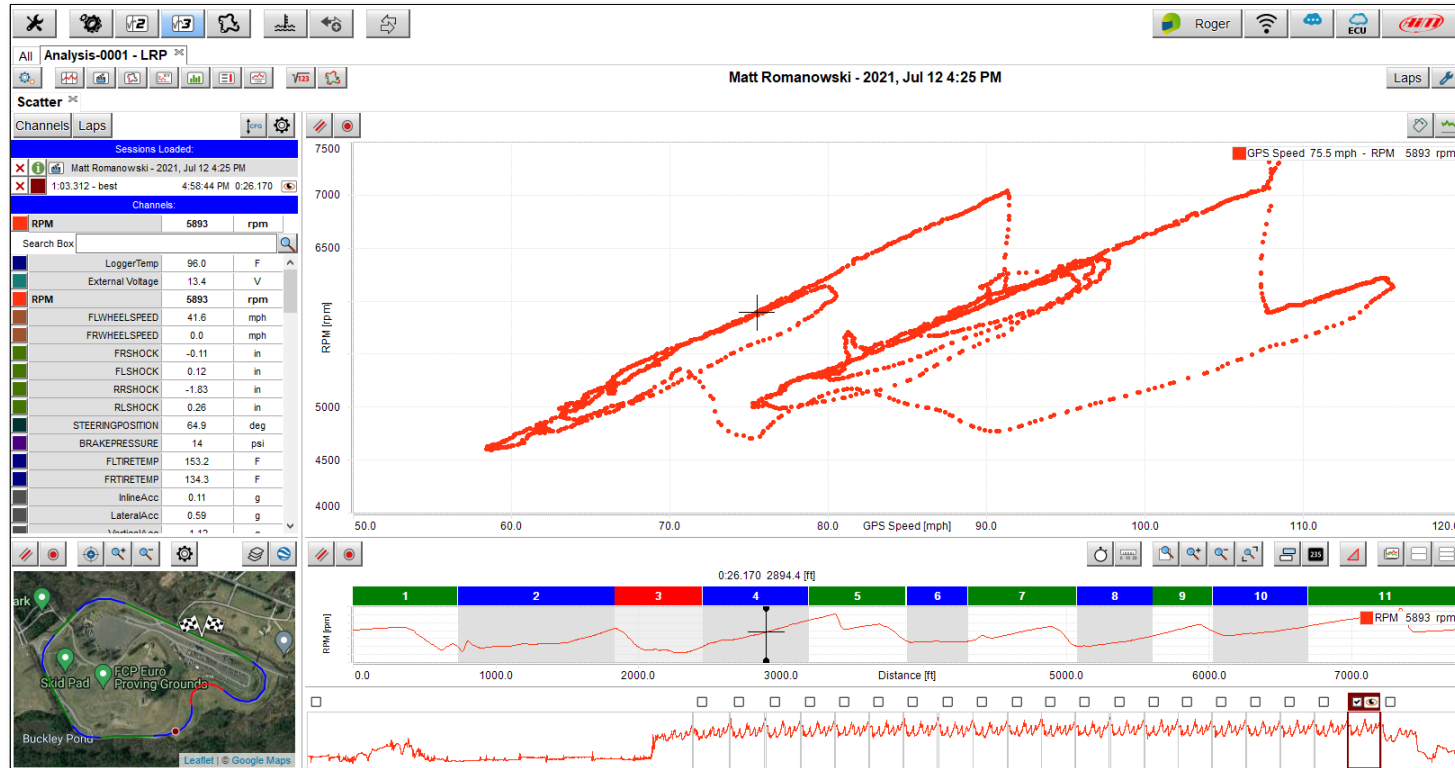


Scatter Plot Function

Settings and Tips for the Best Use of This RS3A Function



Host:

Roger Caddell

AiM Sports - National Training Manager



Co-Host:

Matt Romanowski

TrailBrake.com - Owner



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Tuesday April 12th, 2022

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Co-Host:

Matt Romanowski

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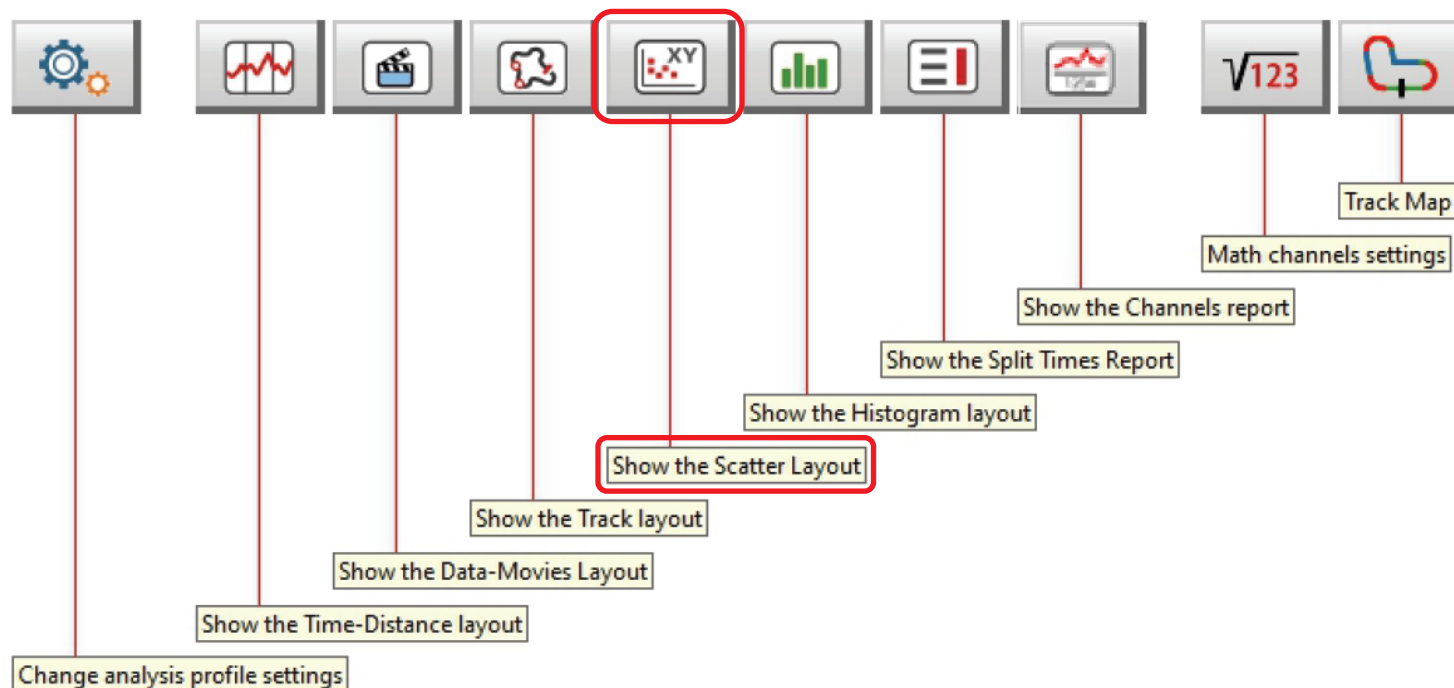
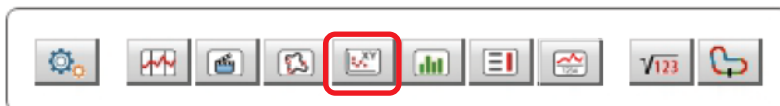


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Scatter Plot Function



Race Studio 3 Analysis Function Toolbar



Race Studio 3 Scatter Plot

Race Studio 3 Analysis Function Toolbar

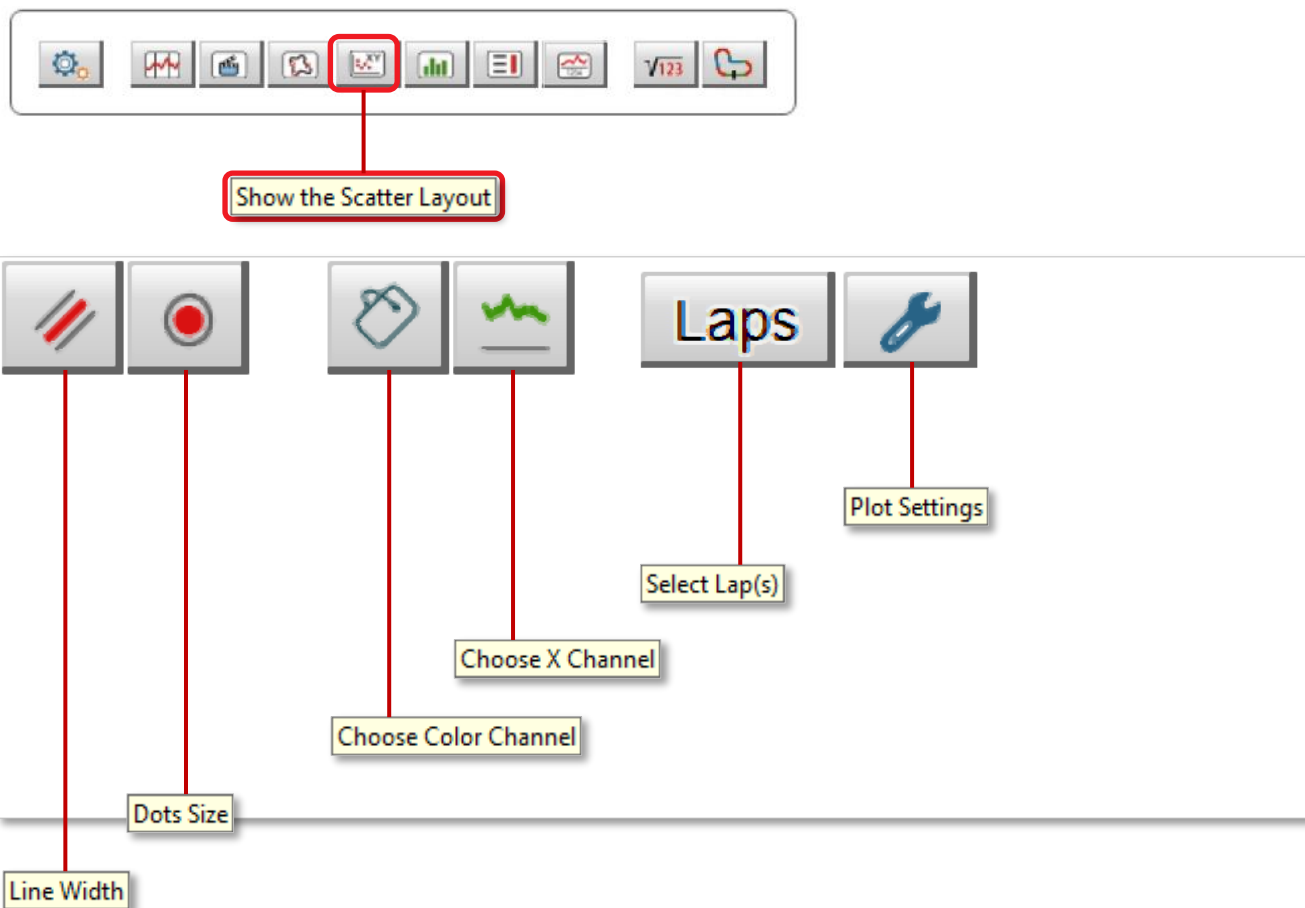


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Scatter Plot Function

Scatter Plot Toolbar



Race Studio 3 Scatter Plot

Scatter Plot Toolbars



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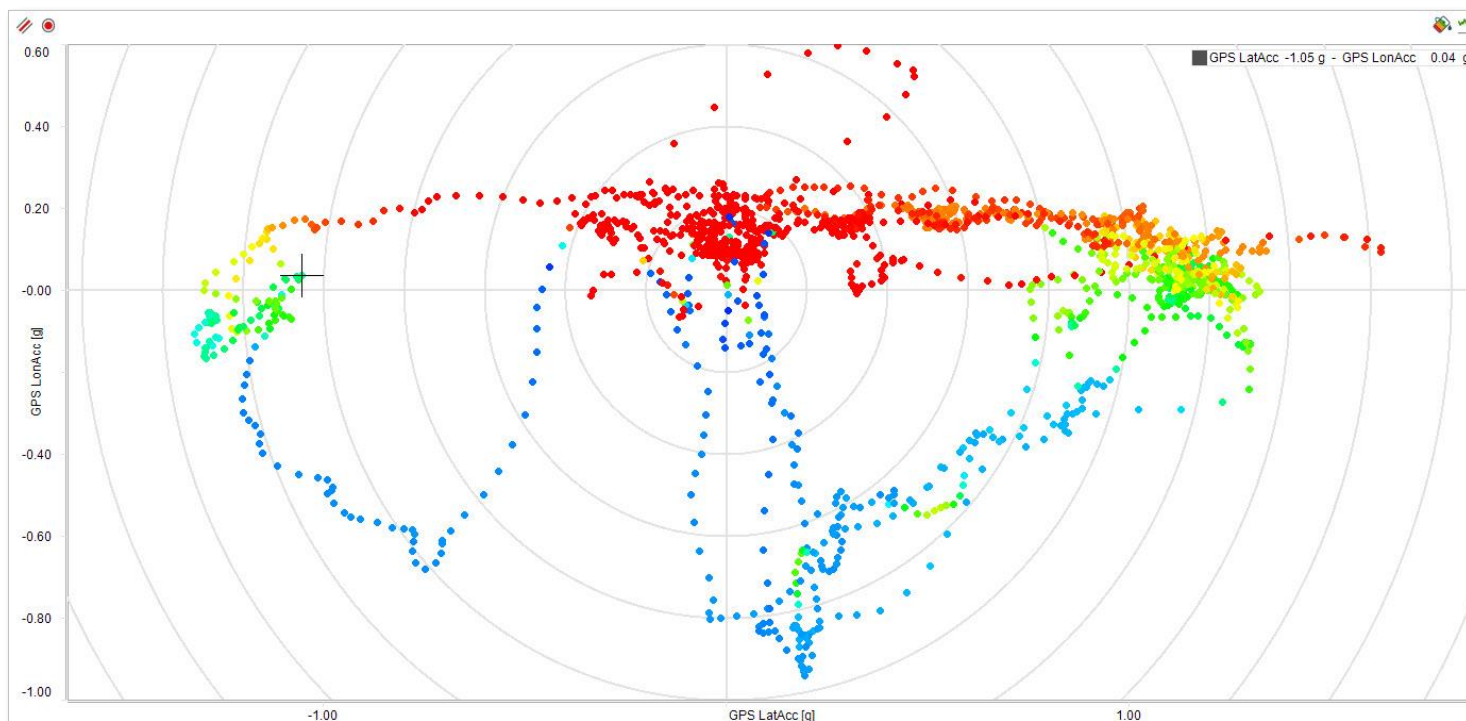
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Scatter Plot Function



Scatter Plot Description

A Scatter Plot Graphs 2 Measures Against Each Other.
The Most Well Known is the Friction Circle (Lateral G versus Longitudinal G)



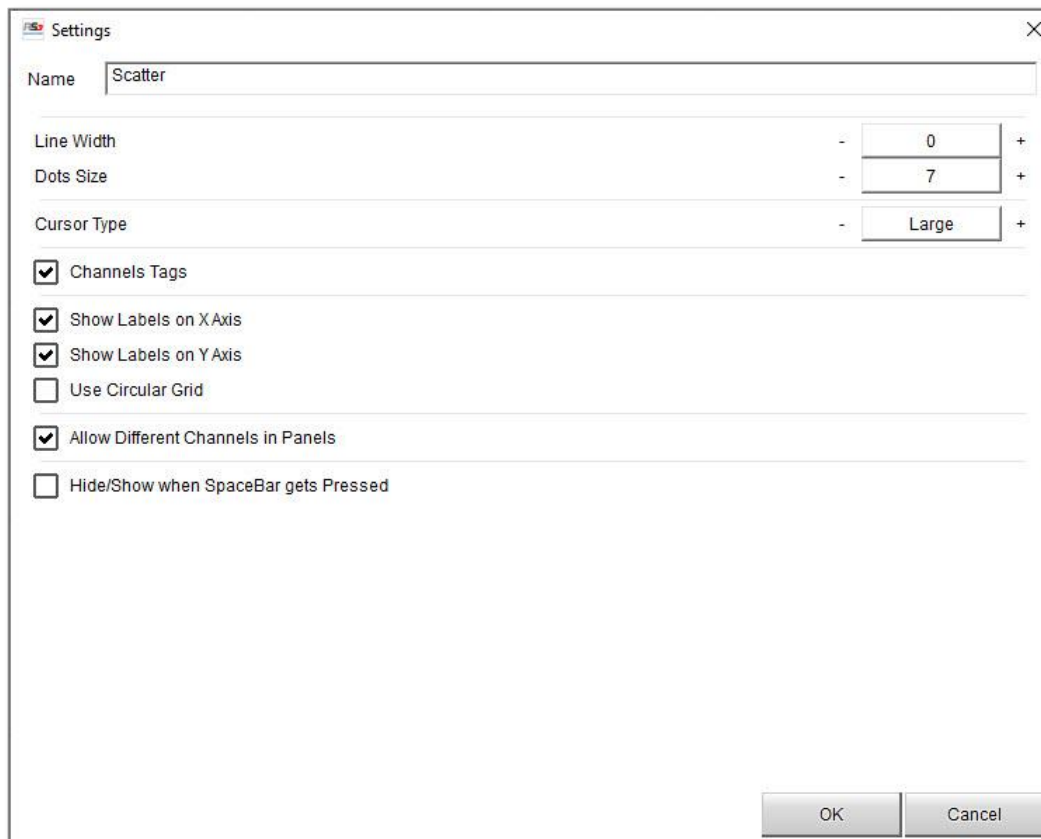
Race Studio 3 Scatter Plot

Scatter Plot Description

Scatter Plot Function

Settings Dialog Box

Right Clicking on the Graph Gives you the First Set of Options not able to be Done with Buttons/Icons on the Graph Itself.



The image shows a 'Settings' dialog box for a scatter plot. It has a title bar with a close button. The 'Name' field is set to 'Scatter'. Below this are three spinners: 'Line Width' set to 0, 'Dots Size' set to 7, and 'Cursor Type' set to 'Large'. There are six checkboxes: 'Channels Tags' (checked), 'Show Labels on X Axis' (checked), 'Show Labels on Y Axis' (checked), 'Use Circular Grid' (unchecked), 'Allow Different Channels in Panels' (checked), and 'Hide/Show when SpaceBar gets Pressed' (unchecked). At the bottom right are 'OK' and 'Cancel' buttons.

Setting	Value
Name	Scatter
Line Width	0
Dots Size	7
Cursor Type	Large
Channels Tags	☒
Show Labels on X Axis	☒
Show Labels on Y Axis	☒
Use Circular Grid	☐
Allow Different Channels in Panels	☒
Hide/Show when SpaceBar gets Pressed	☐

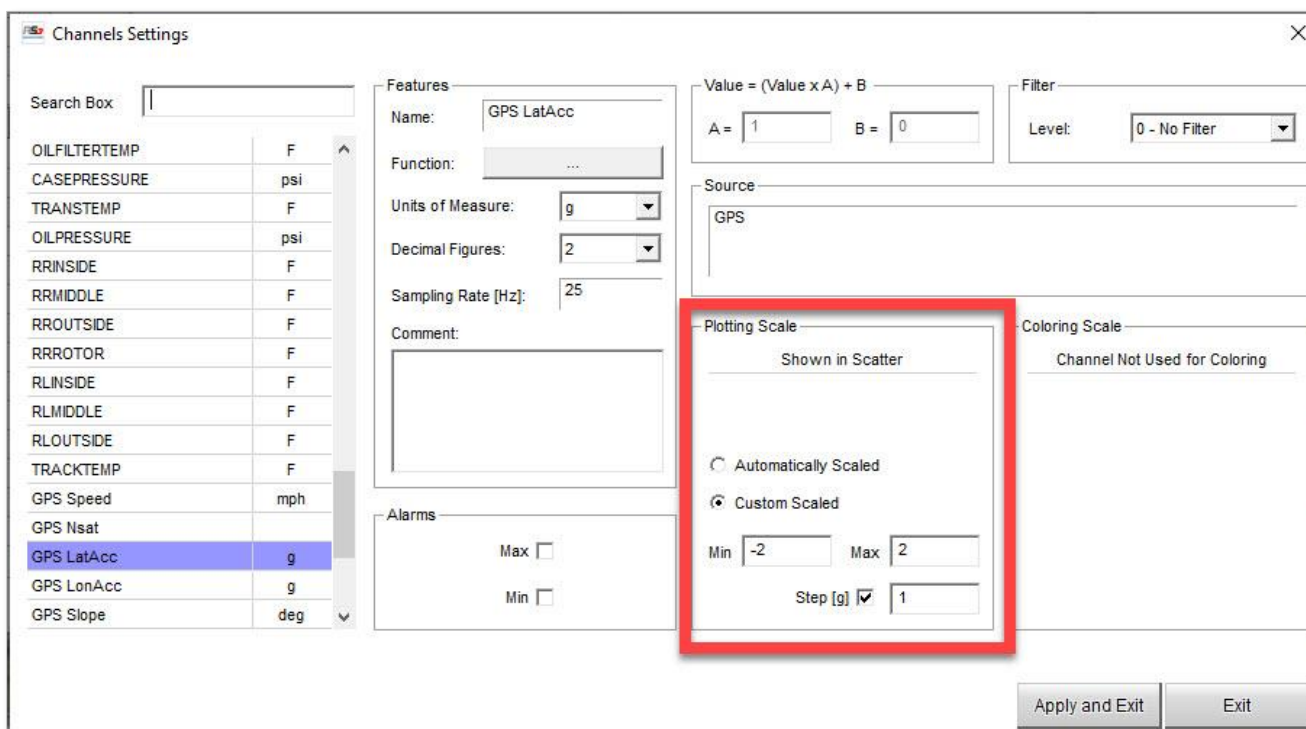
Race Studio 3 Scatter Plot

Settings Dialog Box

Scatter Plot Function

Channel Settings – Plotting Scale

The Channel Settings for the Individual Measures Controls the Plot Range and the Grid Line Spacing. This is for Both the X and Y axis.



The screenshot shows the 'Channels Settings' dialog box. On the left is a list of channels with 'GPS LatAcc' selected. The main area is divided into several sections: 'Features' (Name: GPS LatAcc, Units of Measure: g, Decimal Figures: 2, Sampling Rate [Hz]: 25), 'Value = (Value x A) + B' (A: 1, B: 0), 'Filter' (Level: 0 - No Filter), 'Source' (GPS), 'Plotting Scale' (highlighted with a red box), and 'Coloring Scale' (Channel Not Used for Coloring). The 'Plotting Scale' section has 'Shown in Scatter' selected, 'Automatically Scaled' is unselected, 'Custom Scaled' is selected, and the range is set to Min: -2, Max: 2, with a Step of 1 g. The 'Alarms' section has 'Max' and 'Min' checkboxes. At the bottom are 'Apply and Exit' and 'Exit' buttons.

Channel	Unit
OILFILTERTEMP	F
CASEPRESSURE	psi
TRANSTEMP	F
OILPRESSURE	psi
RRINSIDE	F
RRMIDDLE	F
RROUTSIDE	F
RRROTOR	F
RLINSIDE	F
RLMIDDLE	F
RLOUTSIDE	F
TRACKTEMP	F
GPS Speed	mph
GPS Nsat	
GPS LatAcc	g
GPS LonAcc	g
GPS Slope	deg

Features
Name: GPS LatAcc
Function: ...
Units of Measure: g
Decimal Figures: 2
Sampling Rate [Hz]: 25
Comment:

Value = (Value x A) + B
A = 1 B = 0

Filter
Level: 0 - No Filter

Source
GPS

Plotting Scale
Shown in Scatter
☐ Automatically Scaled
☒ Custom Scaled
Min: -2 Max: 2
Step [g] ☒ 1

Coloring Scale
Channel Not Used for Coloring

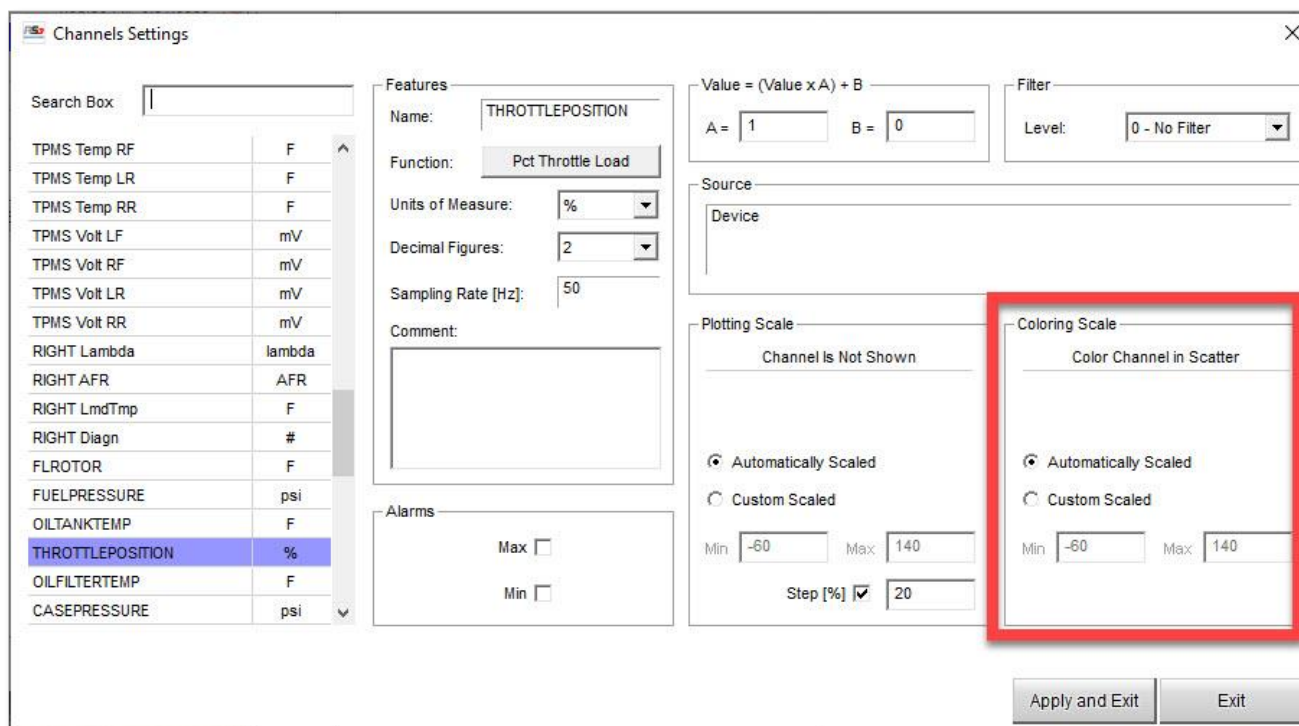
Alarms
Max ☐
Min ☐

Apply and Exit Exit

Scatter Plot Function

Channel Settings – Coloring Scale

The Channel Settings for the Individual Measures also Control the Coloring Scale that is Used When Coloring Graph Points.



Channels Settings

Search Box:

TPMS Temp RF	F
TPMS Temp LR	F
TPMS Temp RR	F
TPMS Volt LF	mV
TPMS Volt RF	mV
TPMS Volt LR	mV
TPMS Volt RR	mV
RIGHT Lambda	lambda
RIGHT AFR	AFR
RIGHT LmdTmp	F
RIGHT Diagn	#
FLROTOR	F
FUELPRESSURE	psi
OILTANKTEMP	F
THROTTLEPOSITION	%
OILFILTERTEMP	F
CASEPRESSURE	psi

Features

Name: THROTTLEPOSITION

Function: Pct Throttle Load

Units of Measure: %

Decimal Figures: 2

Sampling Rate [Hz]: 50

Comment:

Alarms

Max ☐

Min ☐

Value = (Value x A) + B

A = 1 B = 0

Filter: Level: 0 - No Filter

Source: Device

Plotting Scale

Channel Is Not Shown

☒ Automatically Scaled

☐ Custom Scaled

Min: -60 Max: 140

Step [%] ☒ 20

Coloring Scale

Color Channel in Scatter

☒ Automatically Scaled

☐ Custom Scaled

Min: -60 Max: 140

Apply and Exit Exit

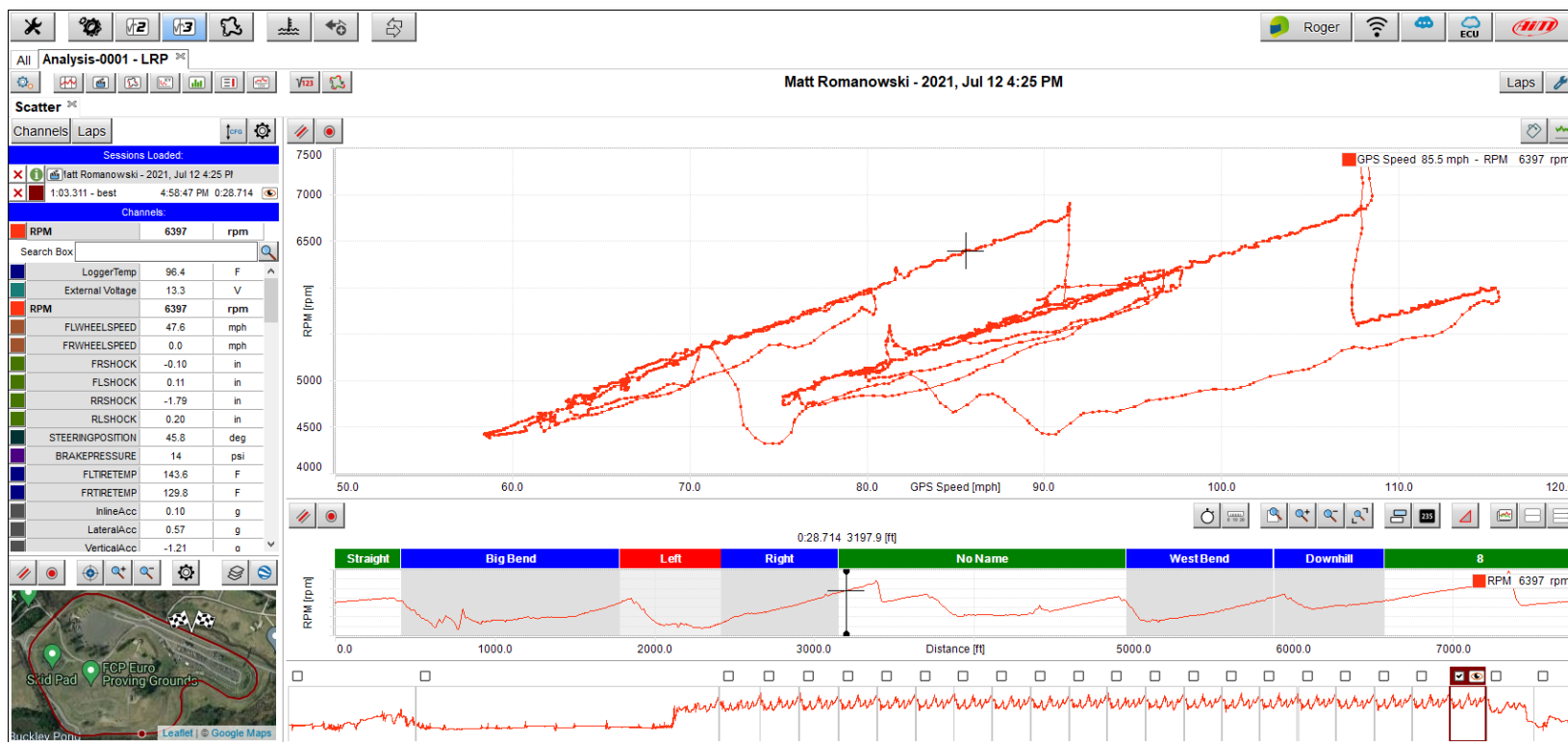
Race Studio 3 Scatter Plot

Channel Settings – Coloring Scale

Live Race Studio Demonstration



RS3A Scatter Plot Function



Race Studio 3 Scatter Plot

Live Race Studio Demonstration

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Scatter Plot Function
Settings and Tips for the Best Use of This RS3A Function

Host:
Roger Caddell
AiM Sports - National Training Manager

Co-Host:
Matt Romanowski
TrailBrake.com - Owner

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- All New 2020 - 22 Live Webinar Videos
 - Software Updates with Race Studio 3
 - Pre-Calculated Gear Position Function
 - Configuring WiFi Communication
 - Customizing AiM Device Logos
 - Race Studio 3 Basic Configuration - Part 1
 - Race Studio 3 Basic Configuration - Part 2
 - **I Have Downloaded my Data, Now What - Part 1*
 - **I Have Downloaded my Data, Now What - Part 2*
 - GPS Lap Insert
 - Data Views
 - Measure Units
 - Sort Channels
 - Test Properties
 - Per Lap Color
 - Export Tests
 - Channel Reports
 - Setting Time
 - Track Mapping
 - Selection Criteria
 - Sensor Calibration
 - Conditional Alarms
 - Gear Position
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 - Transmit Tracks
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Channels Report Function
Settings and Tips for the Best Use of This RS3A Function

Host:
Roger Caddell
AiM Sports - National Training Manager

Co-Host:
James Calborn
Racedata.com

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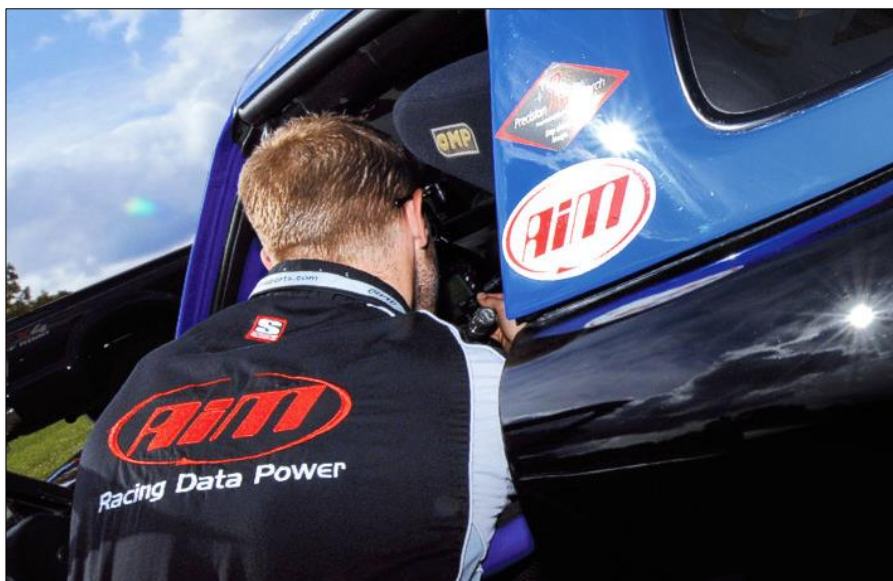
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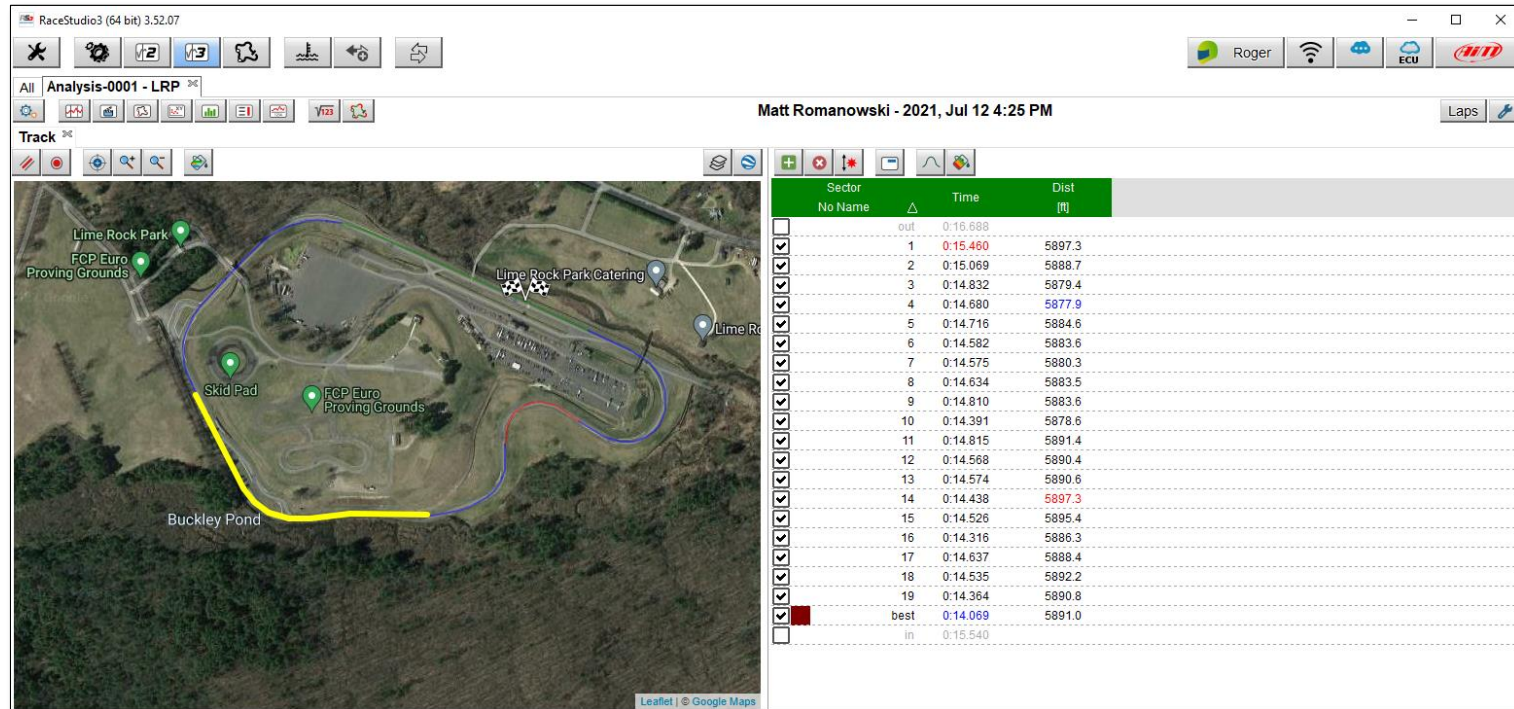
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Race Studio 3 Analysis

The Best Use of the 'Track' Function



Host:

Roger Caddell

AiM Sports - National Training Manager

Co-Host:

Emiliano Bina

AiM-Sportline – Software Lead

Next Webinar: Tuesday April 19th, 2022 - 10:00am Pac/1:00pm East

Next Webinar

RS3A Track Function

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Upcoming Webinars



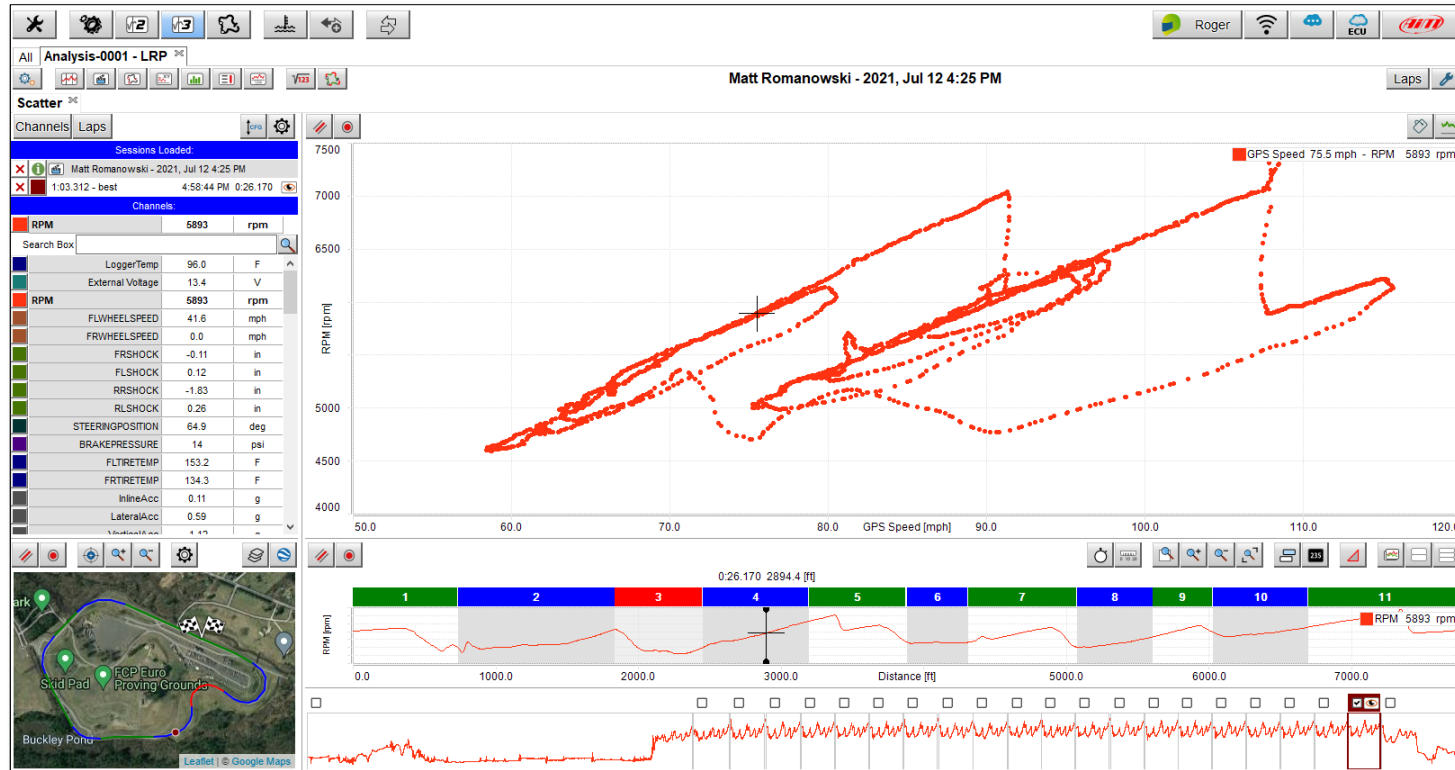
RS3A Focused Webinar Tentative Schedule

Here is our Tentative RS3 Analysis Focused Webinar Schedule

- 3/01/2022 - Personalizing Your RS3A Experience - <https://youtu.be/jEfu8nJuP5k>
- 3/08/2022 - RS3A Beta to RS3A Production - <https://youtu.be/weU3A7mWXGQ>
- 3/15/2022 - RS3A Math Channels - <https://youtu.be/bFeScFY33Jk>
- 3/22/2022 - Transitioning from RS2A to RS3A - <https://youtu.be/hakFXcK3PGg>
- 3/29/2022 - RS3A 'Time-Distance' Function - https://youtu.be/zyB0OWOB8_s
- 4/05/2022 - RS3A 'Channels Report' Function - <https://youtu.be/8lsii5FrAd4>
- **4/12/2022 - RS3A 'Scatter' Function – Today's Webinar**
- 4/19/2022 - RS3A 'Track' Function
- 4/26/2022 - RS3A 'Split Times Report' Function
- 5/03/2022 - RS3A 'Histogram' Function
- 5/10/2022 - RS3A 'Opening Database' Function



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Tuesday April 12th, 2021

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