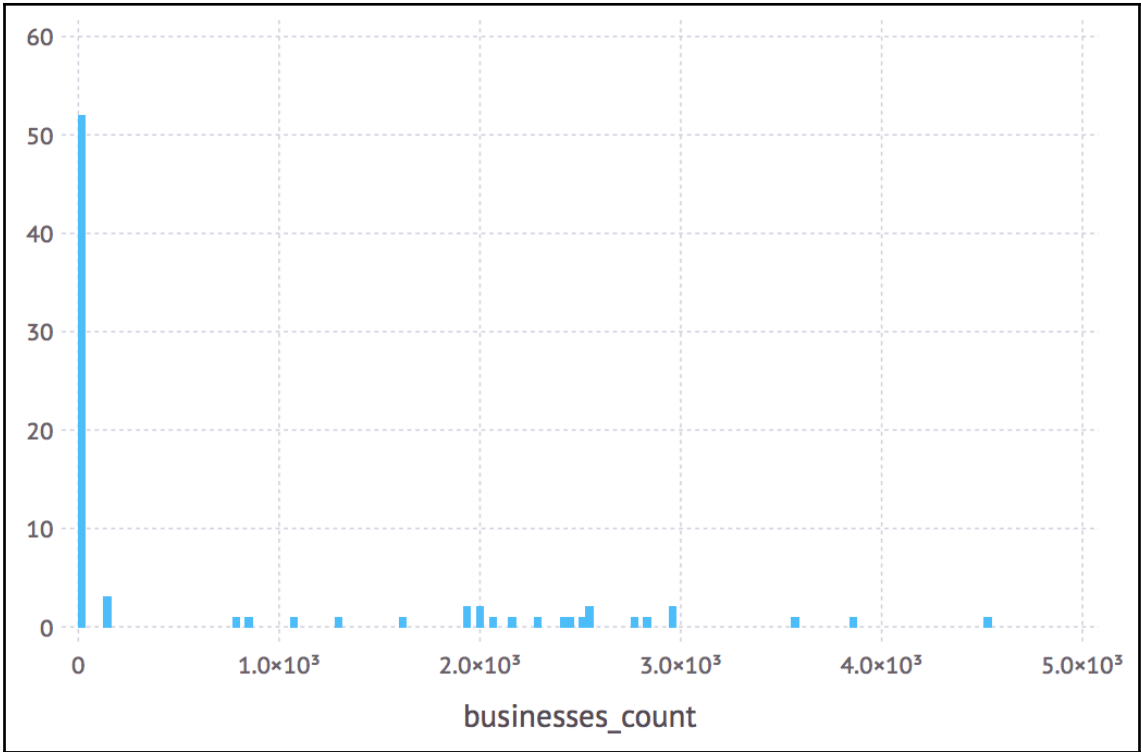
Row	DBA_Name Union{Missing, String}	Source_Zipcode Int64m	NAICS_Code Stringm	NAICS_Code_Description Union{Missing, String}	lat Float64	long Float64
1	Zaalouk Market & Deli Grocery	94109	4400-4599	Retail Trade	37.7877	-122.42
2	1-11 Lilac St Apts	94110	5300-5399	Real Estate and Rental and Leasing Services	37.7519	-122.418
3	Global-Exchange.org	94117	5100-5199	Information	37.7725	-122.45
4	3101 Laguna Apts	94123	5300-5399	Real Estate and Rental and Leasing Services	37.7998	-122.431
5	Gosha Do Co	94118	4400-4599	Retail Trade	37.7829	-122.451
6	Sunflower Restaurant	94103	7220-7229	Food Services	37.7649	-122.422
7	Academy Of Art University	94105	6100-6299	Private Education and Health Services	37.7877	-122.401
8	Burma Super Star Restaurant	94118	7220-7229	Food Services	37.783	-122.463
9	Jug Shop Inc	94106	4400-4599	Retail Trade	37.795	-122.421
10	Miller Fleming & Assocs	94104	5210-5239	Financial Services	37.7912	-122.402

79x2 DataFrame

Row	zipcode Float64	businesses_count Float64
1	94110.0	4528.0
2	94103.0	3862.0
3	94109.0	3575.0
4	94118.0	2974.0
5	94107.0	2960.0
6	94122.0	2829.0
7	94102.0	2767.0
8	94117.0	2559.0
9	94114.0	2541.0
10	94133.0	2516.0

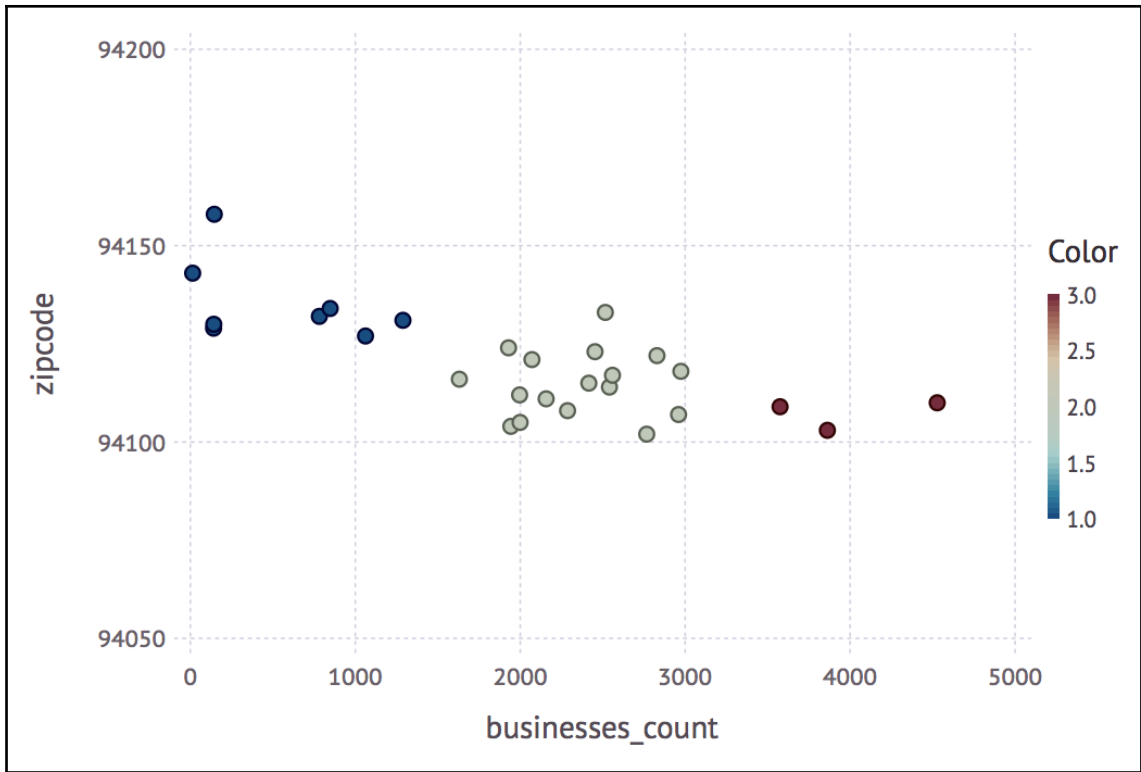
6x2 DataFrame

Row	zipcode Float64	businesses_count Float64
1	98104.0	1.0
2	95202.0	1.0
3	94546.0	1.0
4	96150.0	1.0
5	94966.0	1.0
6	94028.0	1.0

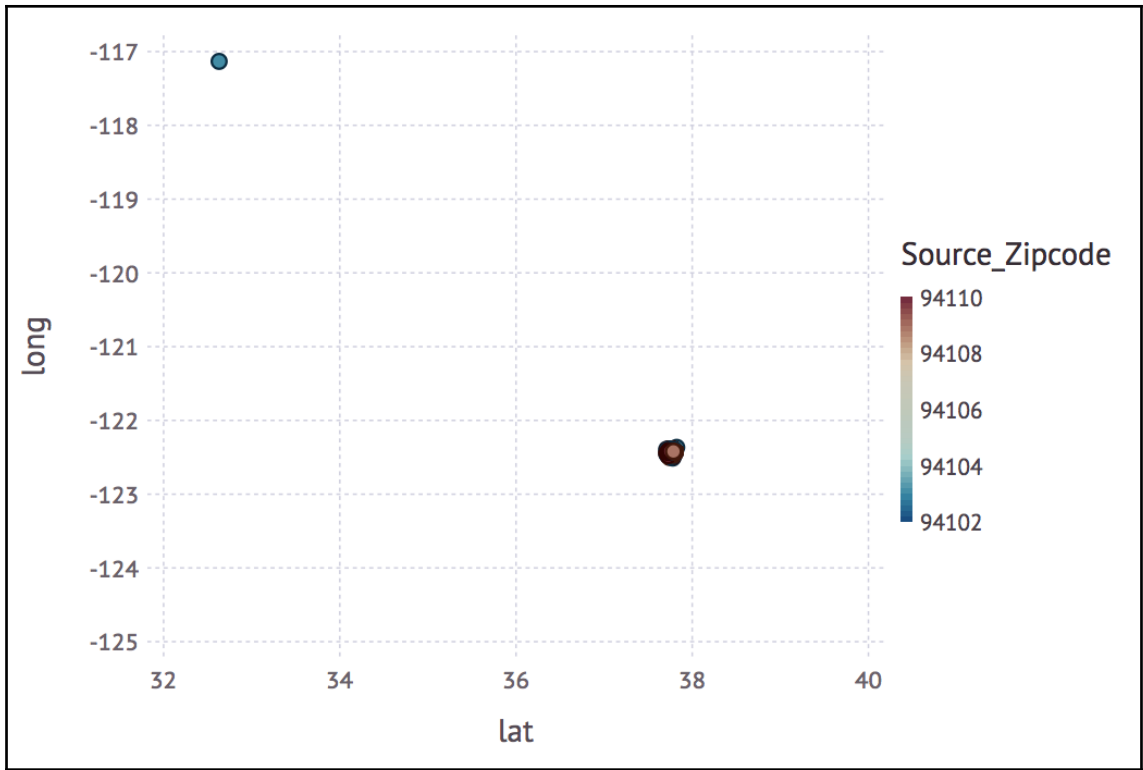


28x3 DataFrame

Row	zipcode Float64	businesses_count Float64	cluster_id Int64
1	94110.0	4528.0	3
2	94103.0	3862.0	3
3	94109.0	3575.0	3
4	94118.0	2974.0	1
5	94107.0	2960.0	1
6	94122.0	2829.0	1
7	94102.0	2767.0	1
8	94117.0	2559.0	1
9	94114.0	2541.0	1
10	94133.0	2516.0	1
11	94123.0	2453.0	1
12	94115.0	2416.0	1
13	94108.0	2287.0	1
14	94111.0	2157.0	1
15	94121.0	2071.0	1
16	94105.0	1999.0	1
17	94112.0	1996.0	1
18	94104.0	1943.0	1
19	94124.0	1929.0	1
20	94116.0	1631.0	1
21	94131.0	1289.0	2
22	94127.0	1062.0	2
23	94134.0	848.0	2
24	94132.0	782.0	2
25	94158.0	145.0	2
26	94130.0	142.0	2
27	94129.0	141.0	2
28	94143.0	14.0	2

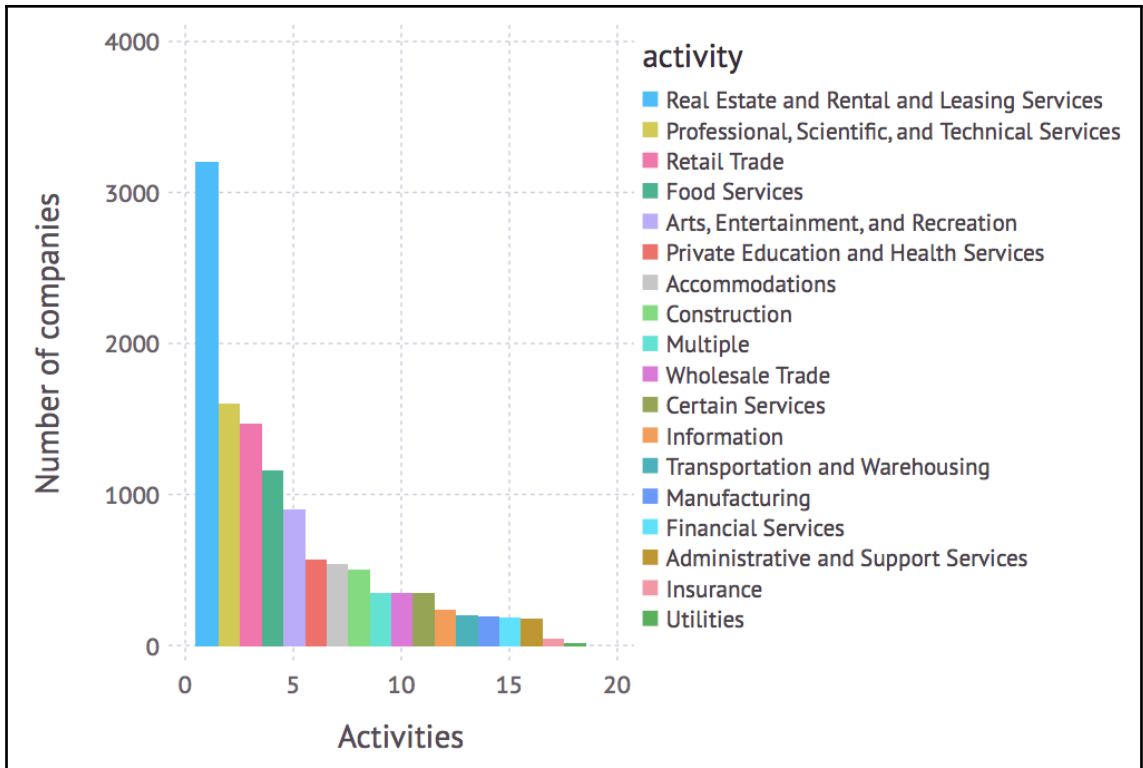


Row	DBA_Name Union(Missing, String)	Source_Zipcode Int64	NAICS_Code String	NAICS_Code_Description Union(Missing, String)	lat Float64	long Float64
1	Zaalouk Market & Deli Grocery	94109	4400-4599	Retail Trade	37.7877	-122.42
2	1-11 Lilac St Apts	94110	5300-5399	Real Estate and Rental and Leasing Services	37.7519	-122.418
3	Sunflower Restaurant	94103	7220-7229	Food Services	37.7649	-122.422
4	Bay Music & Entertainment Inc	94109	7100-7199	Arts, Entertainment, and Recreation	37.7957	-122.423
5	Impark 0376	94109	4400-4599	Retail Trade	37.7891	-122.417
6	Geologica Inc	94103	5400-5499	Professional, Scientific, and Technical Services	37.7875	-122.403
7	Impark 0315	94109	4400-4599	Retail Trade	37.7894	-122.422
8	Impark 0324	94103	4400-4599	Retail Trade	37.7867	-122.405
9	Impark 0370	94103	4400-4599	Retail Trade	37.7818	-122.405
10	Impark 0377	94103	4400-4599	Retail Trade	37.787	-122.403

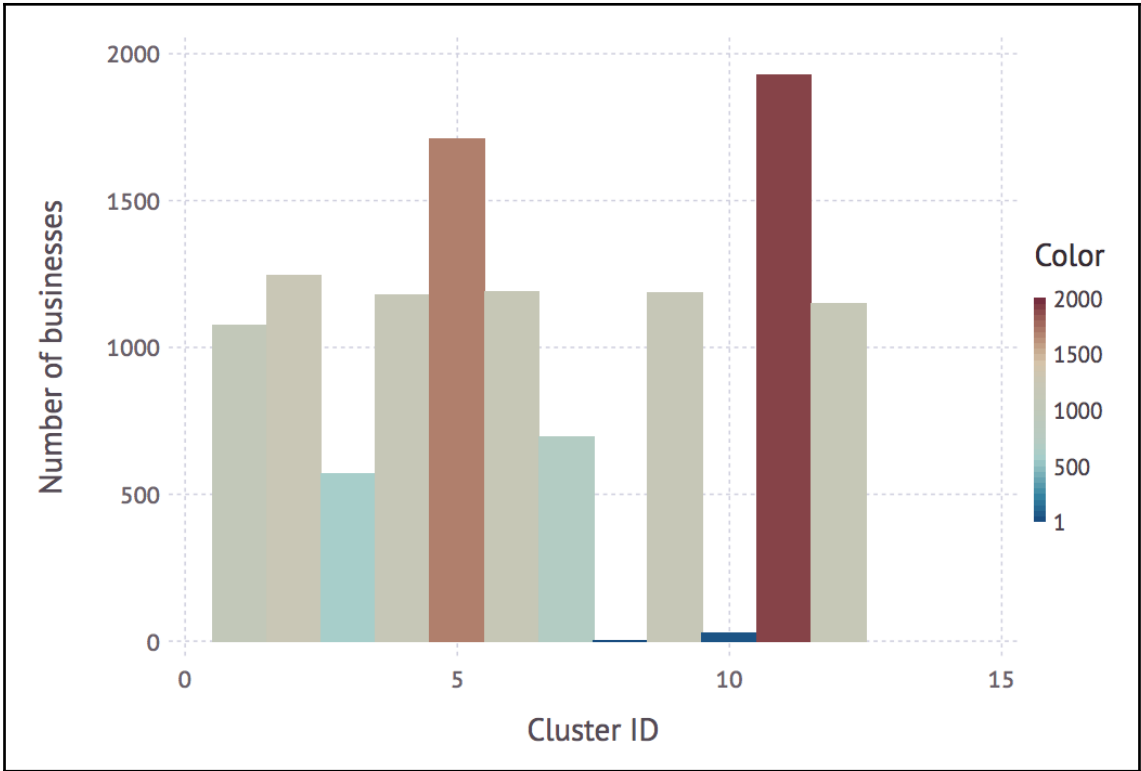


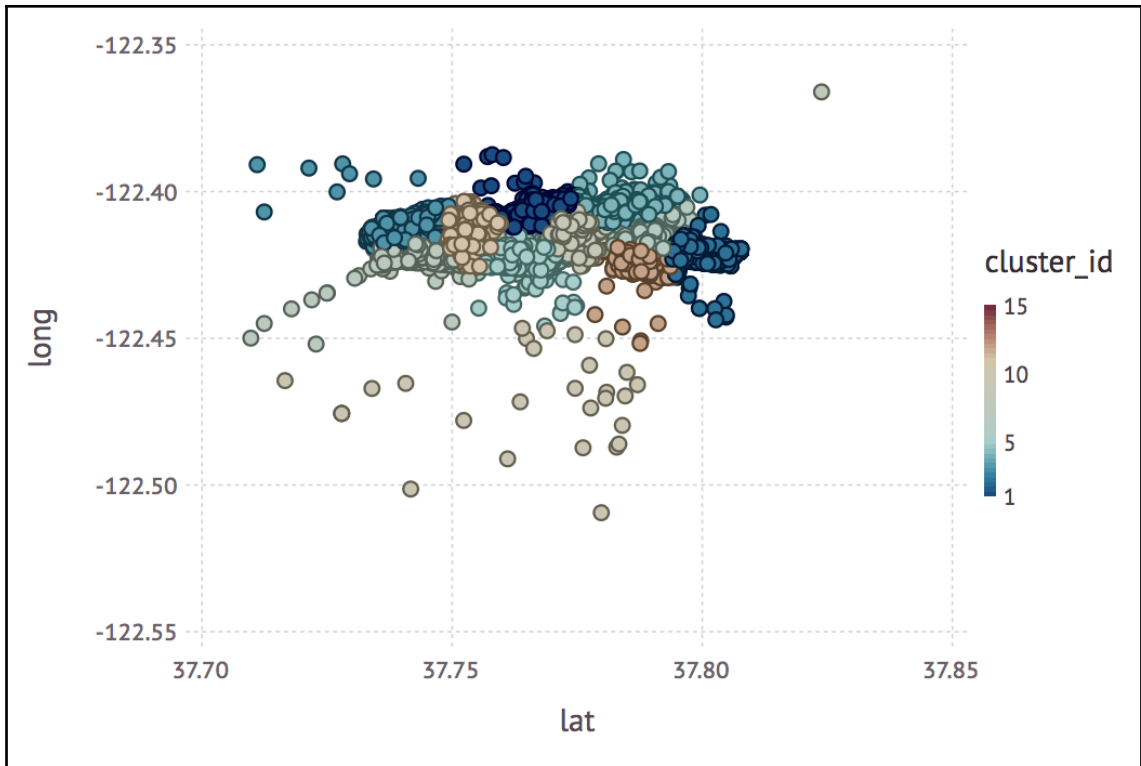
18x2 DataFrame

Row	activity Union{Missing, String}	number_of_companies Int64
1	Real Estate and Rental and Leasing Services	3198
2	Professional, Scientific, and Technical Services	1596
3	Retail Trade	1467
4	Food Services	1154
5	Arts, Entertainment, and Recreation	894
6	Private Education and Health Services	568
7	Accommodations	537
8	Construction	496
9	Multiple	343
10	Wholesale Trade	343
11	Certain Services	341
12	Information	235
13	Transportation and Warehousing	194
14	Manufacturing	187
15	Financial Services	184
16	Administrative and Support Services	176
17	Insurance	39
18	Utilities	12



11964x2 DataFrame		
Row	latitude Float64	longitude Float64
1	37.7877	-122.42
2	37.7519	-122.418
3	37.7649	-122.422
4	37.7957	-122.423
5	37.7891	-122.417
6	37.7875	-122.403
7	37.7894	-122.422
8	37.7867	-122.405
9	37.7818	-122.405
10	37.787	-122.403





11964x7 DataFrame

Row	Name Union{Missing, String}	Zip Int64	Group String	Latitude Float64	Longitude Float64	City String	State String
1	Zaalouk Market & Deli Grocery	94109	Cluster 2	37.7877	-122.42	San Francisco	CA
2	1-11 Lilac St Apts	94110	Cluster 9	37.7519	-122.418	San Francisco	CA
3	Sunflower Restaurant	94103	Cluster 5	37.7649	-122.422	San Francisco	CA
4	Bay Music & Entertainment Inc	94109	Cluster 4	37.7957	-122.423	San Francisco	CA
5	Impark 0376	94109	Cluster 8	37.7891	-122.417	San Francisco	CA
6	Geologica Inc	94103	Cluster 2	37.7875	-122.403	San Francisco	CA
7	Impark 0315	94109	Cluster 2	37.7894	-122.422	San Francisco	CA
8	Impark 0324	94103	Cluster 6	37.7867	-122.405	San Francisco	CA
9	Impark 0370	94103	Cluster 6	37.7818	-122.405	San Francisco	CA
10	Impark 0377	94103	Cluster 6	37.787	-122.403	San Francisco	CA

Paste your location data below to map it:

Example Address	City	State	Zip	Name	Phone Number	Group	URL
1 Crossgates Mall Road	Albany	NY	12203	Apple Store Crossgates	(518) 869-3199	Example Group 1	http://www.apple.com/retail...
Duke Rd & Walden Ave	Buffalo	NY	14203	Apple Store Buffalo	(716) 244-3341	Example Group 2	http://www.apple.com/retail...
630 Old Country Rd.	Garden City	NY	11530	Apple Store Roosevelt Field	(516) 244-3341	Example Group 3	http://www.apple.com/retail...
160 Walt Whitman Rd.	Huntington Station	NY	11746	Apple Store Walt Whitman	(631) 425-1563	Example Group 3	http://www.apple.com/retail...

click to copy/paste, or drop your file here

(Don't forget to include some header columns - You can also try our [Spreadsheet Template \(Excel\)](#), or hit "Map Now" and try it out with our example data.)

Validate & Set Options

Map Now

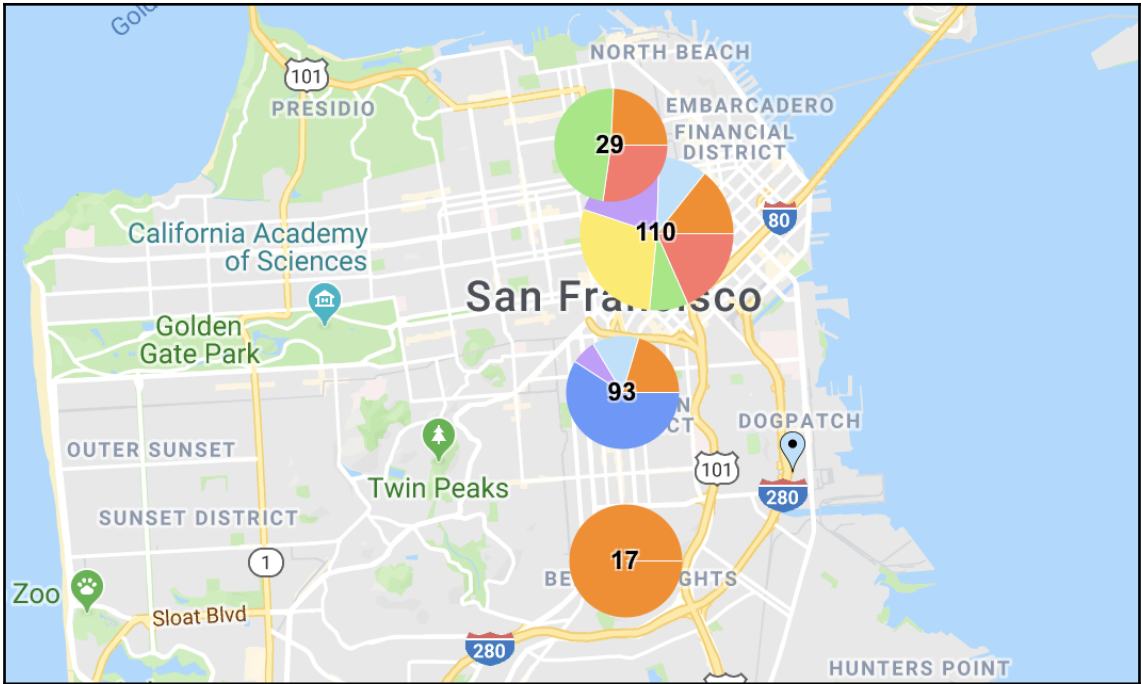
Paste your location data below to map it:

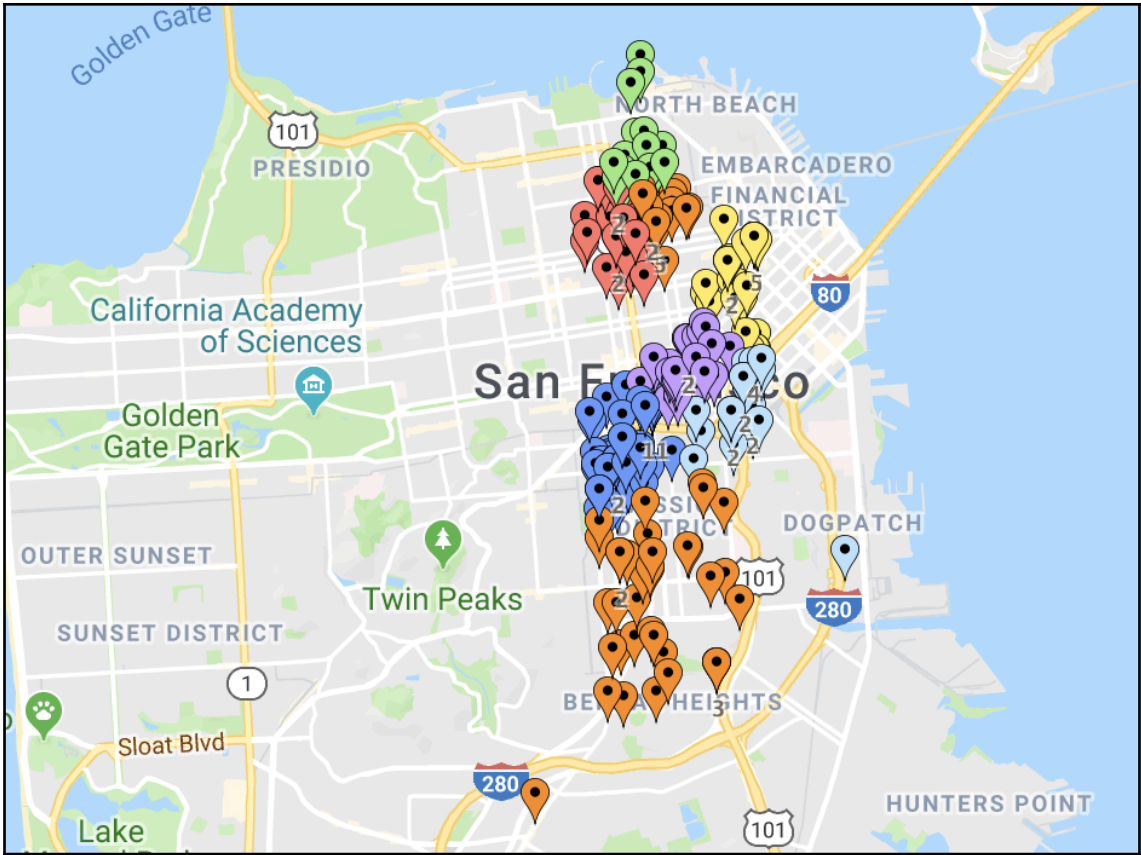
Name	Zip	Group	Latitude	Longitude	City	State
Zaalouk Market & Deli Grocery	94109	Cluster 2	37.78774	-122.420251	San Francisco	CA
1-11 Lilac St Apts	94110	Cluster 9	37.751929	-122.417839	San Francisco	CA
Sunflower Restaurant	94103	Cluster 5	37.764896	-122.422269	San Francisco	CA
Bay Music & Entertainment Inc	94109	Cluster 4	37.795667	-122.423479	San Francisco	CA

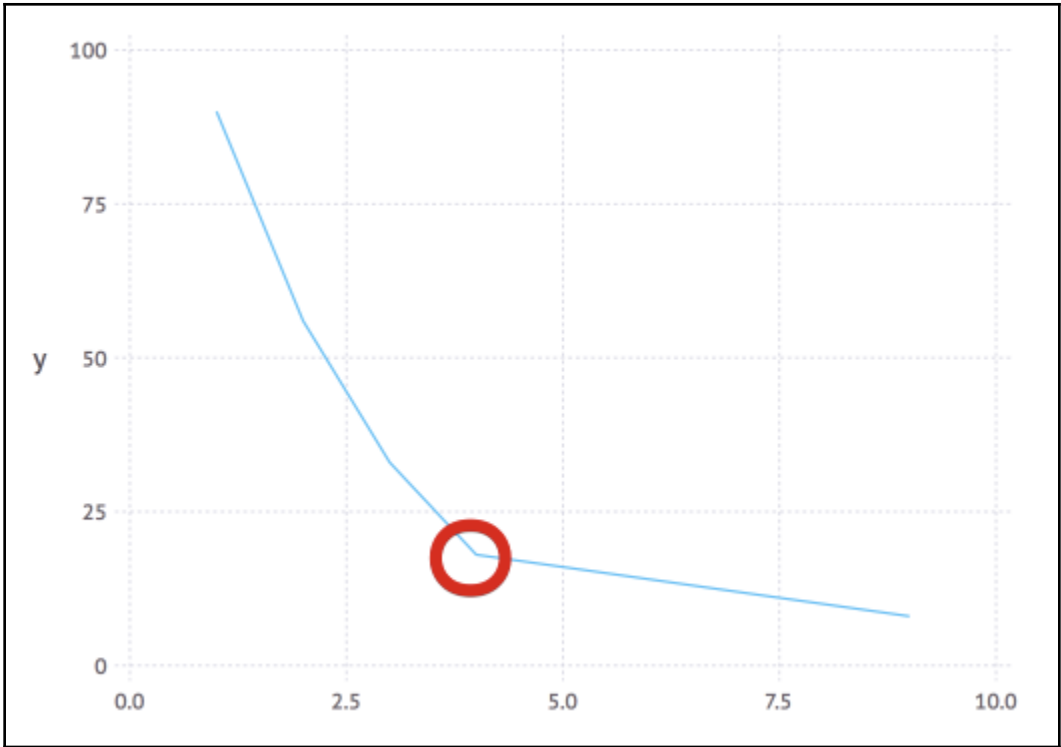
(Don't forget to include some header columns - You can also try our [Spreadsheet Template \(Excel\)](#), or hit "Map Now" and try it out with our example data.)

Validate & Set Options

Map Now



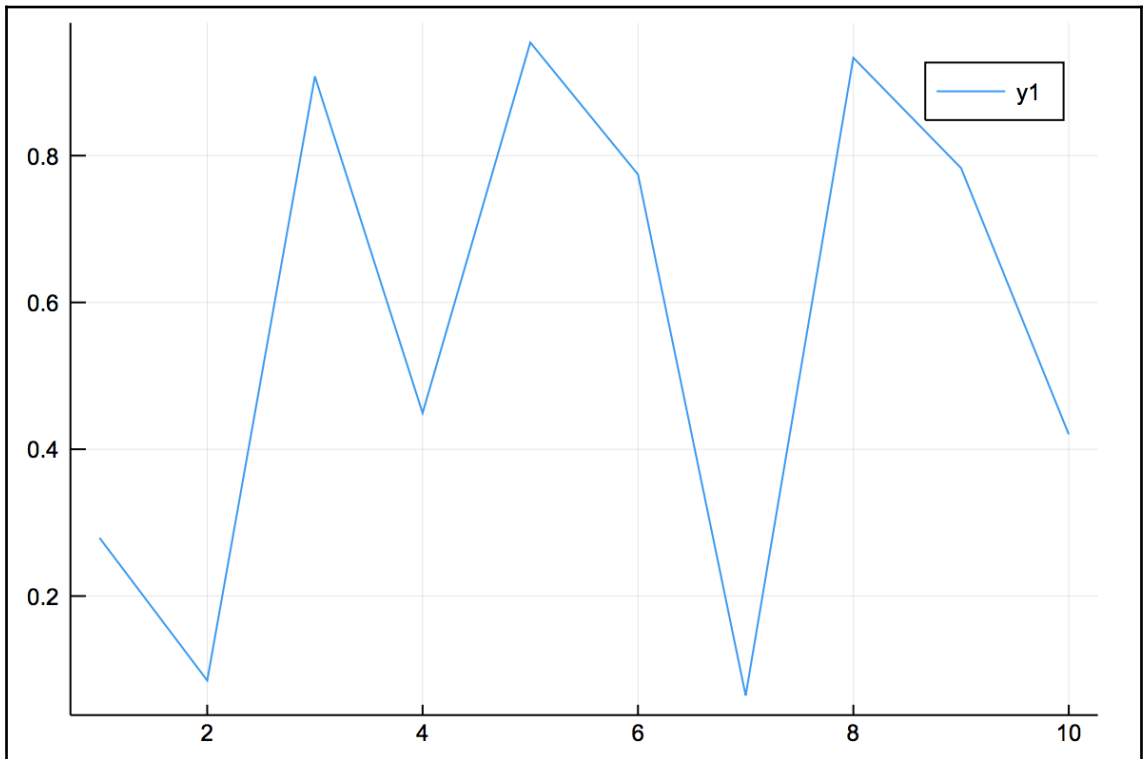


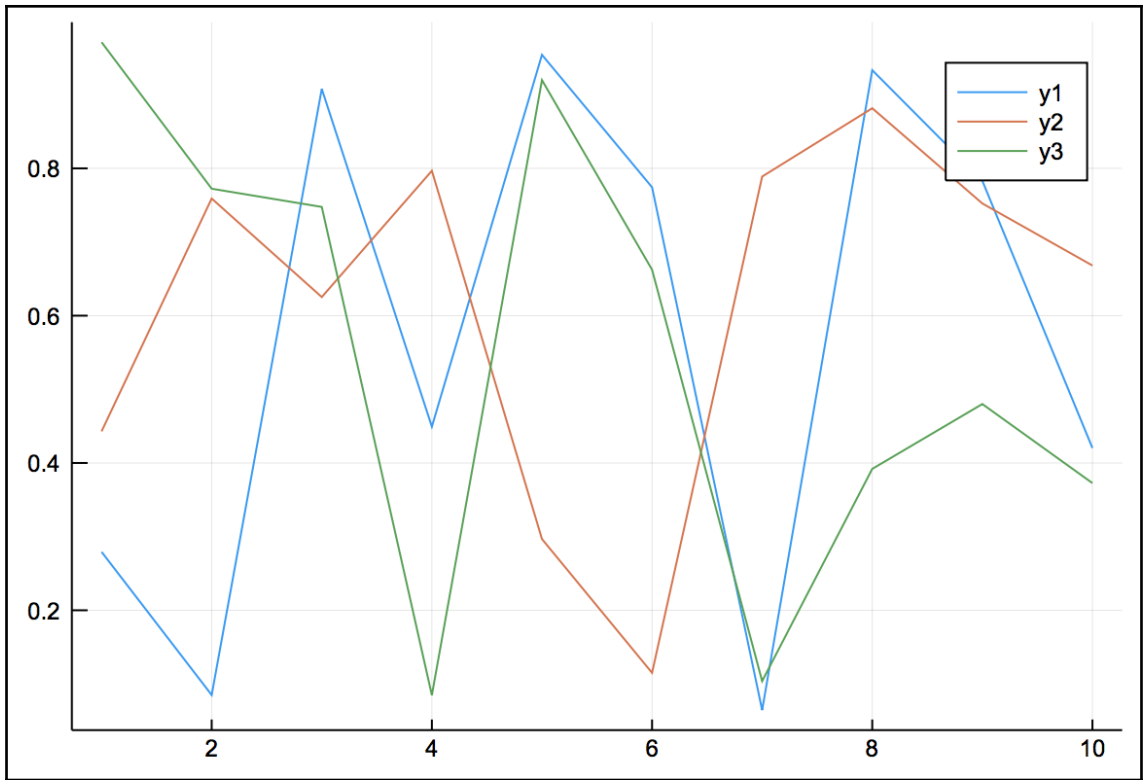


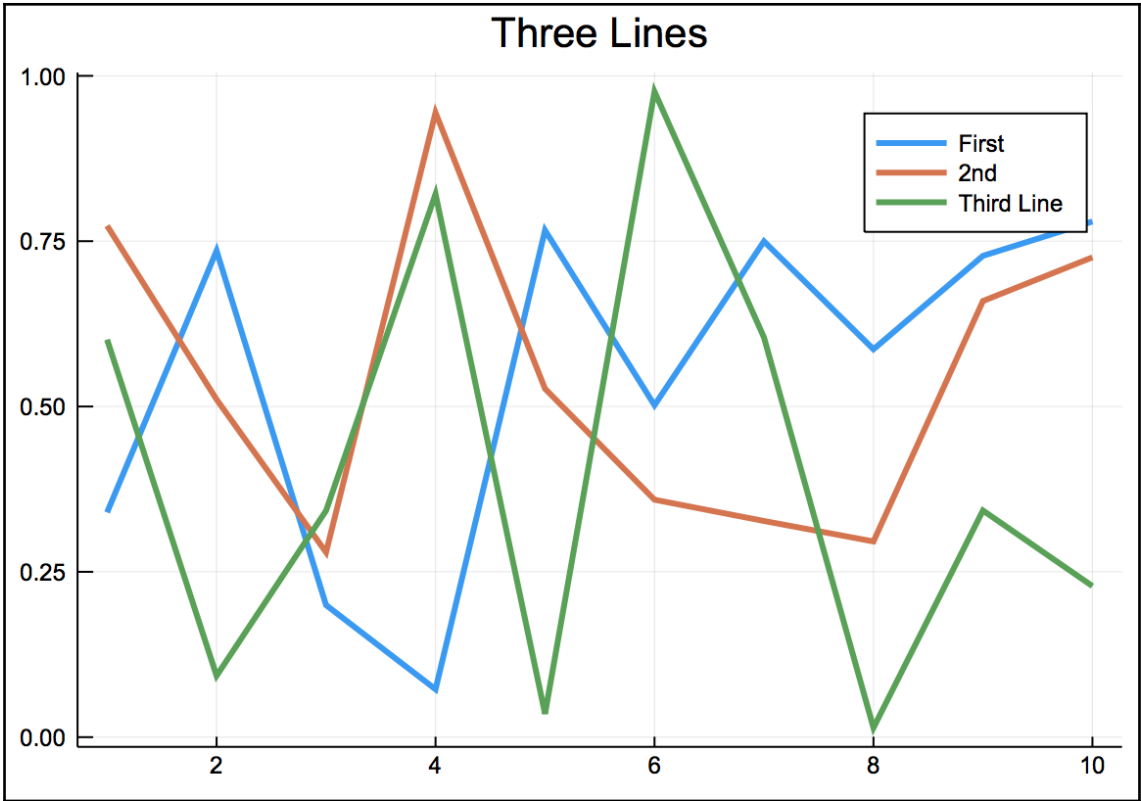
Chapter 9: Working with Dates, Times, and Time Series

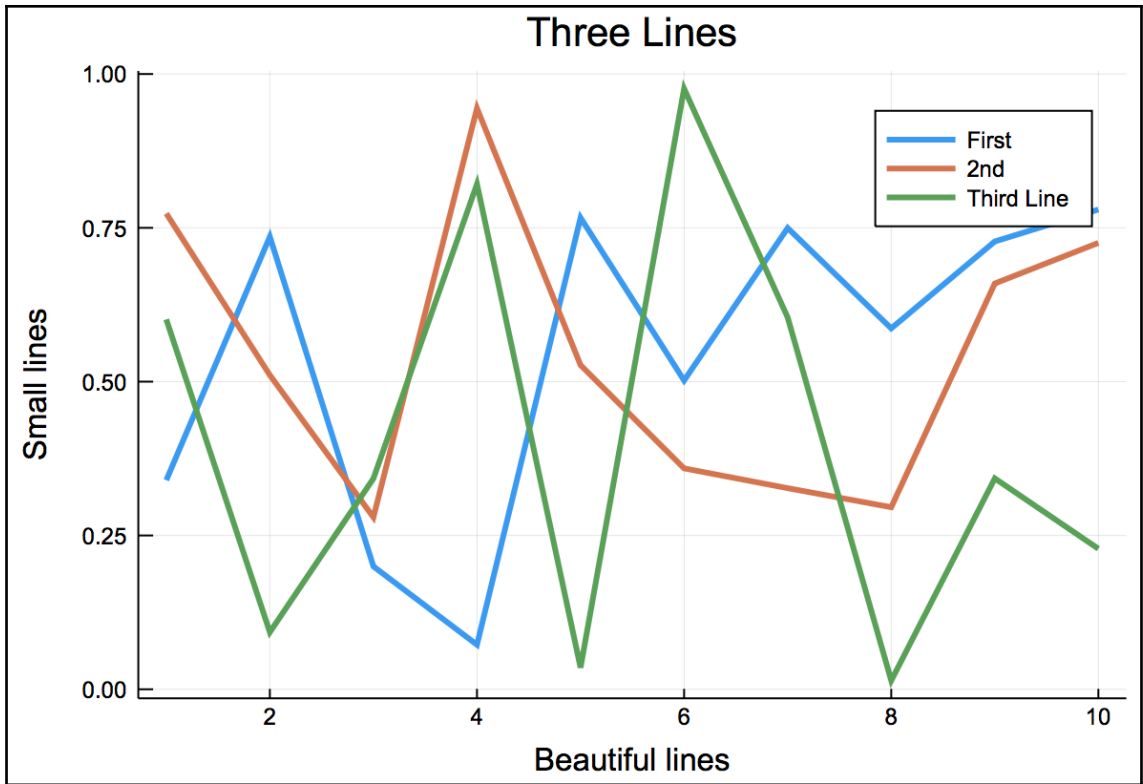
500x4 TimeArray{Float64,2,Date,Array{Float64,2}} 2000-01-03 to 2001-12-31

	Open	High	Low	Close
2000-01-03	104.88	112.5	101.69	111.94
2000-01-04	108.25	110.62	101.19	102.5
2000-01-05	103.75	110.56	103.0	104.0
2000-01-06	106.12	107.0	95.0	95.0
2000-01-07	96.5	101.0	95.5	99.5
2000-01-10	102.0	102.25	94.75	97.75
2000-01-11	95.94	99.38	90.5	92.75
2000-01-12	95.0	95.5	86.5	87.19



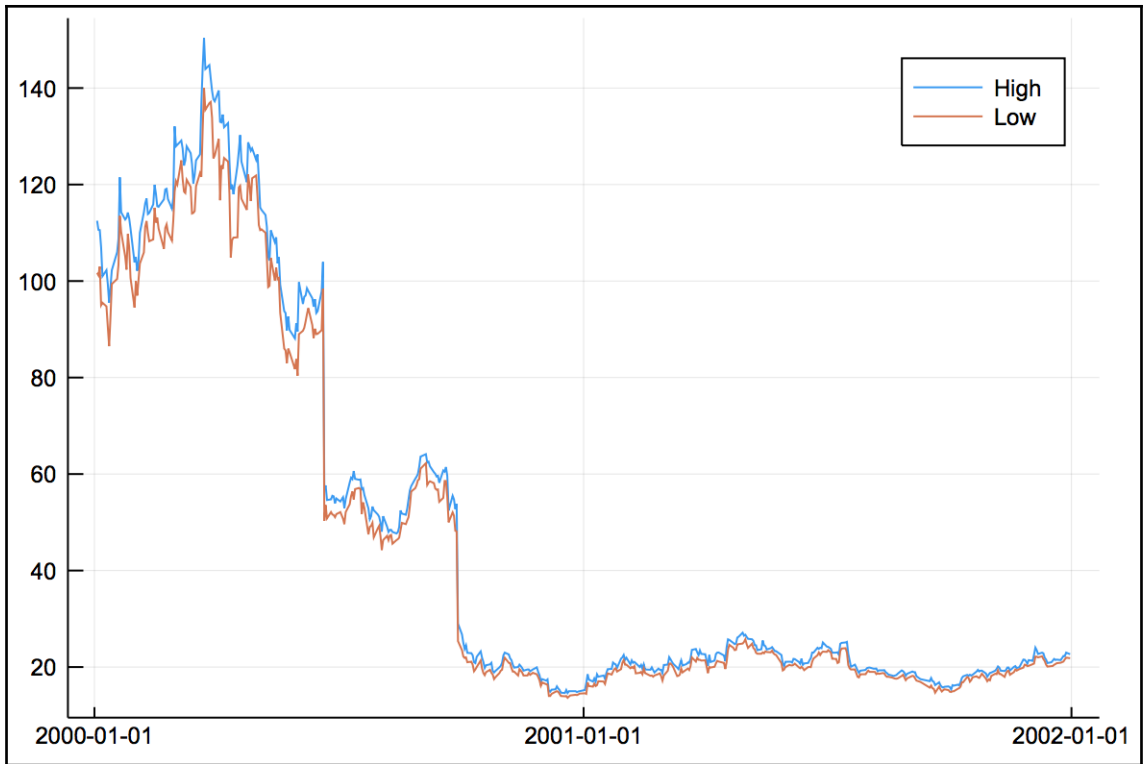












	Open	High	Low	Close
2000-01-03	104.88	112.5	101.69	111.94
2000-01-04	108.25	110.62	101.19	102.5
2000-01-05	103.75	110.56	103.0	104.0
2000-01-06	106.12	107.0	95.0	95.0
2000-01-07	96.5	101.0	95.5	99.5
2000-01-10	102.0	102.25	94.75	97.75

500x4 Array{Float64,2}:

104.88	112.5	101.69	111.94
108.25	110.62	101.19	102.5
103.75	110.56	103.0	104.0
106.12	107.0	95.0	95.0
96.5	101.0	95.5	99.5

6x4 TimeArray{Float64,2,Date,Array{Float64,2}} 2000-01-03 to 2000-01-10

	Open	High	Low	Close
2000-01-03	104.88	112.5	101.69	111.94
2000-01-04	108.25	110.62	101.19	102.5
2000-01-05	103.75	110.56	103.0	104.0
2000-01-06	106.12	107.0	95.0	95.0
2000-01-07	96.5	101.0	95.5	99.5
2000-01-10	102.0	102.25	94.75	97.75

	High
2000-01-03	112.5
2000-01-04	110.62
2000-01-05	110.56
2000-01-06	107.0

	High	Low
2000-01-03	112.5	101.69
2000-01-04	110.62	101.19
2000-01-05	110.56	103.0
2000-01-06	107.0	95.0

	Open	High	Low	Close
2000-03-22	132.78	144.38	131.56	144.19

	Open	High	Low	Close
2000-03-14	121.22	124.25	114.0	114.25
2000-03-15	115.62	120.25	114.12	116.25
2000-03-16	117.31	122.0	114.5	121.56
2000-03-17	120.12	125.0	119.62	125.0
2000-03-20	123.5	126.25	122.38	123.0
2000-03-21	122.56	136.75	121.62	134.94
2000-03-22	132.78	144.38	131.56	144.19
2000-03-23	142.0	150.38	140.0	141.31
2000-03-24	142.44	143.94	135.5	138.69
2000-03-27	137.62	144.75	136.88	139.56
2000-03-28	137.25	142.0	137.12	139.12

	Open	High	Low	Close
2000-01-11	95.94	99.38	90.5	92.75
2000-01-21	114.25	114.25	110.19	111.31
2000-02-01	104.0	105.0	100.0	100.25
2000-02-10	112.88	113.88	110.0	113.5
2000-02-22	110.12	116.94	106.69	113.81
2000-03-02	127.0	127.94	120.69	122.0
2000-03-13	122.12	126.5	119.5	121.31
2000-03-20	123.5	126.25	122.38	123.0
2000-03-21	122.56	136.75	121.62	134.94
2000-03-22	132.78	144.38	131.56	144.19
2000-03-23	142.0	150.38	140.0	141.31
2000-03-31	127.44	137.25	126.0	135.81
2000-04-11	123.5	124.88	118.06	119.44

	Open	High	Low	Close
2000-03-22	132.78	144.38	131.56	144.19

	Open	High	Low	Close
2000-03-20	123.5	126.25	122.38	123.0
2000-03-21	122.56	136.75	121.62	134.94
2000-03-22	132.78	144.38	131.56	144.19
2000-03-23	142.0	150.38	140.0	141.31

	High	Low
2000-03-20	126.25	122.38
2000-03-21	136.75	121.62
2000-03-22	144.38	131.56
2000-03-23	150.38	140.0
2000-03-24	143.94	135.5

	Open	High	Low	Close
2000-03-22	132.78	144.38	131.56	144.19
2000-03-23	142.0	150.38	140.0	141.31
2000-03-24	142.44	143.94	135.5	138.69
2000-03-27	137.62	144.75	136.88	139.56
2000-03-28	137.25	142.0	137.12	139.12

	V1
2018-11-08	0.9199
2018-11-09	0.2914
2018-11-10	0.3226
2018-11-11	0.7523
2018-11-12	0.1259
2018-11-13	0.4498
2018-11-14	0.9366
2018-11-15	0.1943

	V2
2018-11-08	0.8039
2018-11-09	0.0753
2018-11-10	0.3964
2018-11-11	0.4068
2018-11-12	0.9322
2018-11-13	0.9196
2018-11-14	0.6745
2018-11-15	0.5368
2018-11-16	0.8061
2018-11-17	0.8796
2018-11-18	0.5846

	V1	V2
2018-11-08	0.9199	0.8039
2018-11-09	0.2914	0.0753
2018-11-10	0.3226	0.3964
2018-11-11	0.7523	0.4068
2018-11-12	0.1259	0.9322
2018-11-13	0.4498	0.9196
2018-11-14	0.9366	0.6745
2018-11-15	0.1943	0.5368

	V1	V2
2018-11-08	0.9199	0.8039
2018-11-09	0.2914	0.0753
2018-11-10	0.3226	0.3964
2018-11-11	0.7523	0.4068
2018-11-12	0.1259	0.9322
2018-11-13	0.4498	0.9196
2018-11-14	0.9366	0.6745
2018-11-15	0.1943	0.5368
2018-11-16	NaN	0.8061
2018-11-17	NaN	0.8796
2018-11-18	NaN	0.5846

	V1
2018-11-22	0.9044
2018-11-23	0.7665
2018-11-24	0.3149
2018-11-25	0.2854
2018-11-26	0.109
2018-11-27	0.324
2018-11-28	0.7132
2018-11-29	0.7046

	V1
2018-11-08	0.9199
2018-11-09	0.2914
2018-11-10	0.3226
2018-11-11	0.7523
2018-11-12	0.1259
2018-11-13	0.4498
2018-11-14	0.9366
2018-11-15	0.1943
2018-11-22	0.9044
2018-11-23	0.7665
2018-11-24	0.3149
2018-11-25	0.2854
2018-11-26	0.109
2018-11-27	0.324
2018-11-28	0.7132
2018-11-29	0.7046


	values
2018-01-01	0.2241
2018-01-02	0.0431
2018-01-03	0.6478
2018-01-04	0.5862
2018-01-05	0.3729
2018-01-06	0.2994
2018-01-07	0.8512
2018-01-08	0.8587
2018-01-09	0.4847
2018-01-10	0.9509
2018-01-11	0.5016
2018-01-12	0.7146
2018-01-13	0.5238
2018-01-14	0.2815
2018-01-15	0.6264
2018-01-16	0.002
2018-01-17	0.895
2018-01-18	0.9428
2018-01-19	0.8887
2018-01-20	0.1303
2018-01-21	0.9959
2018-01-22	0.6023
2018-01-23	0.8203
2018-01-24	0.1072
2018-01-25	0.6632
2018-01-26	0.1004
2018-01-27	0.9838
2018-01-28	0.4962
2018-01-29	0.0499
2018-01-30	0.6711
2018-01-31	0.7284

	values
2018-01-07	0.4321
2018-01-14	0.6165
2018-01-21	0.6401
2018-01-28	0.5391
2018-01-31	0.4831

	values
2018-01-01	0.2241
2018-01-08	0.8587
2018-01-15	0.6264
2018-01-22	0.6023
2018-01-29	0.0499

	values
2019-01-01	0.2241
2019-01-02	0.0431
2019-01-03	0.6478
2019-01-04	0.5862
2019-01-05	0.3729
2019-01-06	0.2994
2019-01-07	0.8512

Chapter 10: Time Series Forecasting



Full extraction [1 data tables]

Single file

Multiple files

Flags and footnotes

Cell formatting


1.234,56

1,234.56

1 234.56

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Unemployment by sex and age - monthly average [une_rt_m]

Last update: 24-04-2018

Table Customization [show](#)

TIME

Age class

GEO

Unit of measure

Seasonal adjustment

Unadjusted data (i.e. neither seasonally adjusted)

Sex

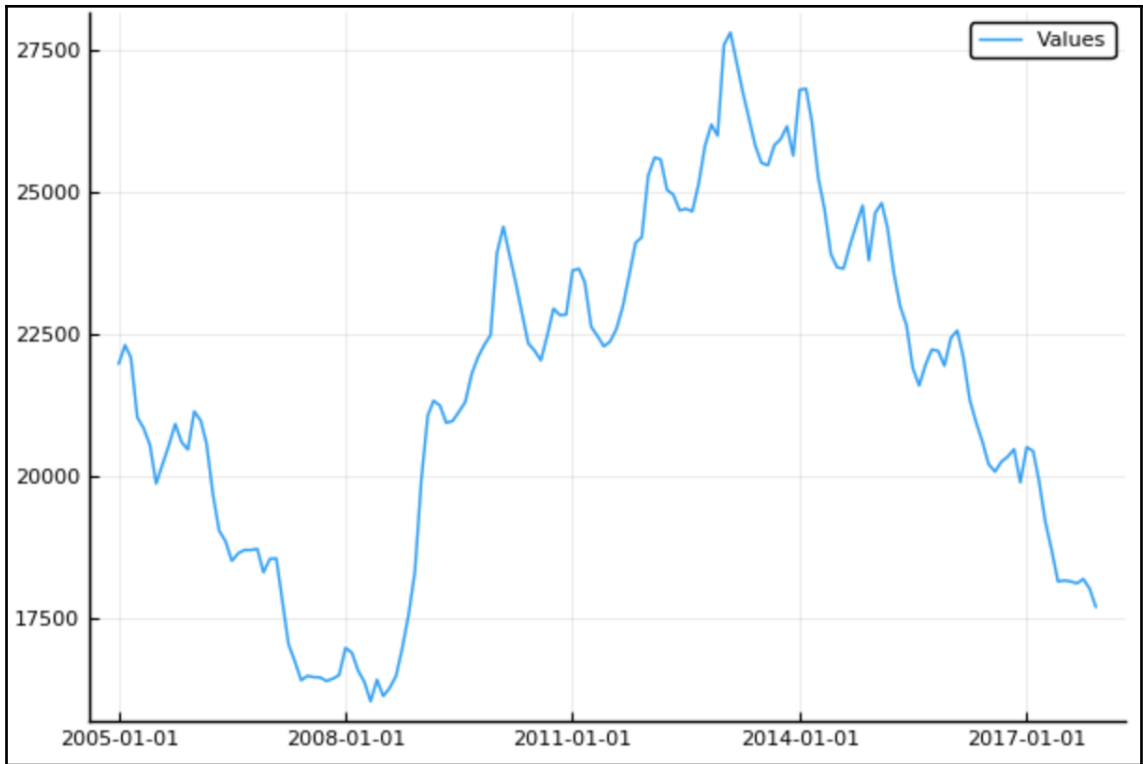
	2005M01	2005M02	2005M03	2005M04	2005M05	2005M06	2005M07	2005M08
European Union (current com)	21,974	22,303	22,085	21,036	20,849	20,549	19,873	20,21

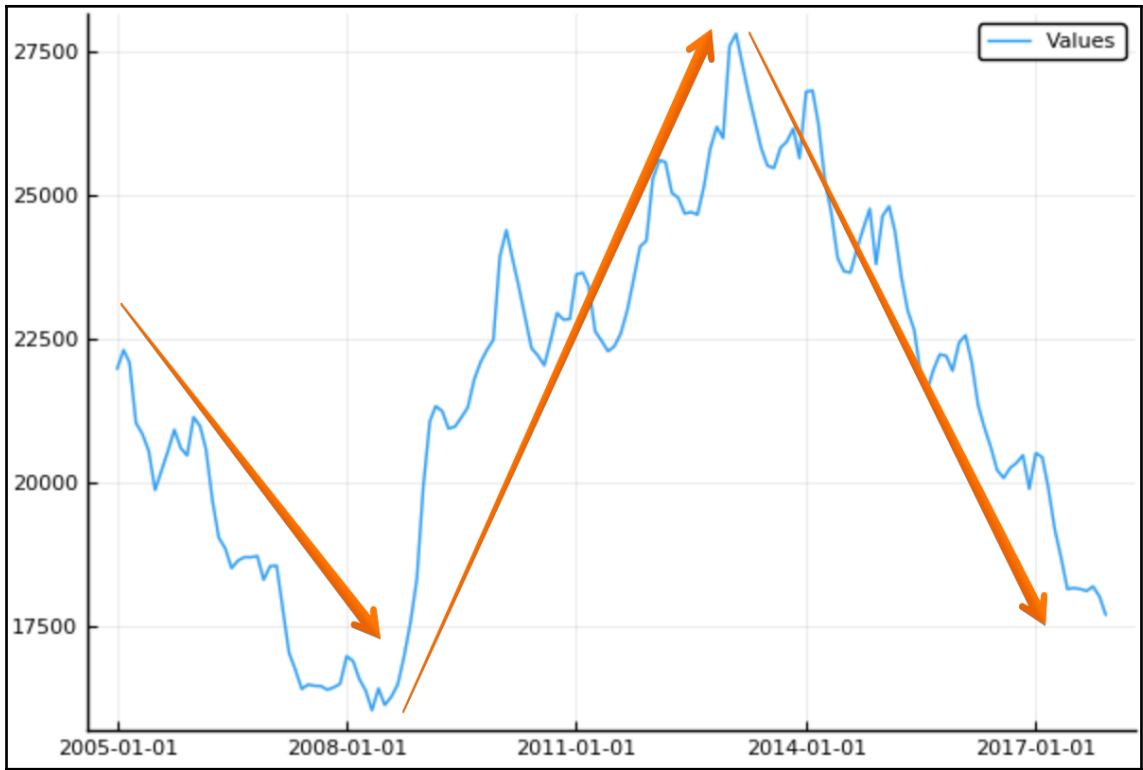
Special value:
: not available

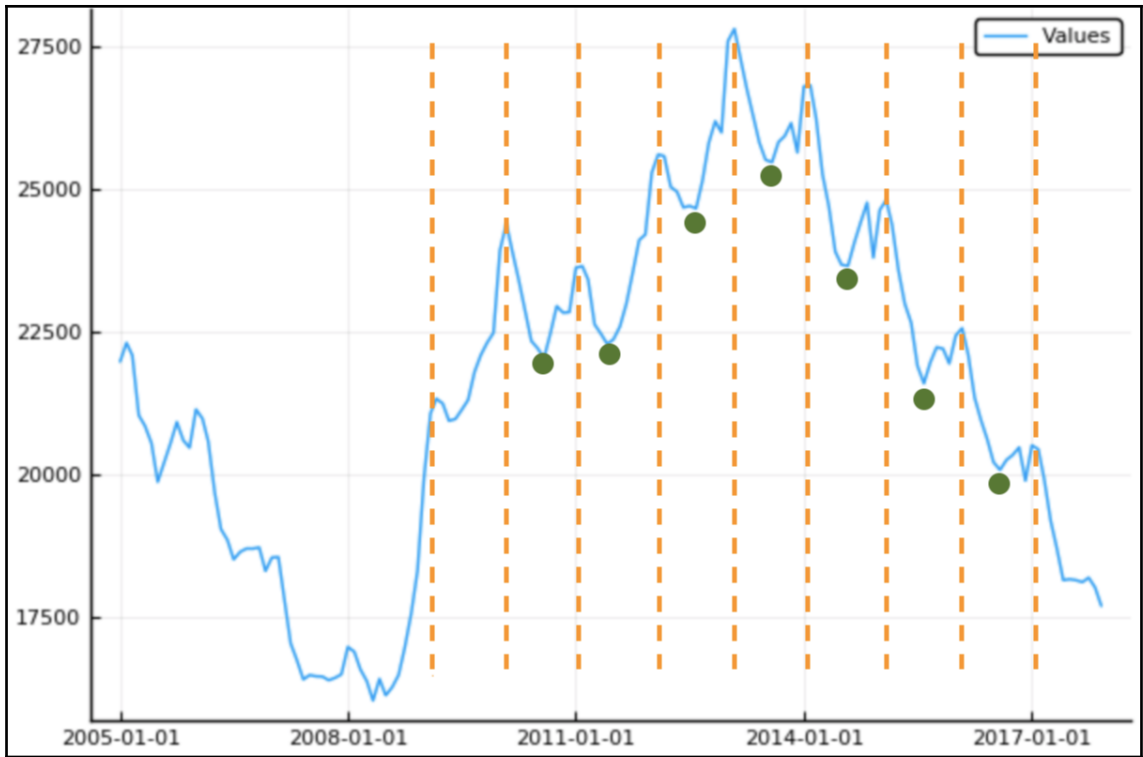
Source of data: Eurostat

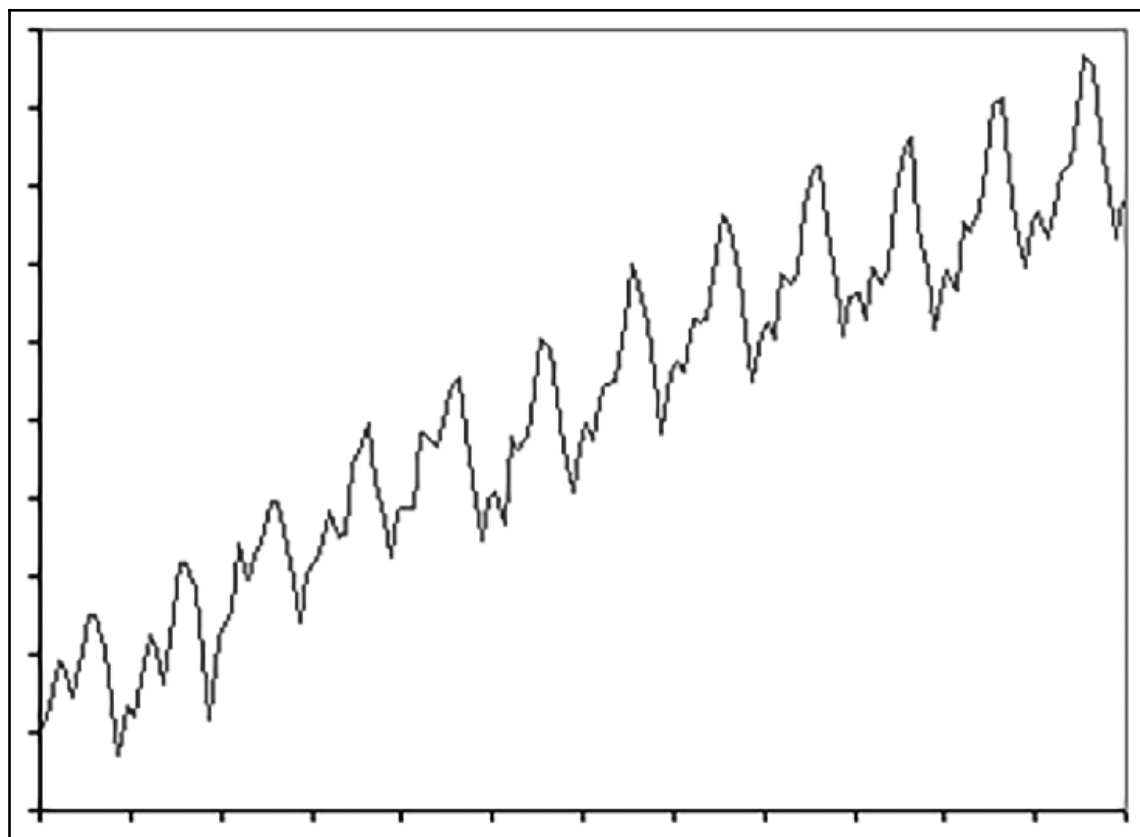
GEO,S_ADJ,AGE,UNIT,SEX\TIME	2005M01	2005M02	2005M03	2005M04	2005M05	2005M06	2005M07	2005M08	2005M09	2005M10	2005M11	2005M12
	String	String	String	String	String	String	String	String	String	String	String	String
1 European Union (current composition),Unadjusted data (i.e. neither seasonally adjusted nor calendar adjusted data),Total,Thousand persons>Total	21 974	22 303	22 085	21 036	20 849	20 549	19 873	20 210	20 554	20 919	20 599	20 470

	Values
2005-01-01	21974.0
2005-02-01	22303.0
2005-03-01	22085.0
2005-04-01	21036.0
2005-05-01	20849.0
2005-06-01	20549.0
2005-07-01	19873.0
2005-08-01	20210.0
2005-09-01	20554.0
2005-10-01	20919.0

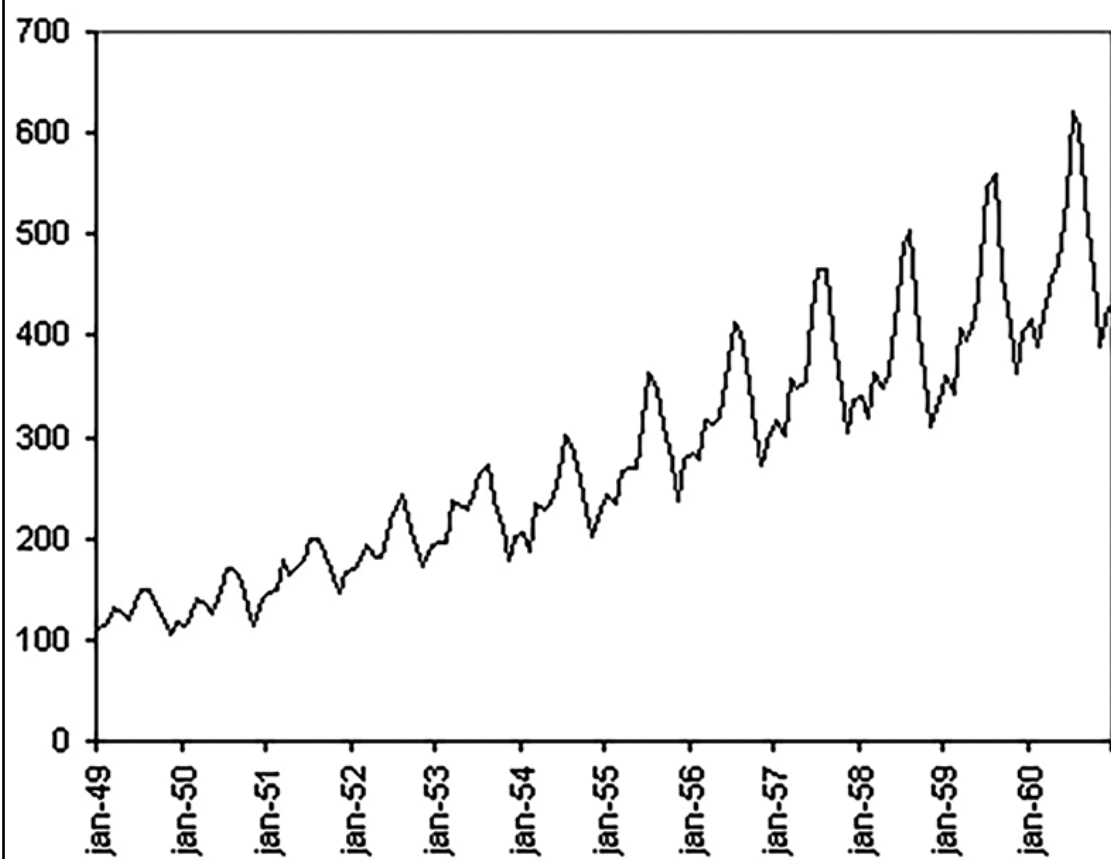


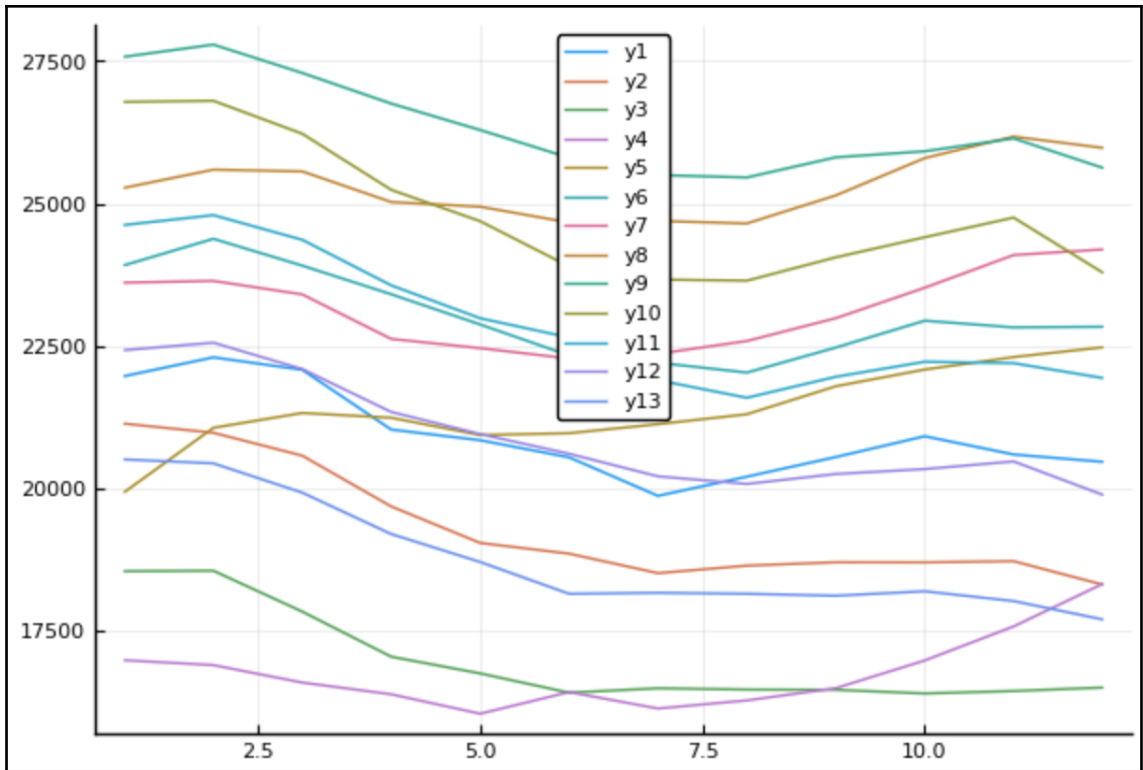






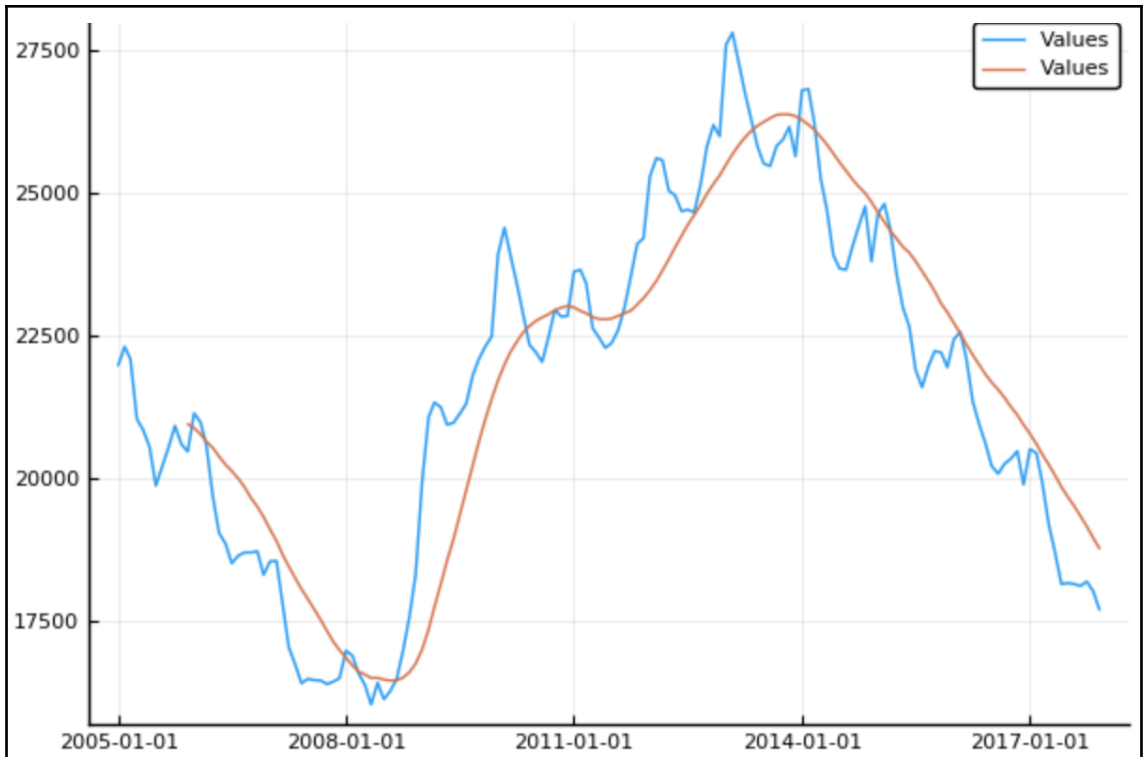
International airline passenger (thousands)



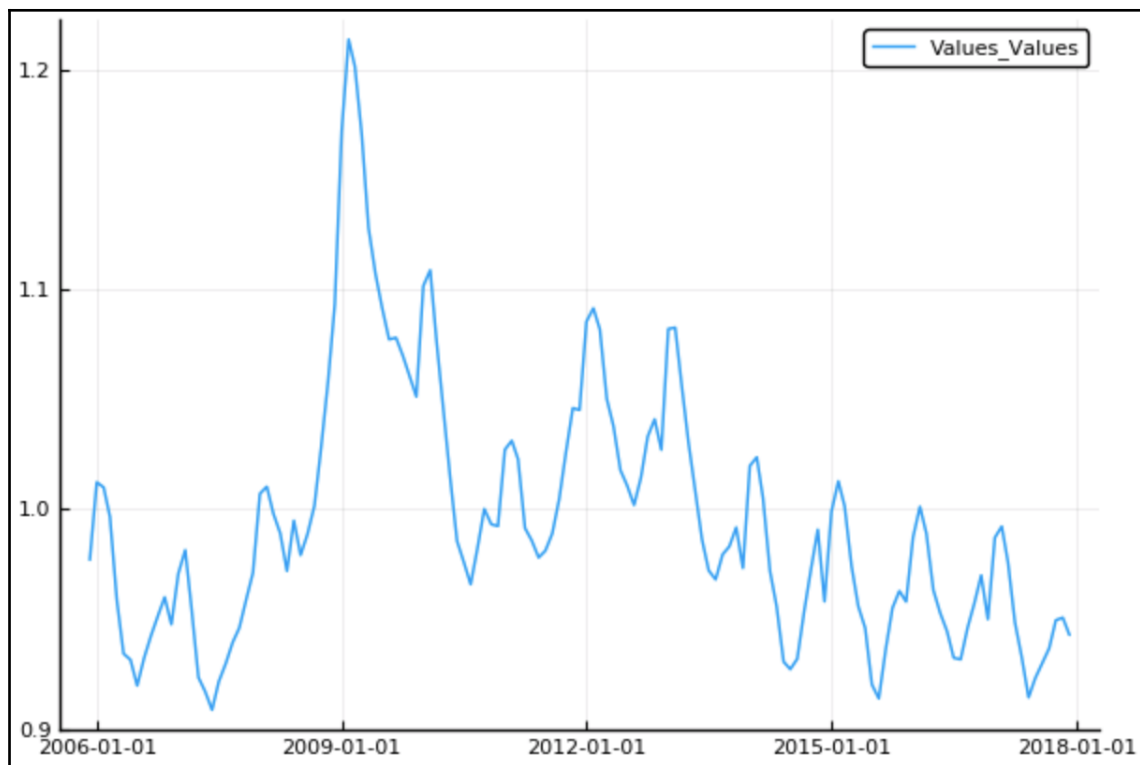


	Values
2005-12-01	20951.75
2006-01-01	20882.25
2006-02-01	20772.0
2006-03-01	20646.4167
2006-04-01	20534.0

	Values
2005-01-01	NaN
2005-02-01	NaN
2005-03-01	NaN
2005-04-01	NaN
2005-05-01	NaN
2005-06-01	NaN
2005-07-01	NaN
2005-08-01	NaN
2005-09-01	NaN
2005-10-01	NaN
2005-11-01	NaN
2005-12-01	20951.75
2006-01-01	20882.25
2006-02-01	20772.0
2006-03-01	20646.4167
2006-04-01	20534.0



	Values_Values
2005-12-01	0.977
2006-01-01	1.0123
2006-02-01	1.01
2006-03-01	0.9967
2006-04-01	0.9588
2006-05-01	0.9344



	Values
2005-01-01	21091.4818
2005-02-01	21223.4656
2005-03-01	21353.0066
2005-04-01	20920.3252
2005-05-01	21123.5518

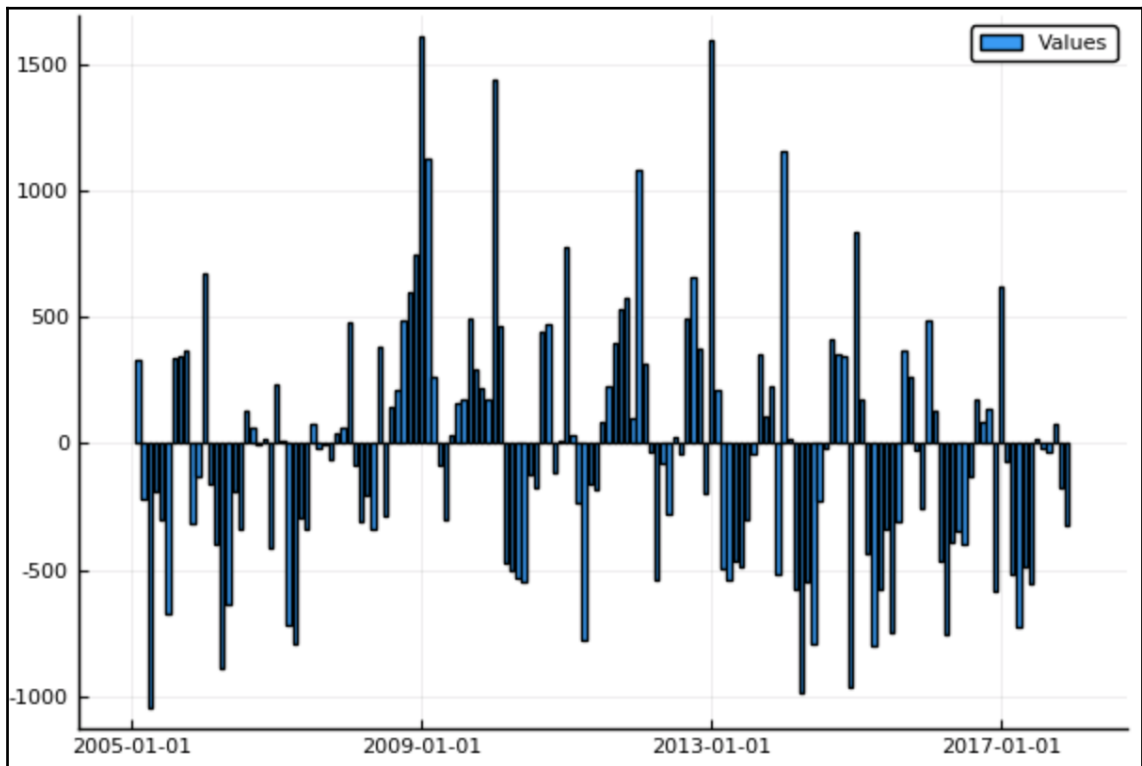
	A
2018-11-06	0.3903
2018-11-07	0.5231
2018-11-08	0.104
2018-11-09	0.5523
2018-11-10	0.5699
2018-11-11	0.4076
2018-11-12	0.4027
2018-11-13	0.4274

	A
2018-11-06	0.2467
2018-11-07	0.3953
2018-11-08	0.018
2018-11-09	0.7987
2018-11-10	0.729
2018-11-11	0.2403
2018-11-12	0.465
2018-11-13	0.7496

	A_A
2018-11-06	true
2018-11-07	true
2018-11-08	true
2018-11-09	false
2018-11-10	false
2018-11-11	true
2018-11-12	false
2018-11-13	false

	A_A
2018-11-06	false
2018-11-07	false
2018-11-08	false
2018-11-09	true
2018-11-10	true
2018-11-11	false
2018-11-12	true
2018-11-13	true

	Values
2005-02-01	329.0
2005-03-01	-218.0
2005-04-01	-1049.0
2005-05-01	-187.0
2005-06-01	-300.0
2005-07-01	-676.0

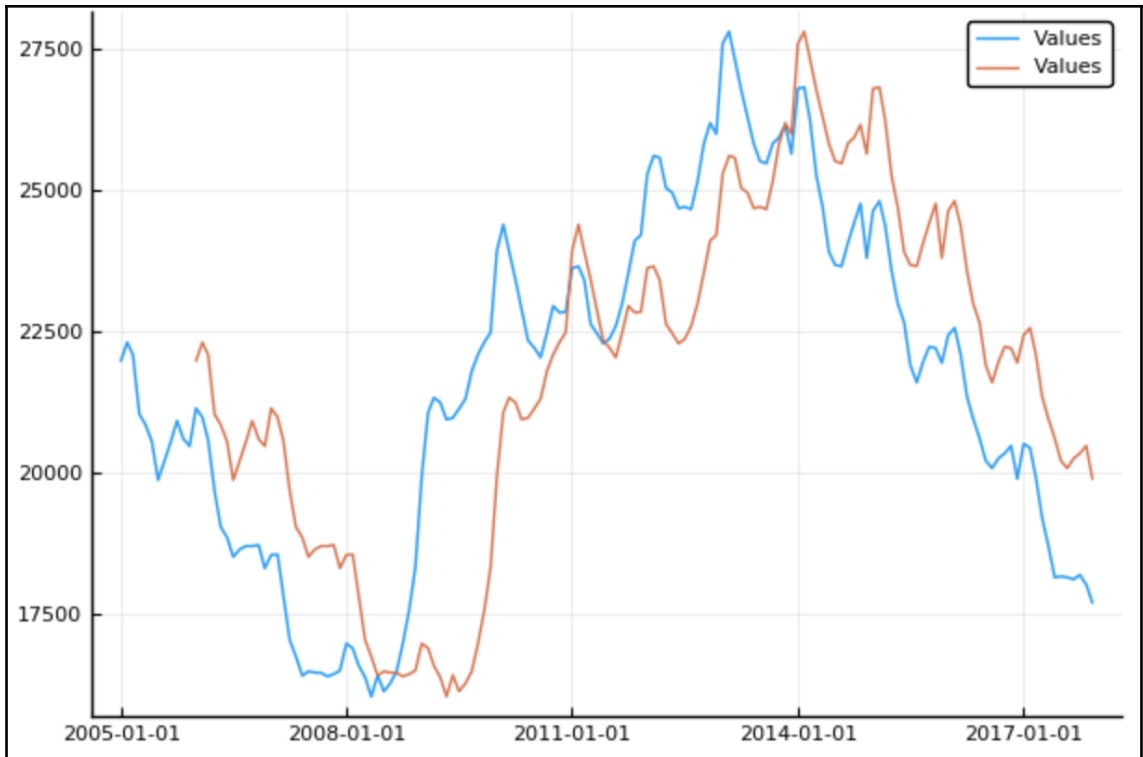


	A
2018-11-06	0.3903
2018-11-07	0.5231
2018-11-08	0.104
2018-11-09	0.5523
2018-11-10	0.5699
2018-11-11	0.4076
2018-11-12	0.4027
2018-11-13	0.4274

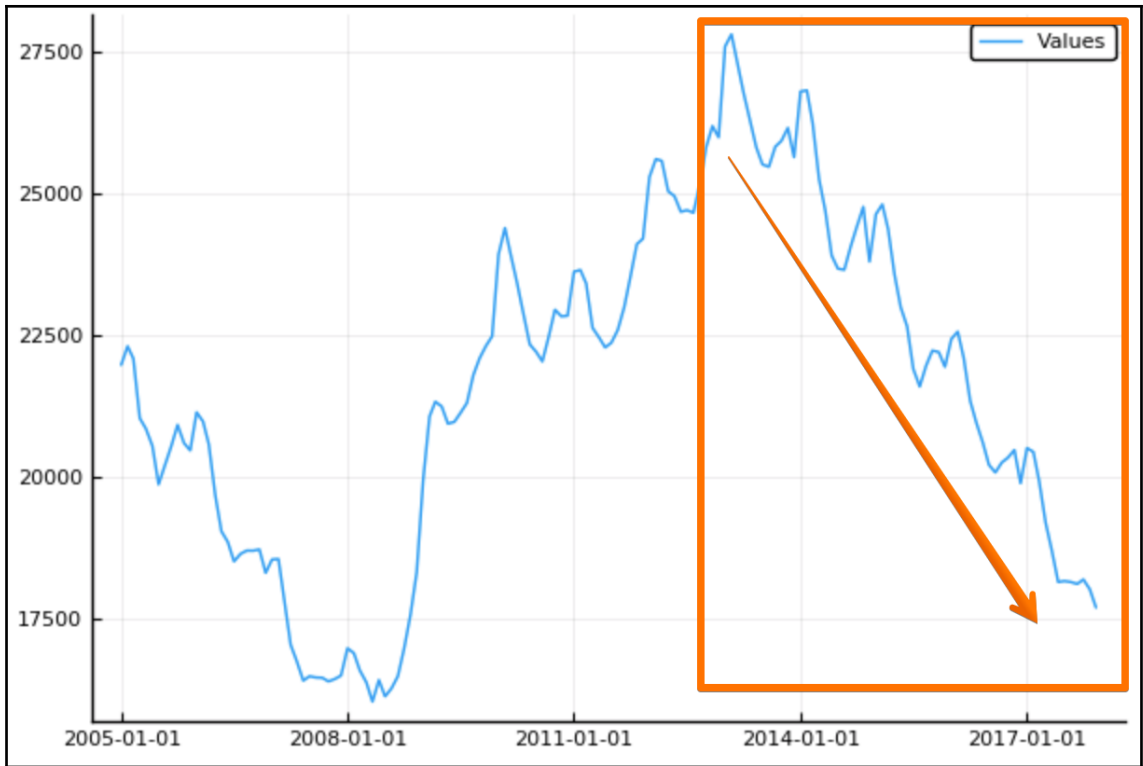
	A
2018-11-07	0.3903
2018-11-08	0.5231
2018-11-09	0.104
2018-11-10	0.5523
2018-11-11	0.5699
2018-11-12	0.4076
2018-11-13	0.4027

	Values
2006-01-01	21974.0
2006-02-01	22303.0
2006-03-01	22085.0
2006-04-01	21036.0
2006-05-01	20849.0

	Values	Values_1
2006-01-01	21140.0	21974.0
2006-02-01	20980.0	22303.0
2006-03-01	20578.0	22085.0
2006-04-01	19687.0	21036.0
2006-05-01	19047.0	20849.0
2006-06-01	18859.0	20549.0



2017-07-01	18172.0
2017-08-01	18155.0
2017-09-01	18121.0
2017-10-01	18199.0
2017-11-01	18027.0
2017-12-01	17705.0
2018-01-01	18446.0

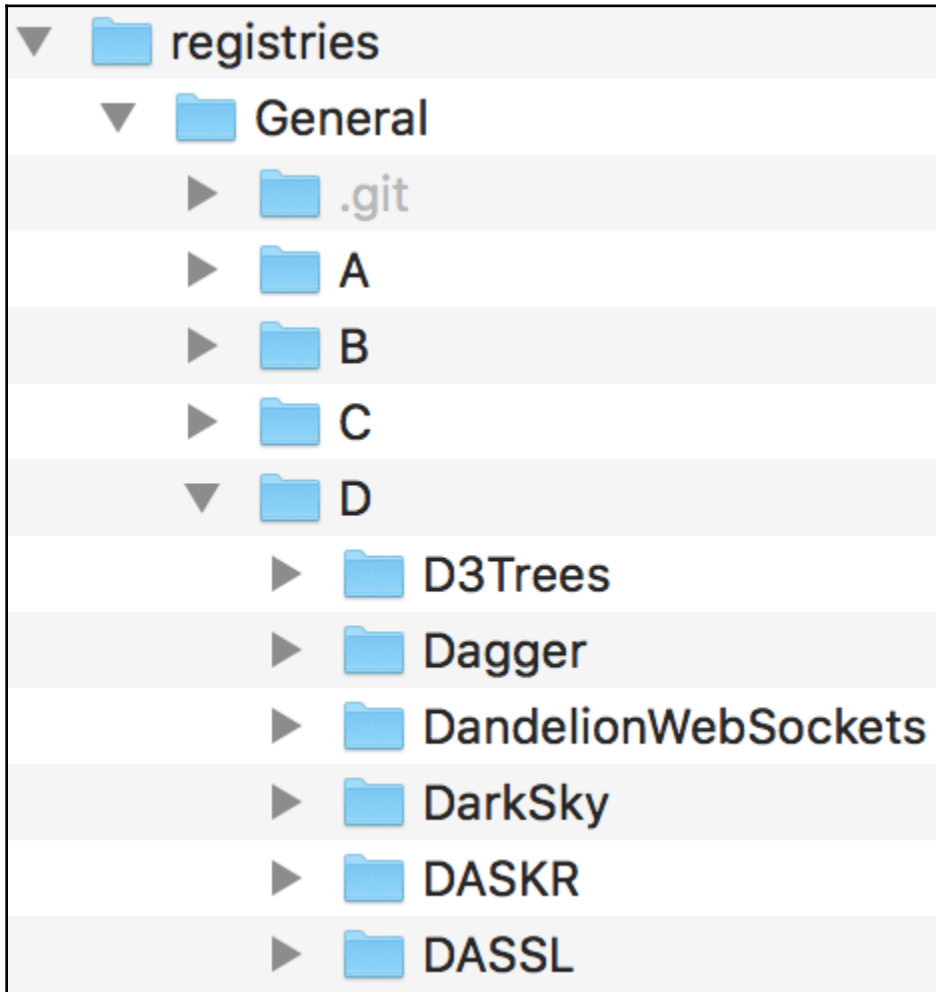


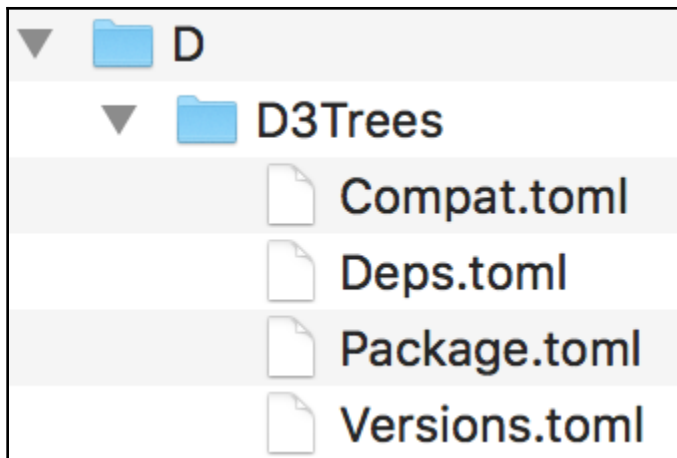
	Values
2013-02-01	27790.0

	Values
2013-02-01	27790.0
2013-03-01	27292.0
2013-04-01	26755.0
2013-05-01	26292.0
2013-06-01	25805.0
2013-07-01	25501.0



Chapter 11: Creating Julia Packages





```
Testing IssueReporter
Resolving package versions...
Test Summary: |
Interacting with the registry | No tests
Test Summary: | Pass Total
Basic features | 1 1
Testing IssueReporter tests passed
```

```

Body::Union{Float64, Int64}
3 1 — (Base.ifelse)(true, 10, 0)
   |   %2 = (Base.slt_int)(10, 1)::Bool
   |   goto #3 if not %2
2 — goto #4
3 — goto #4
4 --- %6 = φ (#2 => true, #3 => false)::Bool
   |   %7 = φ (#3 => 1)::Int64
   |   %8 = φ (#3 => 1)::Int64
   |   %9 = (Base.not_int)(%6)::Bool
   |   goto #15 if not %9
5 --- %11 = φ (#4 => 0, #14 => %29)::Union{Float64, Int64}
   |   %12 = φ (#4 => %7, #14 => %35)::Int64
   |   %13 = φ (#4 => %8, #14 => %36)::Int64
4  |   %14 = (Base.sitofp)(Float64, %12)::Float64
   |   %15 = invoke Base.Math.sin(%14::Float64)::Float64
   |   %16 = (isa)(%11, Float64)::Bool
   |   goto #7 if not %16
6 — %18 = π (%11, Float64)
   |   %19 = (Base.add_float)(%18, %15)::Float64
   |   goto #10
7 — %21 = (isa)(%11, Int64)::Bool
   |   goto #9 if not %21
8 — %23 = π (%11, Int64)
   |   %24 = (Base.sitofp)(Float64, %23)::Float64
   |   %25 = (Base.add_float)(%24, %15)::Float64
   |   goto #10
9 — (Core.throw)(ErrorException("fatal error in type inference (type bound)"))
   |   $(Expr(:unreachable))
10 --- %19 = φ (#6 => %19, #8 => %25)::Float64
   |   %30 = (%13 === 10)::Bool
   |   goto #12 if not %30
11 — goto #13
12 — %33 = (Base.add_int)(%13, 1)::Int64
   |   goto #13
13 --- %35 = φ (#12 => %33)::Int64
   |   %36 = φ (#12 => %33)::Int64
   |   %37 = φ (#11 => true, #12 => false)::Bool
   |   %38 = (Base.not_int)(%37)::Bool
   |   goto #15 if not %38
14 — goto #5
6 15 — %41 = φ (#13 => %29, #4 => 0)::Union{Float64, Int64}
   |   return %41

```

```

Body: Any
35 1 - %1 = invoke IssueReporter.generalregistrypath():Union{Nothing, String}
    | %2 = invoke IssueReporter.searchregistry(_2::String):Any
    | %3 = (Base.getindex)(%2, "path"): Any
    | %4 = (IssueReporter.joinpath)(%1, %3, "Package.toml"): String
    | %5 = invoke Base.:(#open#294)($(QuoteNode(Base.Iterators.Pairs{Union{},Union{},
OML.parse), %4::String, "r":Vararg{String,N} where N):Dict{String,Any}
    | %6 = invoke Base.ht_keyindex(%5::Dict{String,Any}, "repo"): Int64
    | %7 = (Base.slt_int)(%6, 0): Bool
    | goto #3 if not %7
2 - %9 = %new(Base.KeyError, "repo"): KeyError
    | (Base.throw)(%9)
    | $(Expr(:unreachable))
3 - %12 = (Base.getfield)(%5, :vals): Array{Any,1}
    | %13 = (Base.arrayref)(false, %12, %6): Any
    | goto #5
4 - $(Expr(:unreachable))
5 ... return %13

```

```

Body::String
36 1 — %1 = IssueReporter.String::Core.Compiler.Const(String, false)
    |   %2 = invoke IssueReporter.searchregistry(_2::String)::Dict{String,Any}
37  |   %3 = (Base.getfield)(%2, :count)::Int64
    |   %4 = (%3 === 0)::Bool
    |       goto #3 if not %4
    2 —   return ""
38 3 — %7 = invoke IssueReporter.generalregistrypath()::String
    |   %8 = invoke Base.ht_keyindex(%2::Dict{String,Any}, "path"::String)::Int64
    |   %9 = (Base.slt_int)(%8, 0)::Bool
    |       goto #5 if not %9
    4 — %11 = %new(Base.KeyError, "path"::KeyError
    |       (Base.throw)(%11)
    |       $(Expr(:unreachable))
    5 — %14 = (Base.getfield)(%2, :vals)::Array{Any,1}
    |   %15 = (Base.arrayref)(false, %14, %8)::Any
    |       goto #7
    6 —   $(Expr(:unreachable))
    7 — %18 = (IssueReporter.joinpath)(%7, %15, "Package.toml")::String
    |   %19 = invoke Base.:(#open#294)($(QuoteNode(Base.Iterators.Pairs{Union{},Union{}},
TOML.parse), %18::String, "r"::Vararg{String,N} where N)::Dict{String,Any}
    |   %20 = %new(getfield(Base, Symbol("##223#224")){String}, "")::getfield(Base,
    |   %21 = invoke Base.get!(%20::getfield(Base, Symbol("##223#224")){String}, %19
    |   %22 = (isa)(%21, String)::Bool
    |       goto #9 if not %22
    8 — %24 = π (%21, String)
    |       goto #10
    9 — %26 = (Base.convert)(%1, %21)::String
    |       goto #10
10 ... %28 = φ (#8 => %24, #9 => %26)::String
    |       return %28
11 —   goto #3

```


New personal access token

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Token description

What's this token for?

Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes](#).


- | | |
|---|--|
| <input checked="" type="checkbox"/> repo | Full control of private repositories |
| <input checked="" type="checkbox"/> repo:status | Access commit status |
| <input checked="" type="checkbox"/> repo_deployment | Access deployment status |
| <input checked="" type="checkbox"/> public_repo | Access public repositories |
| <input checked="" type="checkbox"/> repo:invite | Access repository invitations |
| <input type="checkbox"/> admin:org | Full control of orgs and teams |
| <input type="checkbox"/> write:org | Read and write org and team membership |
| <input type="checkbox"/> read:org | Read org and team membership |

Testing IssueReporter

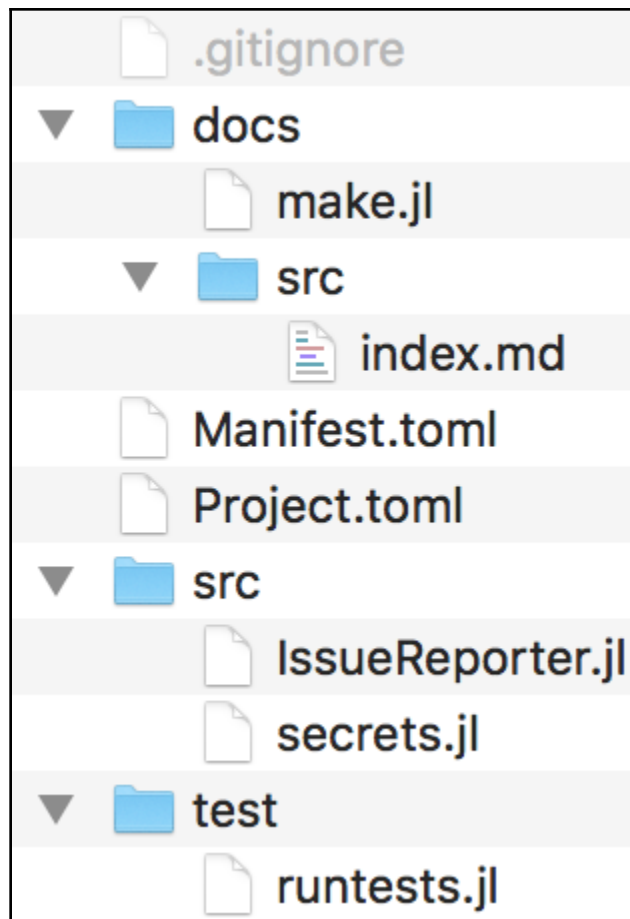
Resolving package versions...

```
Test Summary: | Pass Total
Interacting with the registry | 1 1
Test Summary: | Pass Total
Basic features | 1 1
Test Summary: | Pass Total
GitHub integration | 5 5
```

 **1 Open** ✓ 4 Closed

 **I found a bug**

#5 opened 39 seconds ago by essenciary



IssueReporter Documentation

Search docs

IssueReporter.jl Documentation

- IssueReporter.jl Documentation
 - Functions
 - Index

Functions

IssueReporter.packageuri – Method.

```
packageuri(pkgname)
```

Takes the name of a registered Julia package and returns the associated repo git URL.

Examples

```
julia> IssueReporter.packageuri("IssueReporter")
"git://github.com/essenciary/IssueReporter.jl.git"
```

IssueReporter.tokenisdefined – Method.

```
tokenisdefined()
```

Checks if the required GitHub authentication token is defined.

essenciary / IssueReporter.jl

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Julia REPL utility for easily registering GitHub issues for Julia METADATA packages Edit

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6 commits 1 branch **0 releases** 1 contributor

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Create a new release

Releases Tags

v0.0.1 @  Target: master ▾

Excellent! This tag will be created from the target when you publish this release.

Initial release|