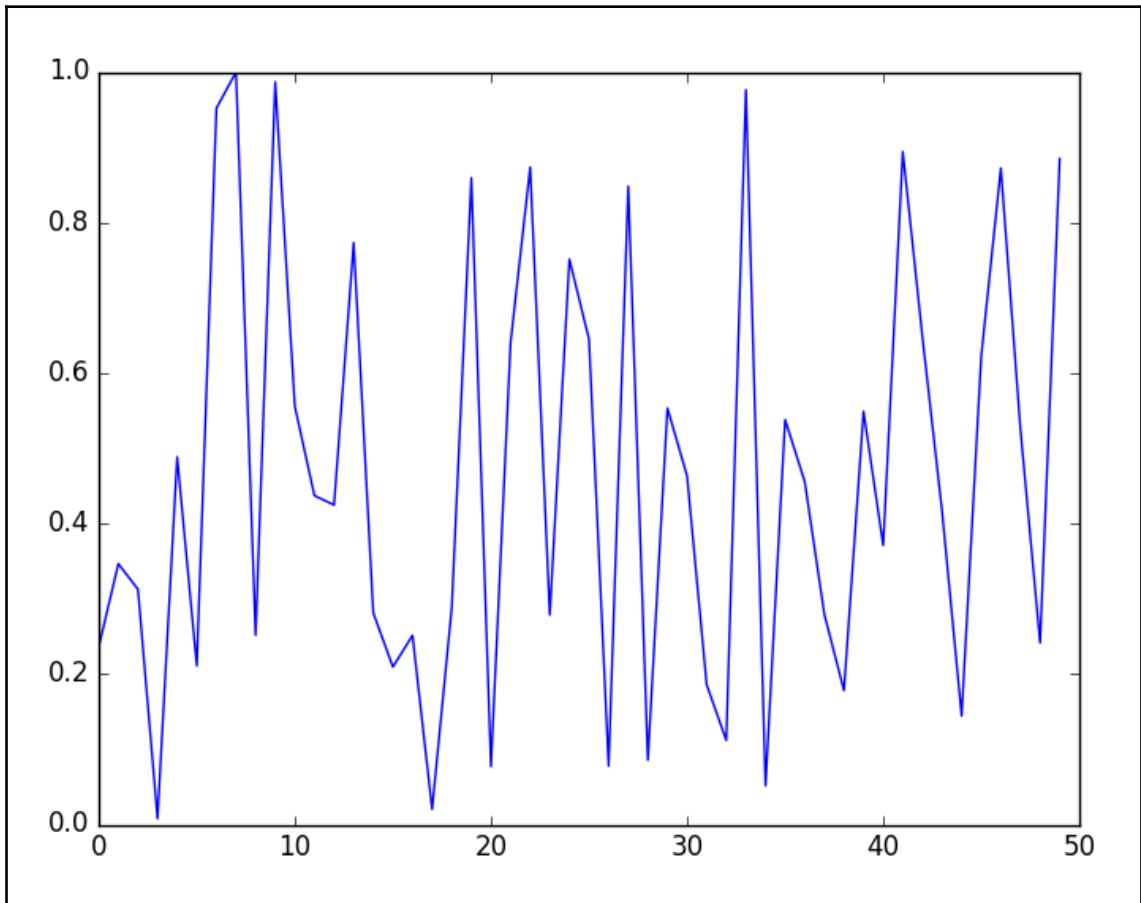
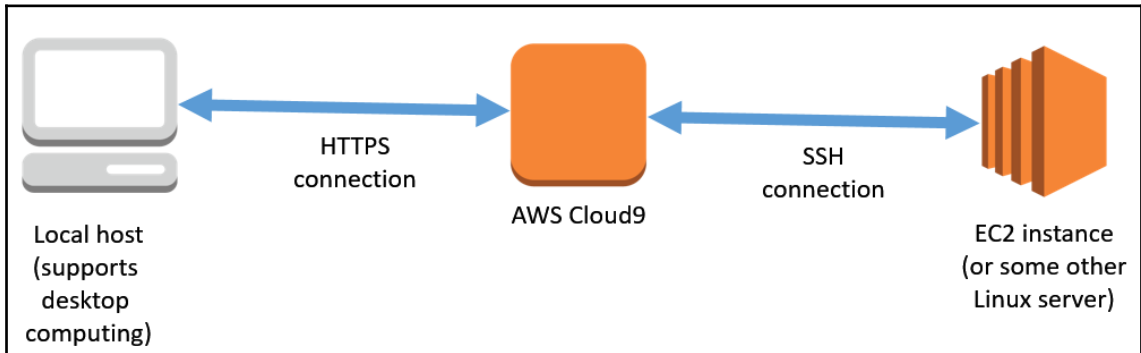
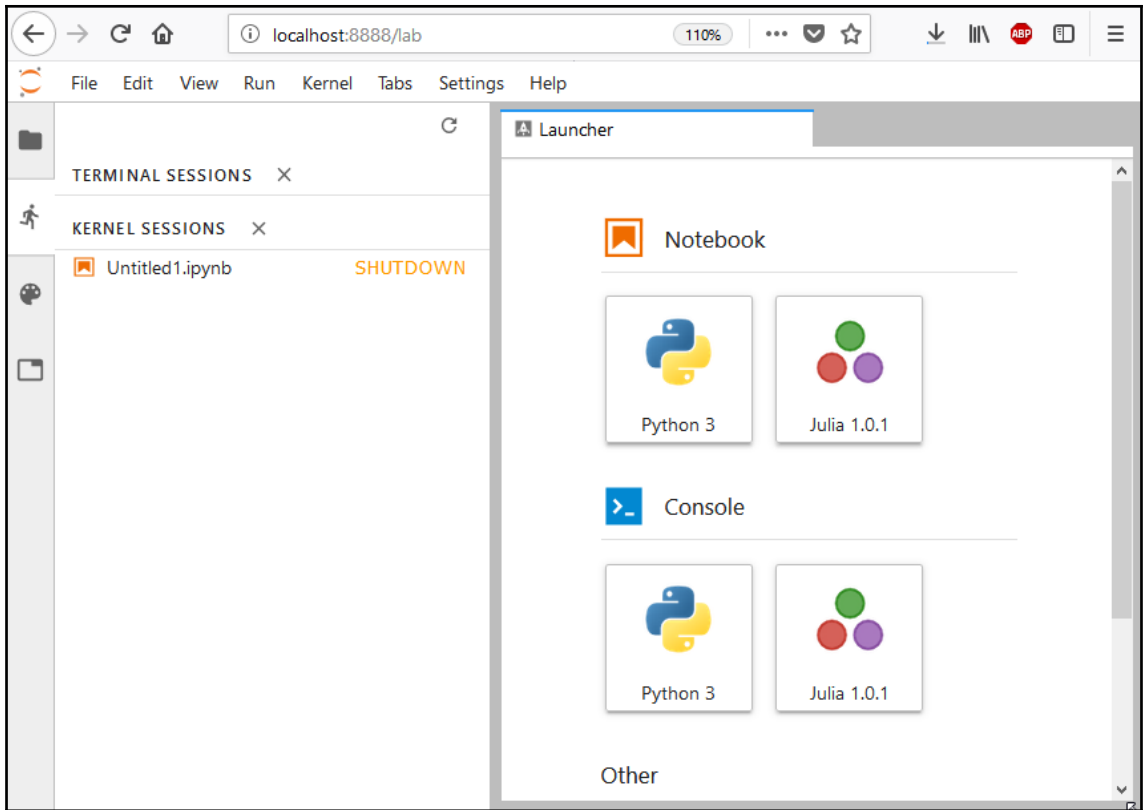
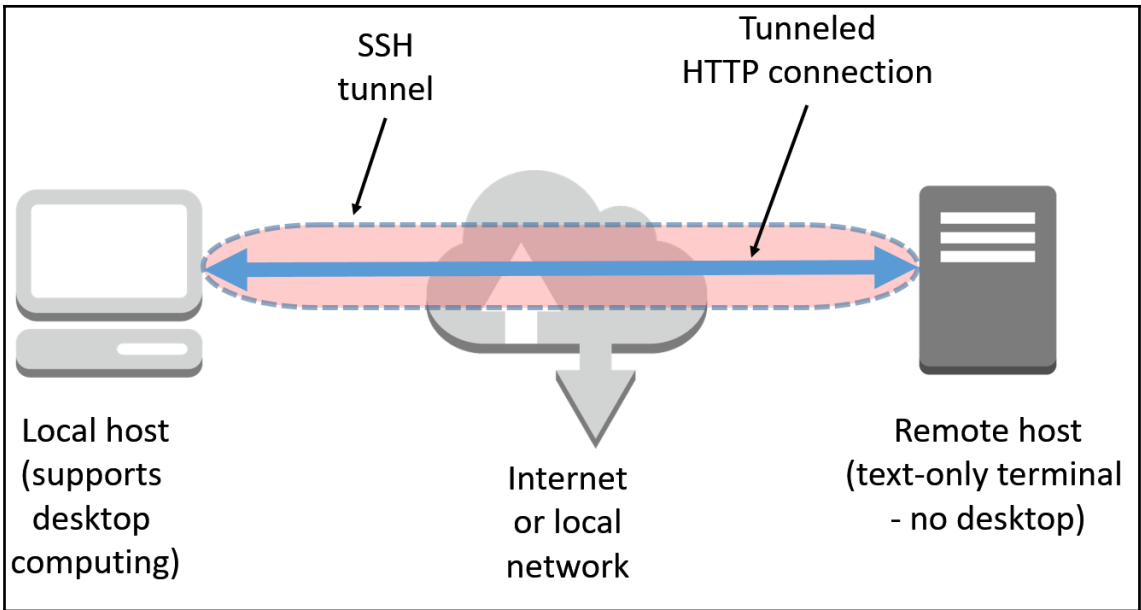


# Chapter 1: Installing and Setting Up Julia







---

## Chapter 2: Data Structures and Algorithms

```
Bulgarian Здравейте  
Chinese 你好  
English Hello  
Greek Χαίρετε  
Hindi नमस्ते  
Japanese こんにちは  
Khmer គួរ  
Korean 여보세요  
Polish cześć  
Russian Здравствуйте
```

```
julia> readlines("hello.txt")  
10-element Array{String,1}:  
"Bulgarian Здравейте"  
"Chinese 你好 "  
"English Hello"  
"Greek Χαίρετε"  
"Hindi नमस्ते "  
"Japanese こんにちは "  
"Khmer គួរ "  
"Korean 여보세요 "  
"Polish cześć"  
"Russian Здравствуйте"
```

---

```
julia> hello_dict = Dict{String, String}(map(x->Pair(x...), split("hello", ' ')))
Dict{String, String} with 10 entries:
  "Chinese" => "你好"
  "English" => "Hello"
  "Greek"    => "Χαίρετε"
  "Khmer"    => "ស្កែ"
  "Korean"   => "여보세요"
  "Hindi"    => "नमस्ते"
  "Japanese" => "こんにちは"
  "Bulgarian" => "Здравейте"
  "Polish"   => "cześć"
  "Russian"  => "Здравствуйте"
```

---

## Chapter 3: Data Engineering in Julia



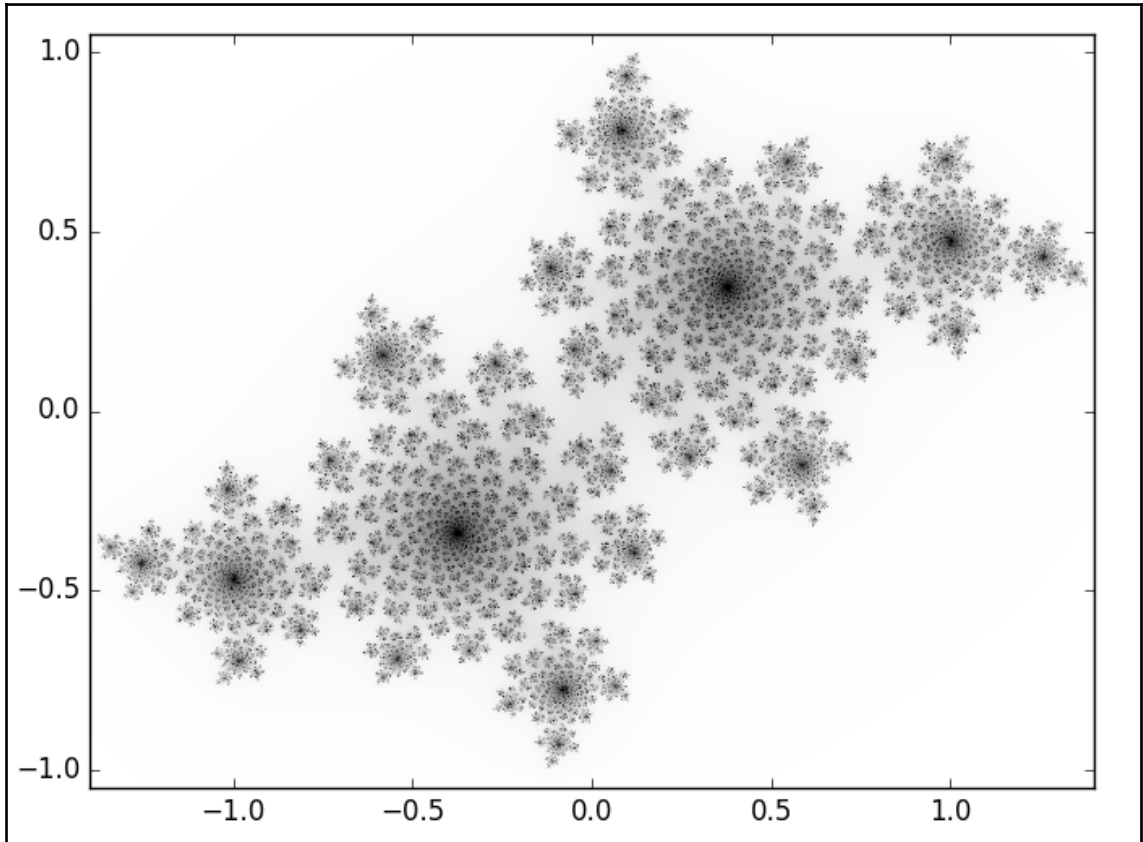
A1		✕ ✓ f <sub>x</sub>		Data generated on:		
	A	B	C	D	E	F
1	Data generated on:					
2	2018-10-26 15:43:15					
3	0.823647508	0.177329	0.042302	0.973216	0.260036	
4	0.910356538	0.27888	0.068269	0.585812	0.910047	
5	0.164565798	0.203477	0.361828	0.539289	0.167036	
6						

A1		✕ ✓ f <sub>x</sub>		a	
	A	B	C	D	
1	a	b			
2	1		4		
3	2		5		
4	3		6		
5					
6					
7					

SheetName1 SheetName2 (+)

---

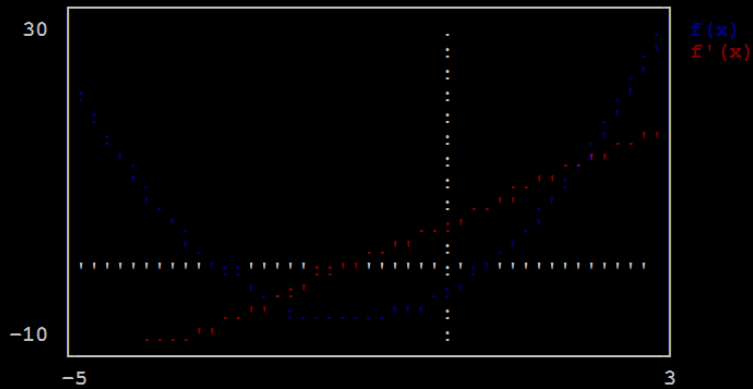
## Chapter 4: Numerical Computing with Julia



---

## Chapter 5: Variables, Types, and Functions/

```
julia> plot = lineplot(x, f.(x), width=45, height=15, canvas=DotCanvas, name="f(x)");  
julia> plot = lineplot!(plot,x,deriv(f).(x),name="f'(x)")
```



```
julia>
```



---

# Chapter 6: Metaprogramming and Advanced Typing

No images.

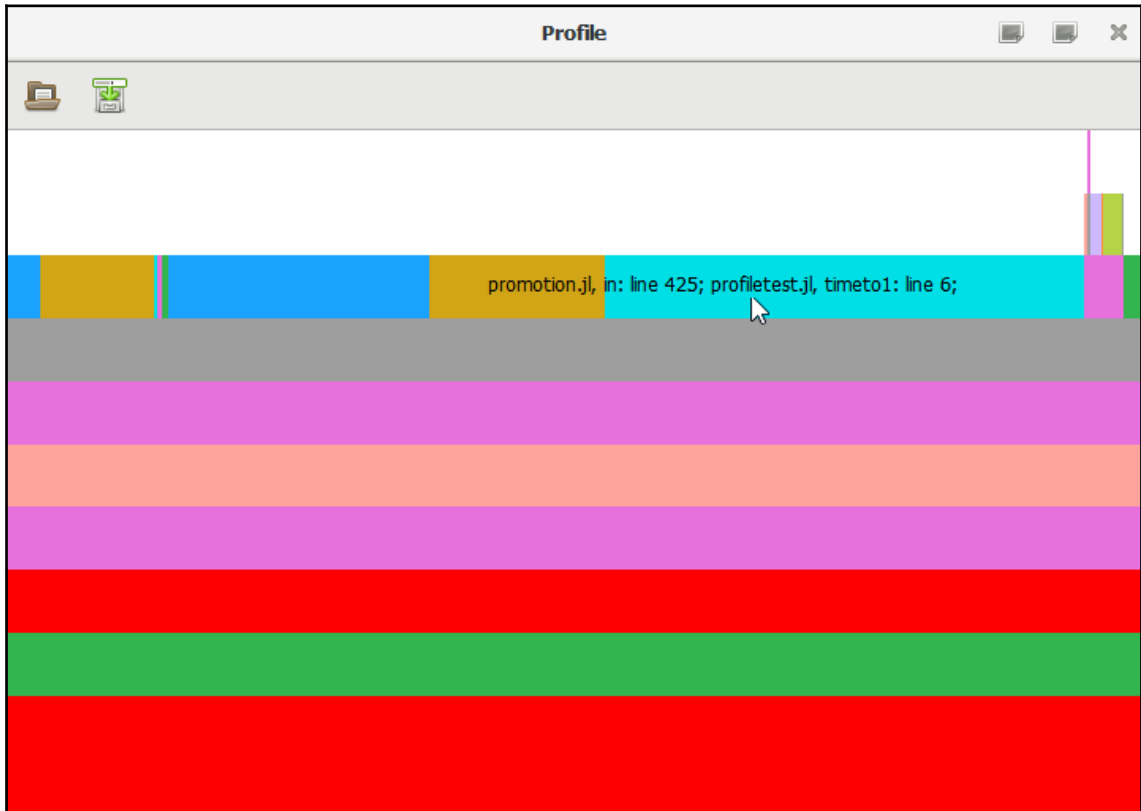
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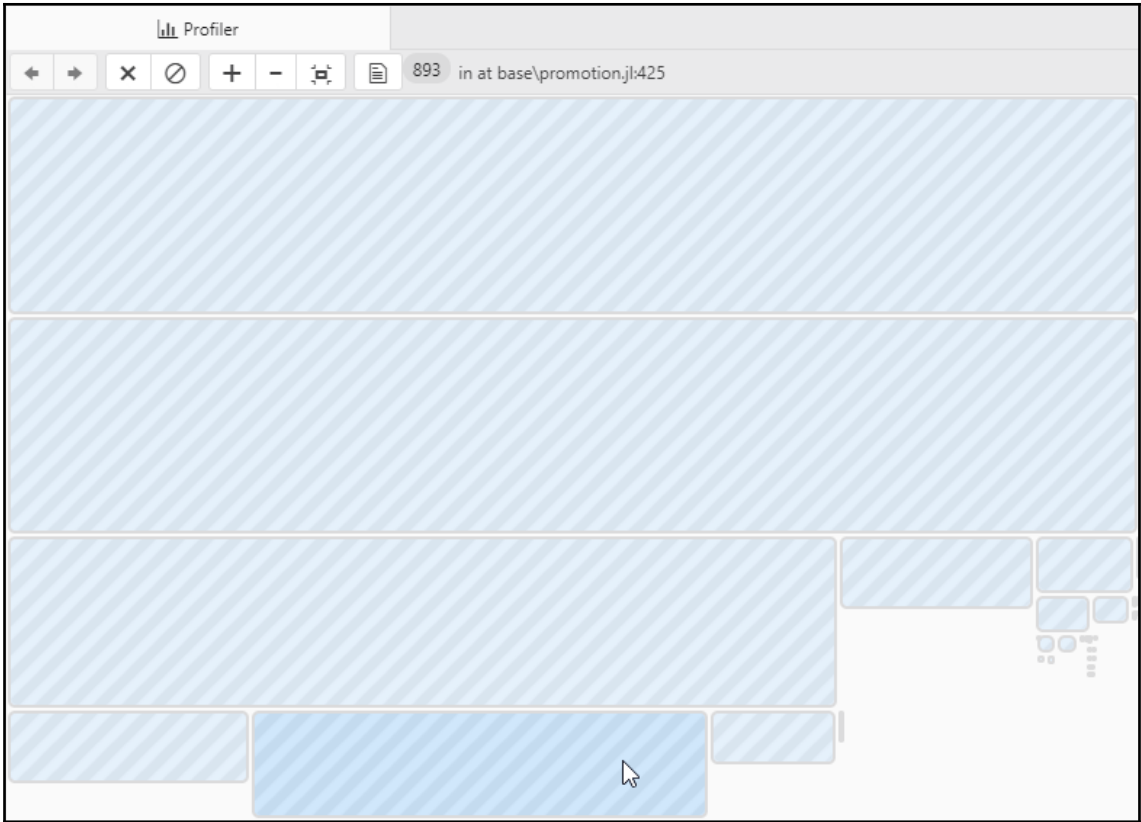
# Chapter 7: Handling Analytical Data

No images.

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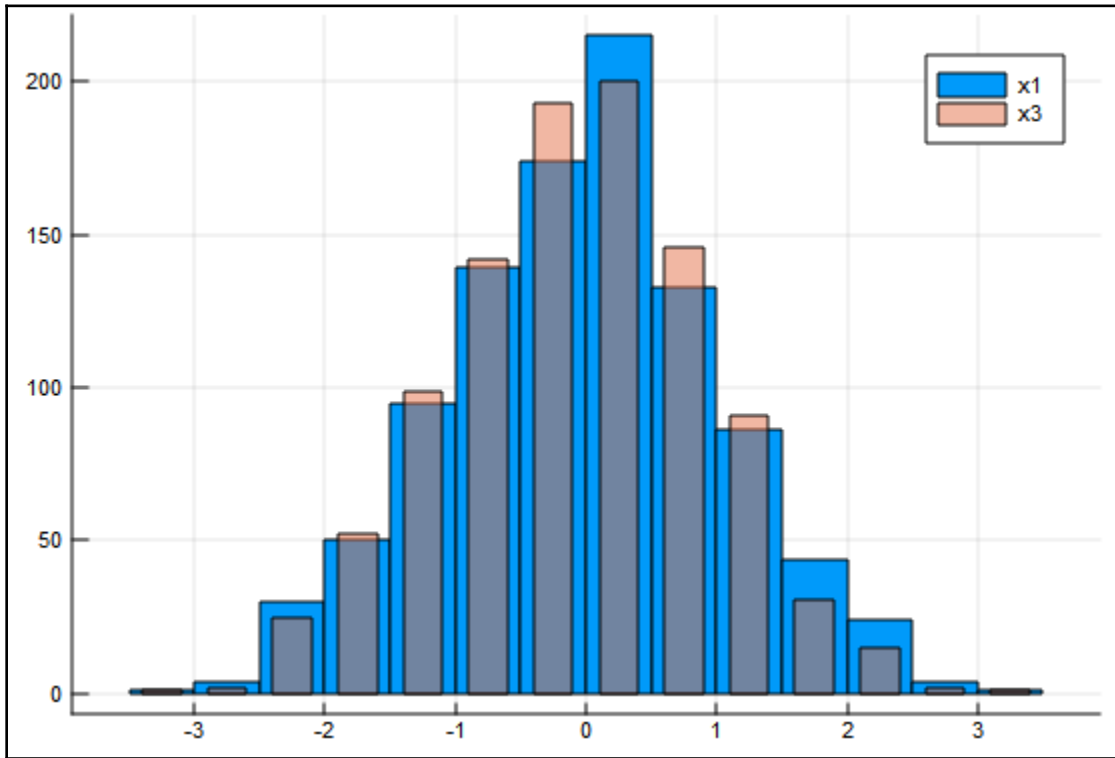
## Chapter 8: Julia Workflow

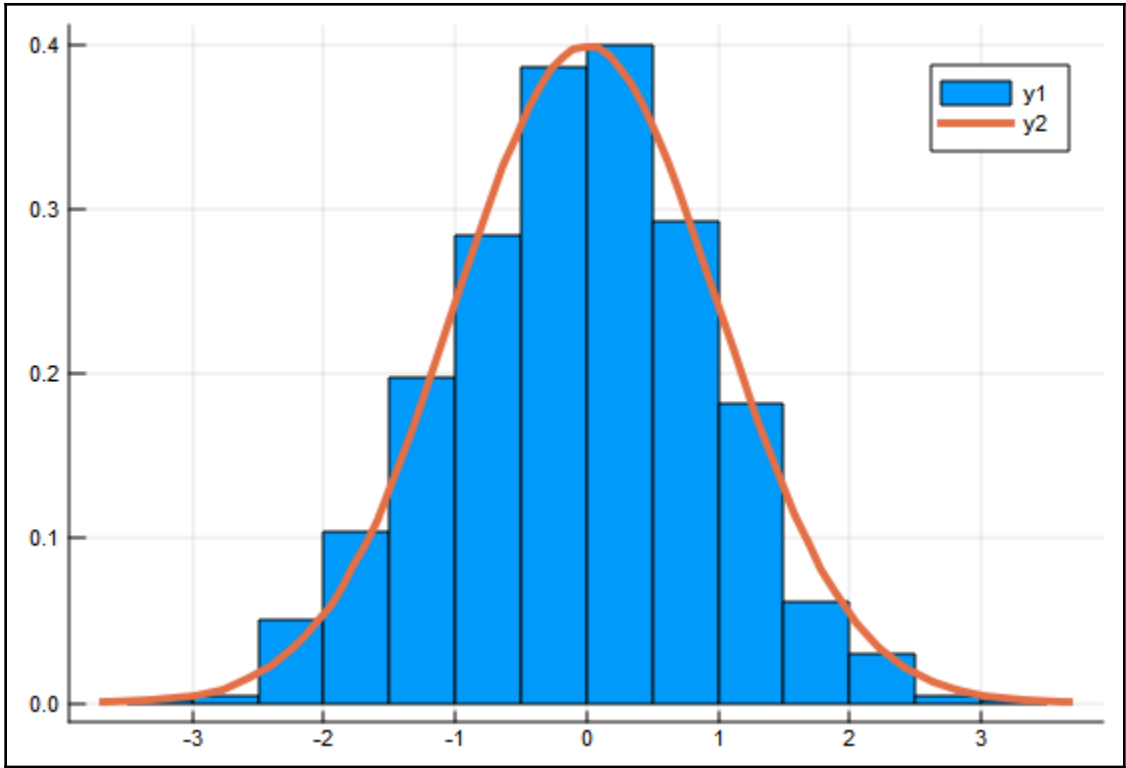


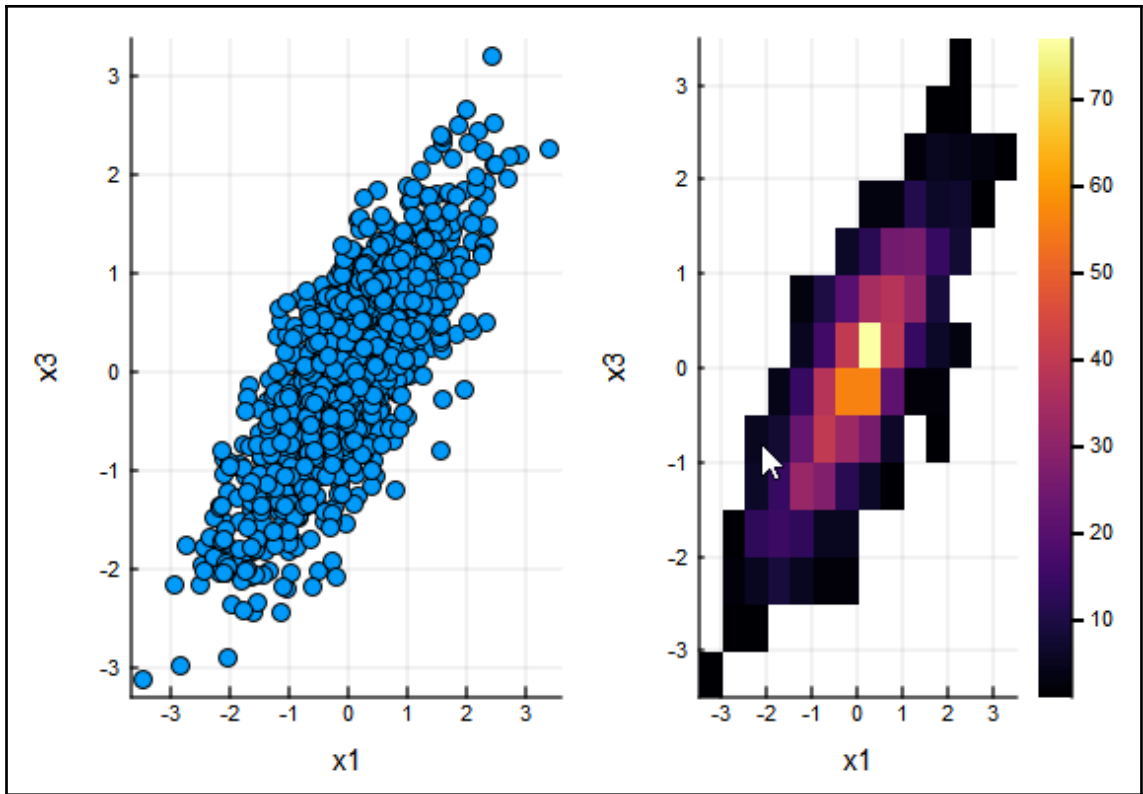


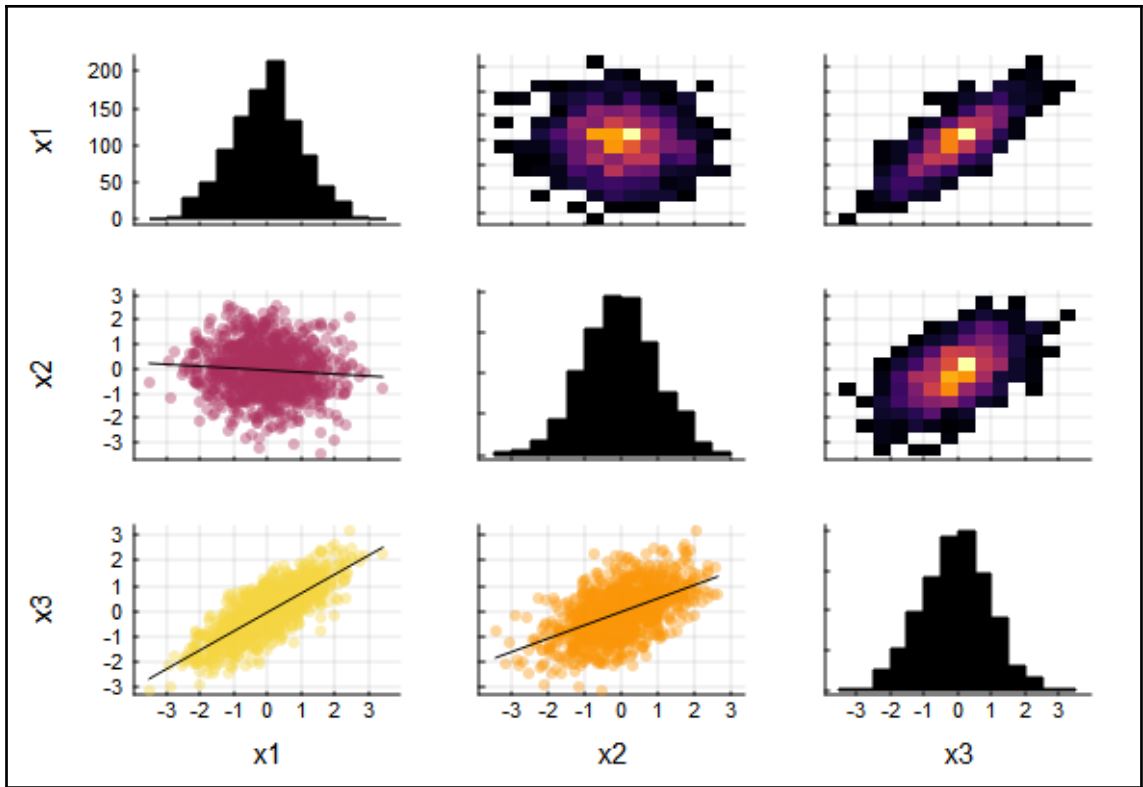
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## Chapter 9: Data Science

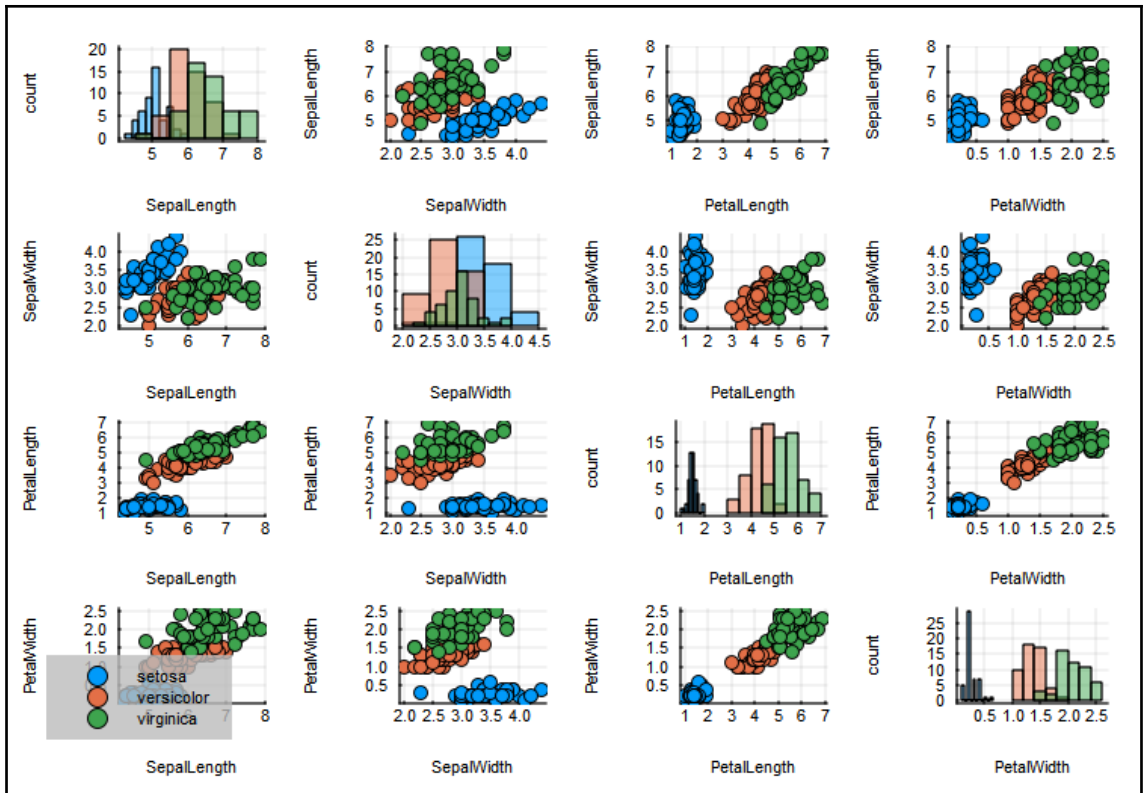


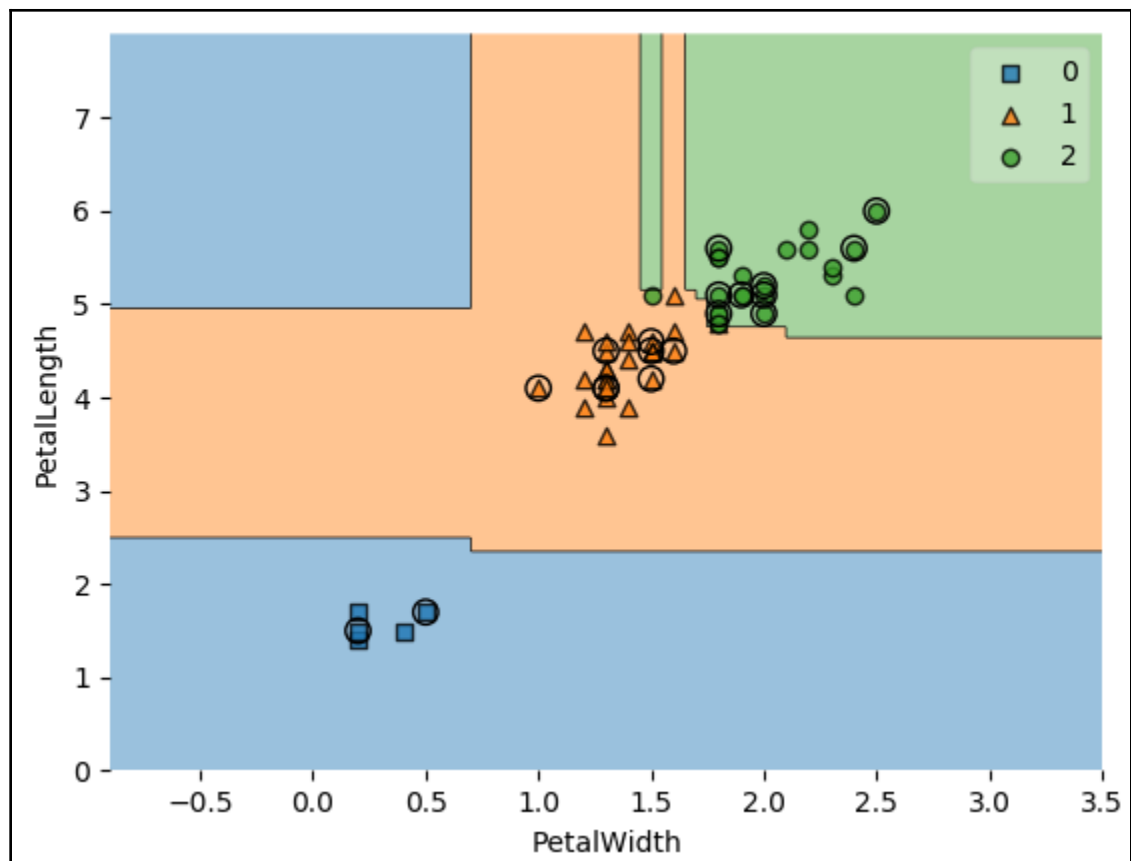








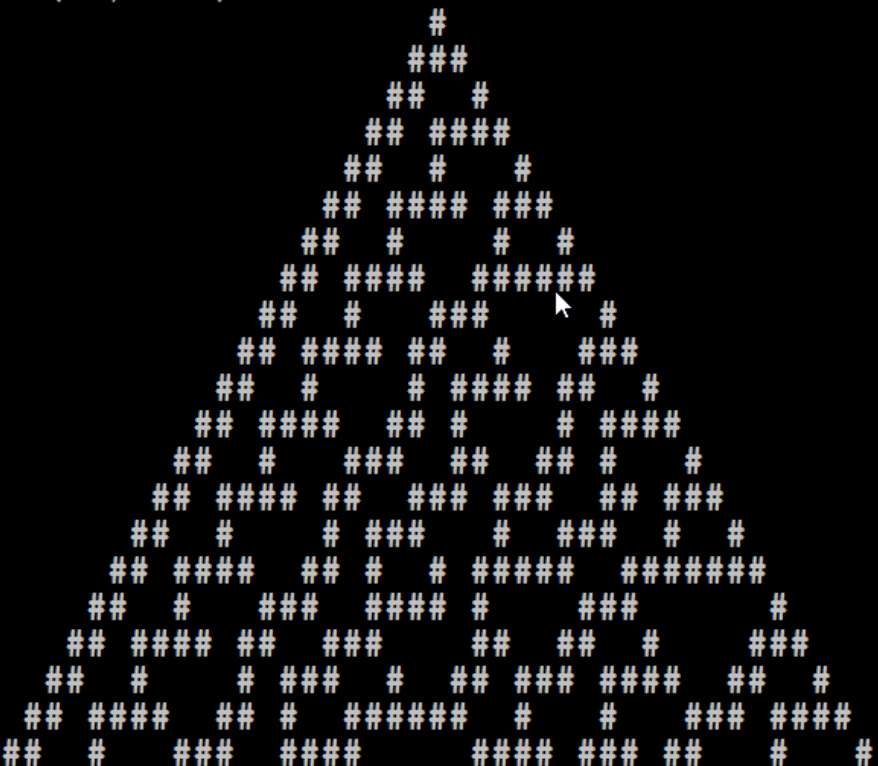




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## Chapter 10: Distributed Computing

```
julia> runca(20,true)
```



```
julia>
```

