

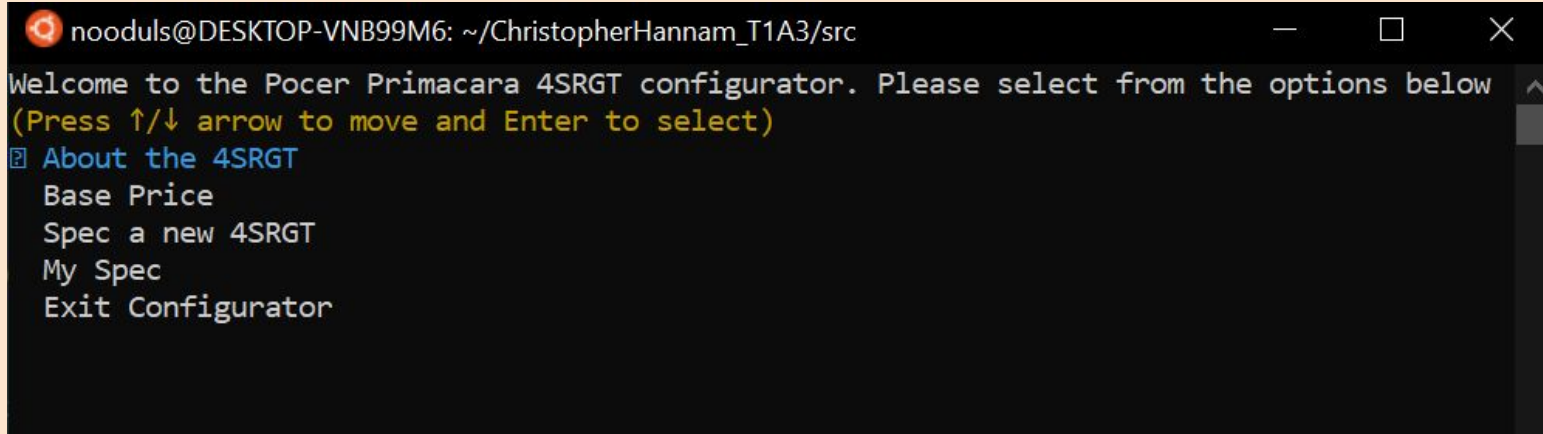
Pocer Primacara 4SRGT

Car configurator



A terminal app by Chris Hannam

Welcome to the Pocer buying experience

A screenshot of a terminal window with a dark background. The window title bar shows a red circular icon with a white 'q' on the left, and standard window controls (minimize, maximize, close) on the right. The terminal text reads: 'nooduls@DESKTOP-VNB99M6: ~/ChristopherHannam_T1A3/src' followed by 'Welcome to the Pocer Primacara 4SRGT configurator. Please select from the options below' and '(Press ↑/↓ arrow to move and Enter to select)'. Below this, there is a menu with a blue cursor icon next to 'About the 4SRGT', followed by 'Base Price', 'Spec a new 4SRGT', 'My Spec', and 'Exit Configurator'.

```
nooduls@DESKTOP-VNB99M6: ~/ChristopherHannam_T1A3/src
Welcome to the Pocer Primacara 4SRGT configurator. Please select from the options below
(Press ↑/↓ arrow to move and Enter to select)
? About the 4SRGT
  Base Price
  Spec a new 4SRGT
  My Spec
  Exit Configurator
```

A new way to buy your dream car online, if this was the year 1997..

Under the hood: index page is uncluttered and simple

```
src > index.rb
126 #Prompt script
127 $prompt = TTY::Prompt.new(active_color: :cyan, help_color: :yellow)
128
129 def about
130   puts "The Pocer Primacara 4SRGT is purpose built track tool. A highly agile mid-engine track and road car wi
131 end
132 #Show Price
133 def show_price
134   puts "The Pocer Primacara 4SRGT has a starting price of $310,000 plus extras."
135 end
136 #require_relative("./spec.rb")
137 def select_option
138   start = $prompt.select("Welcome to the Pocer Primacara 4SRGT configurator. Please select from the options be
139   start
140 end
141
142 option = ""
143 while option != "Exit"
144   option = select_option
145   case option
146   when "About the 4SRGT"
147     about
148   when "Base Price"
149     show_price
150   when "Spec a new 4SRGT"
151     require_relative("./spec.rb")
152   when "My Spec"
153     require_relative("./my_spec.rb")
154   when "Exit Configurator"
155     exit
156   end
157 end
158
```

- Introduction
- TTY Prompt
- Menu
- Menu Case Statement

About the 4SRGT:

```
nooduls@DESKTOP-VNB99M6: ~/ChristopherHannam_T1A3/src
Welcome to the Pocer Primacara 4SRGT configurator. Please select from the options below
About the 4SRGT
The Pocer Primacara 4SRGT is purpose built track tool. A highly agile mid-engine track a
nd road car with a 4.0-litre flat six-cylinder naturally aspirated engine with a 9000 RP
M limit and 368kW of power.
Welcome to the Pocer Primacara 4SRGT configurator. Please select from the options below
Base Price
The Pocer Primacara 4SRGT has a starting price of $310,000 plus extras.
Welcome to the Pocer Primacara 4SRGT configurator. Please select from the options below
(Press ↑/↓ arrow to move and Enter to select)
? About the 4SRGT
  Base Price
  Spec a new 4SRGT
  My Spec
  Exit Configurator
```

I don't know why there is a green line down there..

Specing a new car class and method

```
src > spec.rb
1  # Spec is the Superclass of all options and subclass of Car
2  require "tty-prompt"
3
4  class Spec# < Car
5    @@full_spec = []
6    def initialize(color, wheels, wheel_color, interior, audio)
7      @color = color
8      @wheels = wheels
9      @wheel_color = wheel_color
10     @interior = interior
11     #@exterior =
12     #@mechanical = []
13     @audio = audio
14     @@full_spec = []
15   end
16 end
17
18   def self.full_spec
19     @@full_spec
20   end
21
22 # Methods to write:
23 # start a new spec, delete option method, reset all options method - in
24 $prompt = TTY::Prompt.new(active_color: :cyan, help_color: :yellow)
25
```

```
def new_spec
  spec = $prompt.select("Select a category to start optioning", [
  spec
end
option = ""
while option != "Exit"
  option = new_spec
  case option
  when "Color"
    require_relative("../colors.rb")
  when "Wheels"
    require_relative("../wheels.rb")
  when "Wheel Color"
    require_relative("../wheelcolors.rb")
  when "Interior"
    require_relative("../interior.rb")
  # when "Exterior"
  #   require_relative("../exterior.rb")
  # when "Mechanical"
  #   require_relative("../mechanical.rb")
  when "Audio"
    require_relative("../audio.rb")
  when "Exit"
    next
  end
end
end
```

No cost color options, Premium cost and Exclusive custom choice

```
nooduls@DESKTOP-VNB99M6: ~/ChristopherHannam_T1A3/src
Welcome to the Pocer Primacara 4SRGT configurator. Please select from the options below
Spec a new 4SRGT
Select a category to start optioning Color
No Cost Colors: GT Silver
GT Silver paint for $6000
No Cost Colors:
White
Black
Red
Yellow
Premium Colors:
White Metallic
[?] GT Silver
Metallic Navy
Chalk Grey
Bluesky
Custom Color
Exit
```

```
nooduls@DESKTOP-VNB99M6: ~/ChristopherHannam_T1A3/src
Welcome to the Pocer Primacara 4SRGT configurator. Please select from the options below
Spec a new 4SRGT
Select a category to start optioning Color
No Cost Colors: GT Silver
GT Silver paint for $6000
No Cost Colors: Exit
Select a category to start optioning Wheels
No Cost Wheels: 20 inch Forged Magnesium
20 inch Forged Magnesium wheels for $28000
No Cost Wheels:
  20 inch Forged Aluminium
  Premium Wheels:
  20 inch Forged Magnesium
  Special Wheels:
  20 inch Carbon Fibre
  Exit
```

Option and pricing displayed in app

```
wheels.rb
require "tty-prompt"
$prompt = TTY::Prompt.new(active_color: :cyan, help_color: :yellow)

class Wheels < Spec
  attr_reader :wheel, :price
  def initialize(wheel, price)
    @wheel = wheel
    @price = price
  end

  def to_s
    return $rim = "#{@wheel} wheels for ${@price}"
  end
end

def wheels
  start = $prompt.select("No Cost Wheels:".colorize(:red), ["20 inch Forged Aluminium"], "Premium Wheels:")
  start
end

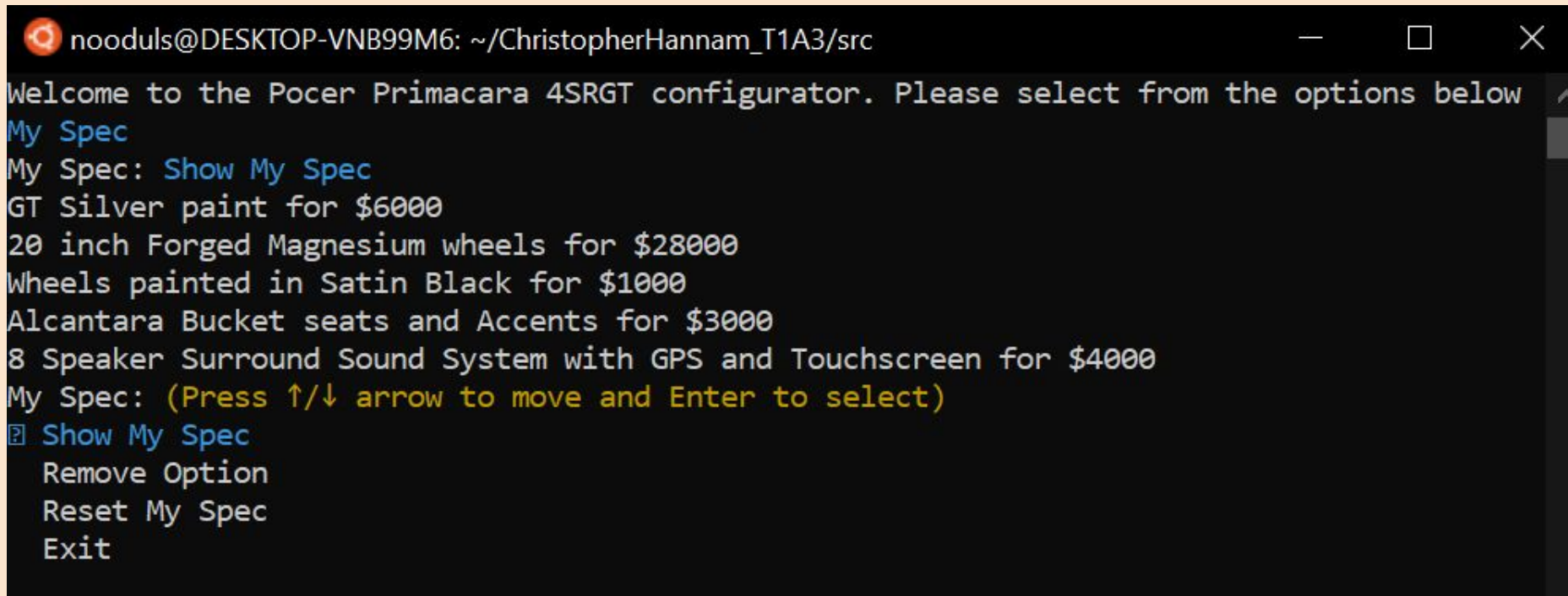
option = ""
while option != "Exit"
  option = wheels
  case option
  when "20 inch Forged Aluminium"
    puts rim = Wheels.new("20 inch Forged Aluminium", 0)
  when "Premium Wheels:"
    puts "Not a valid selection"
  when "20 inch Forged Magnesium"
    puts rim = Wheels.new("20 inch Forged Magnesium", 28000)
  when "Special Wheels:"
    puts "Not a valid selection"
  when "20 inch Carbon Fibre"
    puts rim = Wheels.new("20 inch Carbon Fibre", 38000)
  when "Exit"
    next
  end
end
```

Wheels Class, Methods and Case Statement

Putting an option on another option


```
nooduls@DESKTOP-VNB99M6: ~/ChristopherHannam_T1A3/src
Welcome to the Pocer Primacara 4SRGT configurator. Please select from the options below
Spec a new 4SRGT
Select a category to start optioning Color
No Cost Colors: GT Silver
GT Silver paint for $6000
No Cost Colors: Exit
Select a category to start optioning Wheels
No Cost Wheels: 20 inch Forged Magnesium
20 inch Forged Magnesium wheels for $28000
No Cost Wheels: Exit
Select a category to start optioning Wheel Color
No Cost Colors: Satin Black
Wheels painted in Satin Black for $1000
No Cost Colors:
  Silver
  White
  Premium Colors:
  Black
☒ Satin Black
  Satin Copper
  Satin Deep Blue
  Special Color:
  Satin Black with Yellow rim borders (not available on carbon fibre wheels)
  Exit
```


Shows you your full spec, or just what you've spec'ed so far. Save your spec and come back to it later.

A terminal window with a dark background and light-colored text. The window title bar shows a red circular icon with a white 'Q' on the left, and standard window controls (minimize, maximize, close) on the right. The text inside the terminal is as follows:

```
nooduls@DESKTOP-VNB99M6: ~/ChristopherHannam_T1A3/src  
Welcome to the Pocer Primacara 4SRGT configurator. Please select from the options below  
My Spec  
My Spec: Show My Spec  
GT Silver paint for $6000  
20 inch Forged Magnesium wheels for $28000  
Wheels painted in Satin Black for $1000  
Alcantara Bucket seats and Accents for $3000  
8 Speaker Surround Sound System with GPS and Touchscreen for $4000  
My Spec: (Press ↑/↓ arrow to move and Enter to select)  
[?] Show My Spec  
    Remove Option  
    Reset My Spec  
    Exit
```

My Spec: using global variables as haven't managed to get class and instance variables to inherit or be readable with getters and setters..

```
src >  my_spec.rb
1  require "tty-prompt"
2  #Prompt script
3  $prompt = TTY::Prompt.new(active_color: :cyan, help_color: :yellow)
4
5  # Colors -
6  # No cost - White, Black, Red, Yellow
7  # Extra cost $6000 - White Metallic, GT Silver, Metallic Navy, Chalk Grey, Miami Blue
8  # High cost $18000 - Custom Color
9
10 class MySpec #< Spec
11   attr_reader :color, :price
12   def initialize(color, price)
13     @color = color
14     @price = price
15   end
16 end
17 def to_s
18   return user_spec = [$paint, $rim, $rim_col, $seats, $stereo]
19 end
20
```

Changed your mind? Delete an option and add a new one!

```
nooduls@DESKTOP-VNB99M6: ~/ChristopherHannam_T1A3/src
Welcome to the Pocer Primacara 4SRGT configurator. Please select from the options below
My Spec
My Spec: Remove Option
GT Silver paint for $6000
20 inch Forged Magnesium wheels for $28000
Wheels painted in Satin Black for $1000
Alcantara Bucket seats and Accents for $3000
8 Speaker Surround Sound System with GPS and Touchscreen for $4000
Choose an option to delete: 8 Speaker Surround Sound System with GPS and Touchscreen for
$4000
Are you sure you want to remove selected option (Y/n)
```

Features to add:

- Total Price, base price plus full options list
- Confirm order, download to users PC and send it to dealer
- Database for saving and returning later
- Actually delete the option when you select delete

Bugs:

- App is entirely single serve, no option or menu can be accessed more than once
- Getter and setters and inheritance not working, relying on global variables

Favourite part:

- When things work, understanding why things don't work
- Separating all the parts and keeping it as DRY as possible