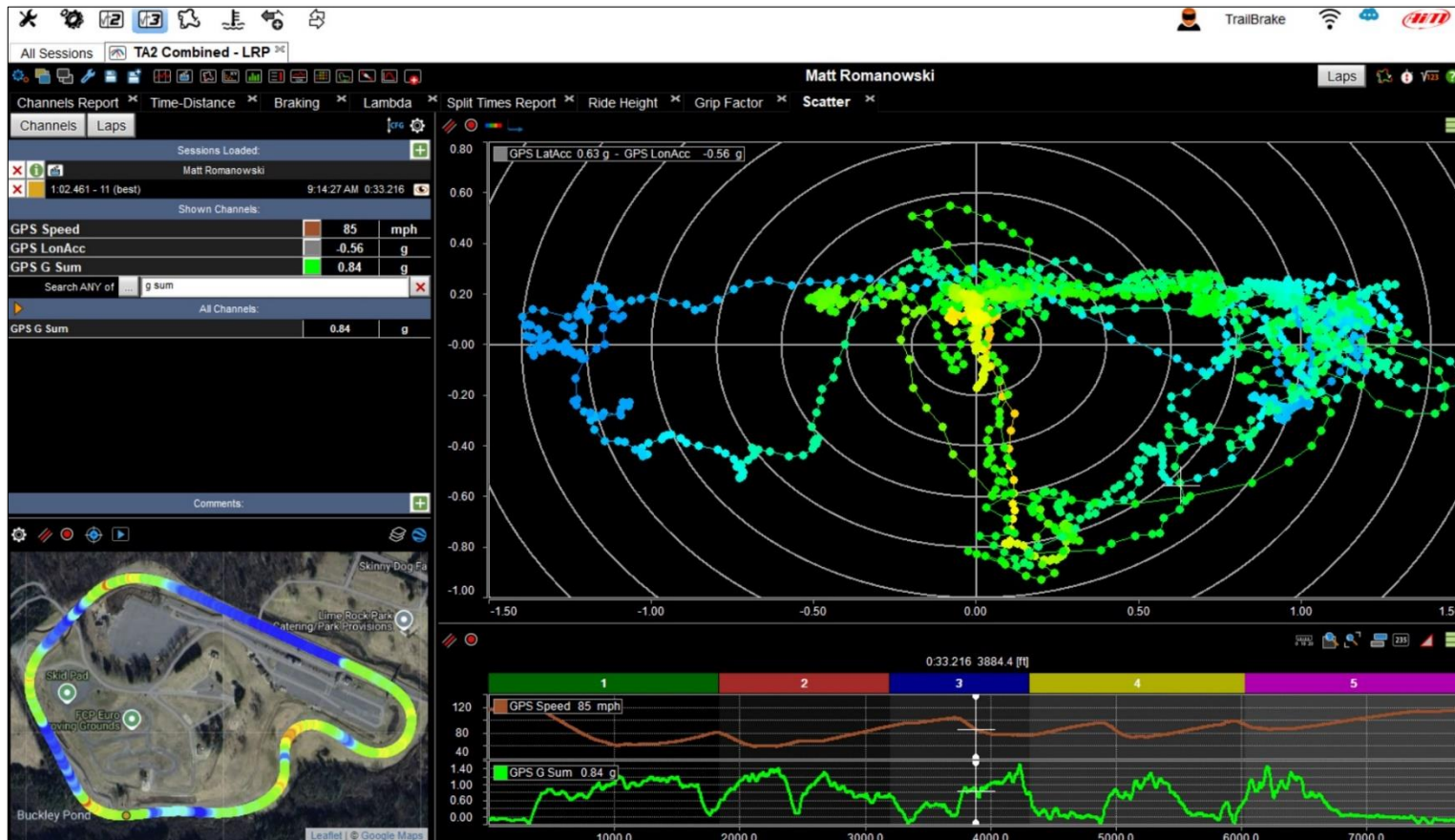


Scatter Plots and Log Sheets



Host:

Roger Caddell

AiM Sports - National Training Manager

Co-Host:

Matt Romanowski

TrailBrake.com - Owner



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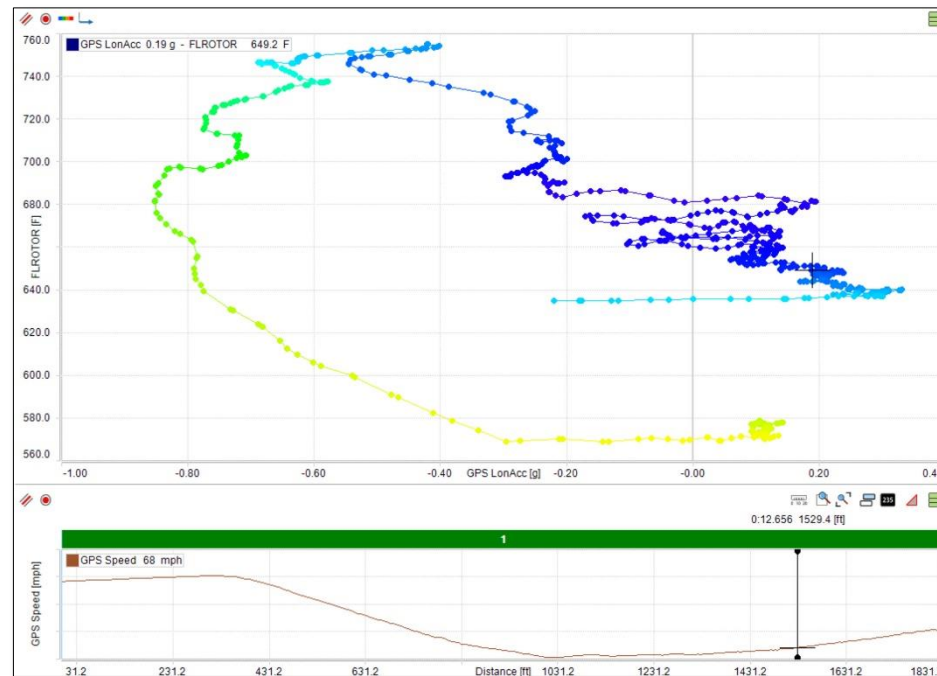
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Scatter Plots

What They Do...

Scatter Plots compare one measure against another. The most familiar is the friction circle, but they are great for many things like gear charts, braking efficiency, and more.



Scatter Plots and Log Sheets

What They Do...

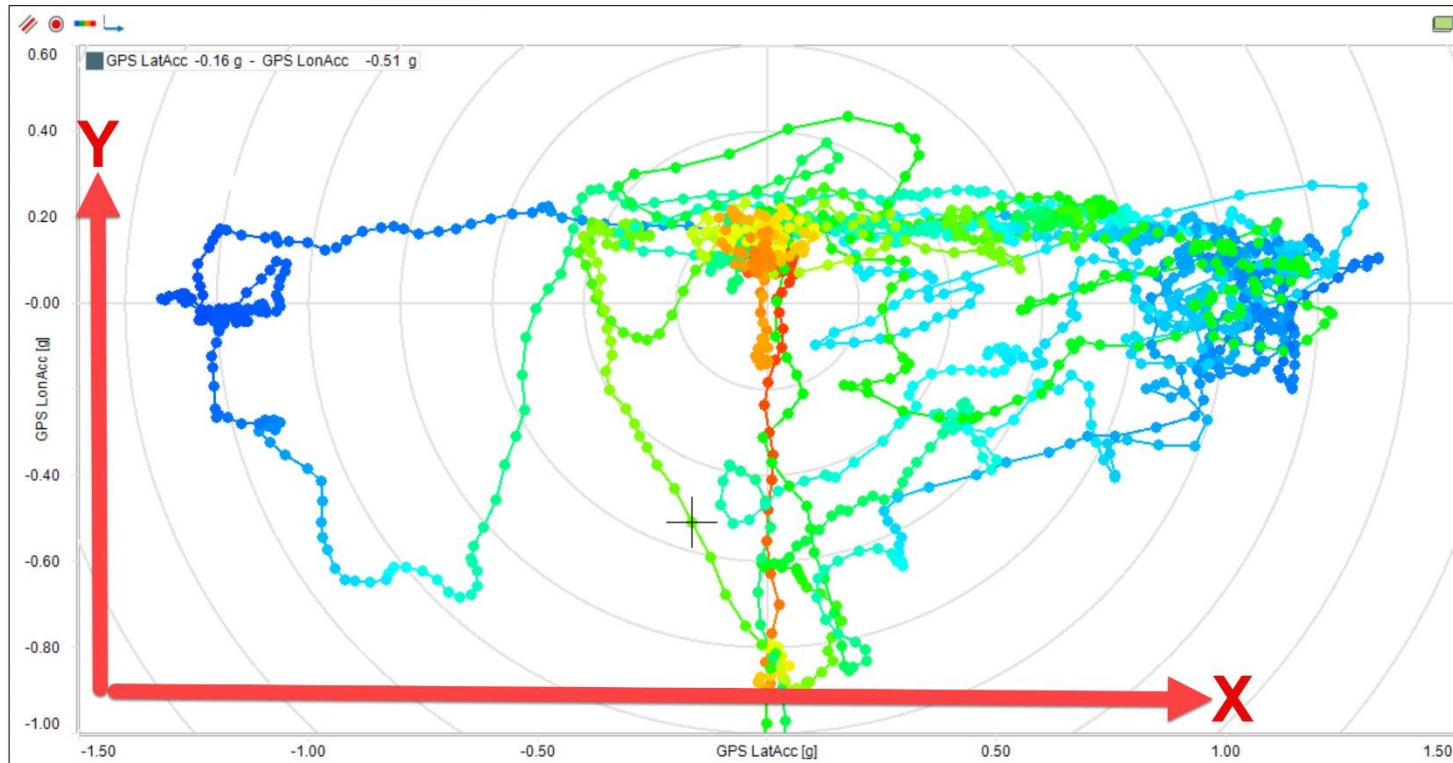
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Scatter Plots

Know the Axis



The Y axis is the up and down while the X axis is left and right.



Scatter Plots and Log Sheets

Know the Axis

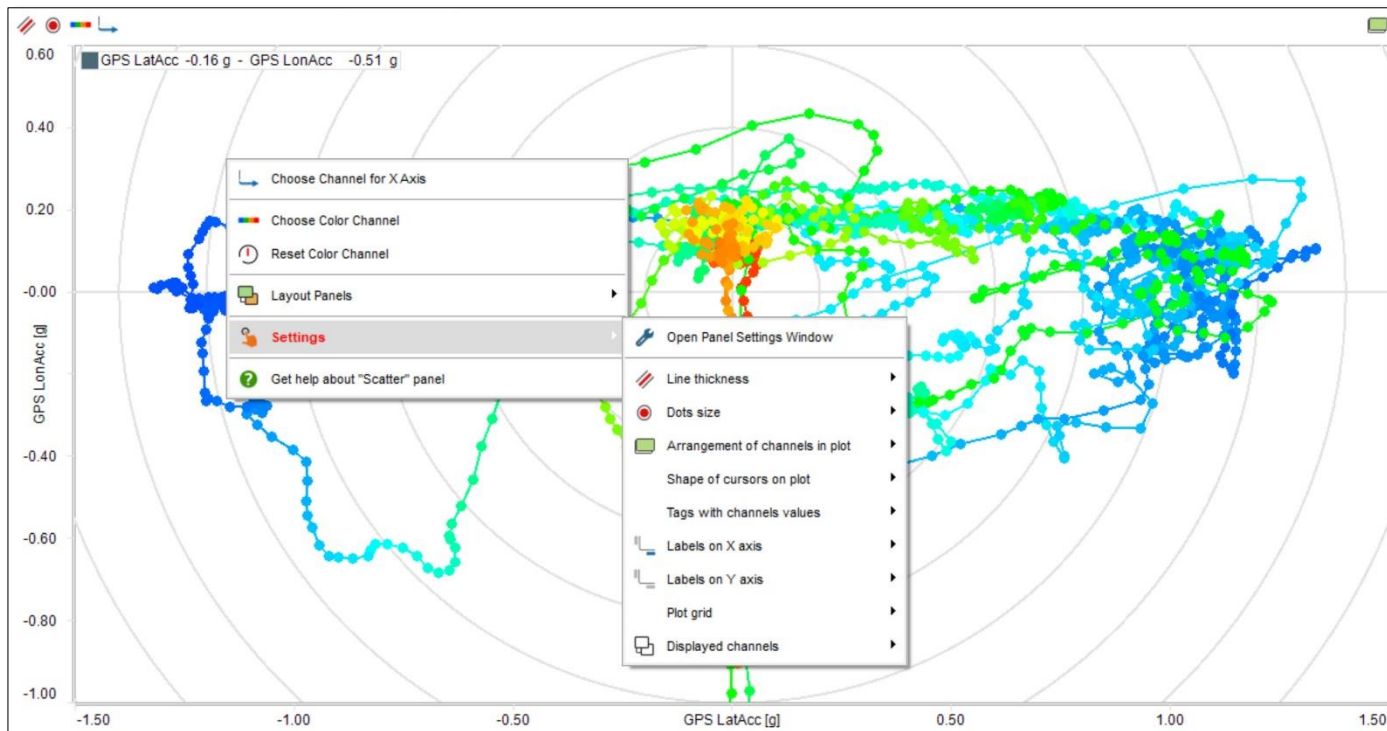
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Changing Settings

Like everywhere else in RS3, using the right click context menus, you can set every parameter. The buttons on the top left allow you to choose line, dot, color, and X axis. The button on the top right allows the graphs mode.



Scatter Plots and Log Sheets

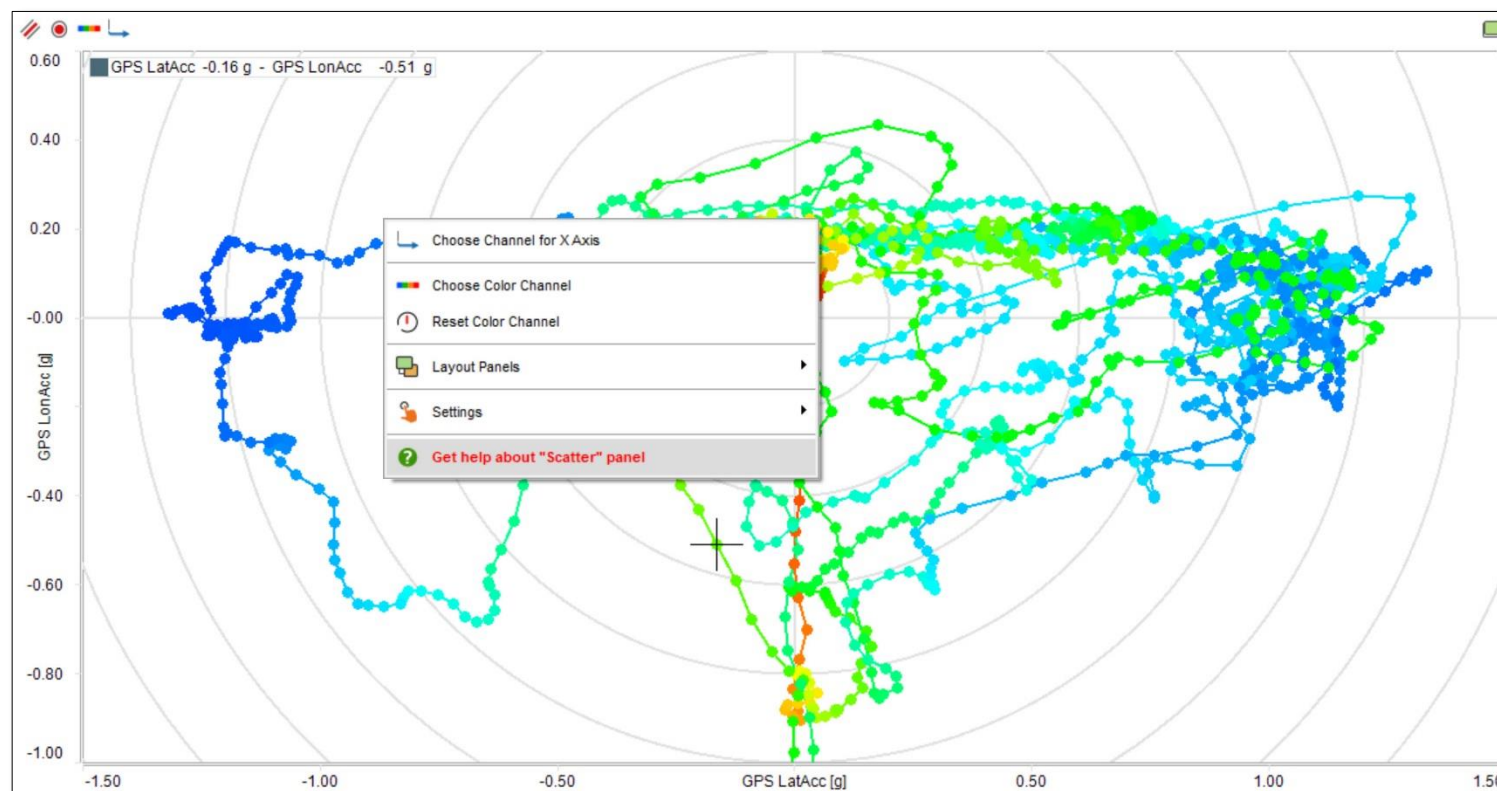
Changing Settings

Getting Help

It's Always Available



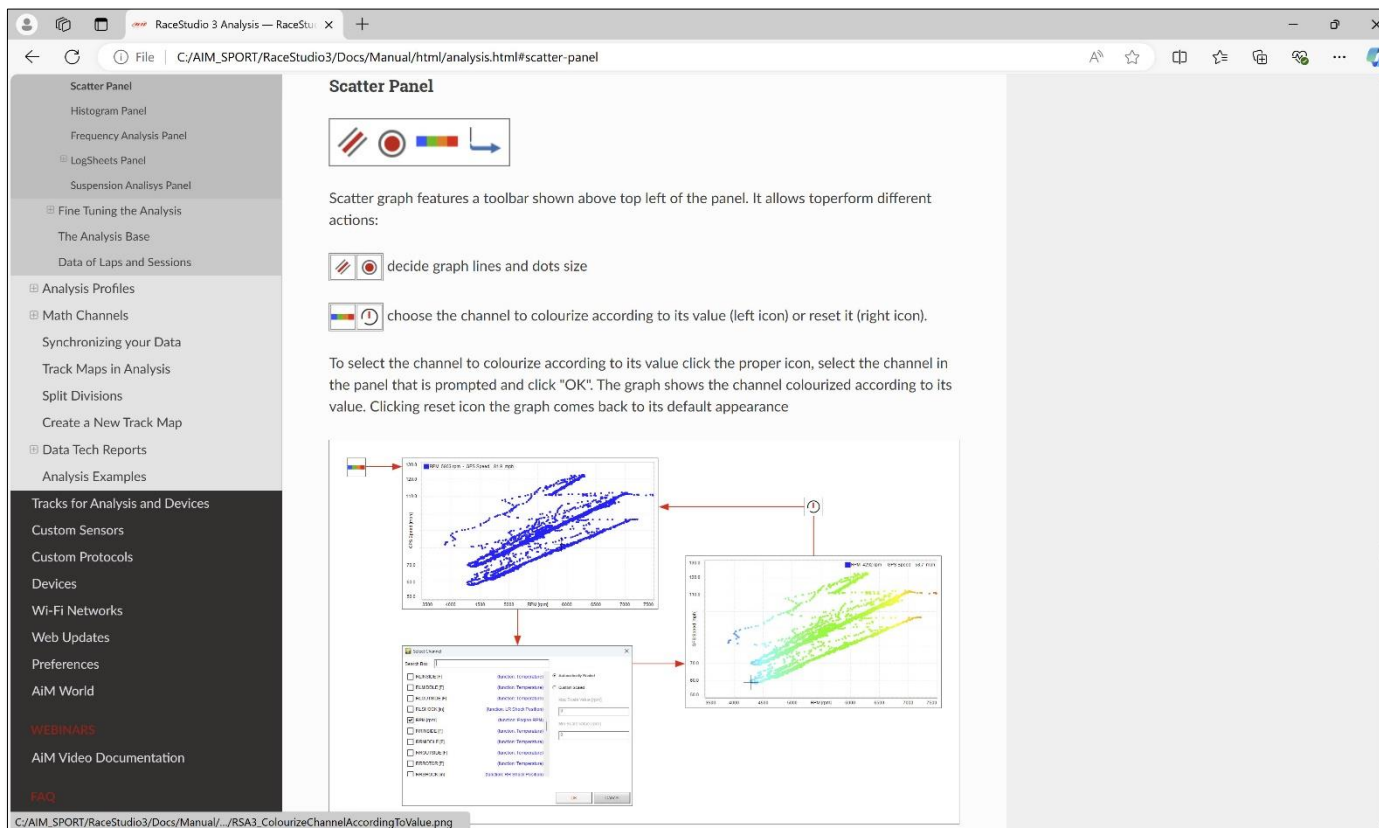
Easy to find help with a right click!



Getting Help

Stored Locally for Easy Access

Make use of the help files. They are packed with info.



The screenshot shows the RaceStudio 3 Analysis software interface. On the left is a sidebar menu with various analysis options. The main window displays the 'Scatter Panel' help documentation. The documentation includes a toolbar with icons for line and dot size, channel colorization, and a reset button. It explains how to use these tools to customize the scatter plot. Below the text are two scatter plots: one showing a default blue-colored plot and another showing a plot with a color gradient (green to yellow) applied to the data points. A 'Scatter Panel' dialog box is also shown, listing various data channels for selection.

Scatter Panel

Scatter graph features a toolbar shown above top left of the panel. It allows to perform different actions:

- decide graph lines and dots size
- choose the channel to colorize according to its value (left icon) or reset it (right icon).

To select the channel to colorize according to its value click the proper icon, select the channel in the panel that is prompted and click "OK". The graph shows the channel colorized according to its value. Clicking reset icon the graph comes back to its default appearance

Log Sheets

A great place to store vehicle specific info for context in your data and use in math channels.

Channels Report
 Time-Distance
 Braking
 Lambda
 Split Times Report
 Ride Height

Fueling Log Sheet

Start Fuel Mass	[lb]	90.00
Start Fuel Volume	[gal]	4.0
Finish Fuel Mass	[lb]	0.00
Finish Fuel Volume	[l]	0.0
Fuel Consumption Mass	[lb]	0.00
Fuel Consumption Volume	[l]	0.0
Fuel Consumption Mass per Lap	[lb]	0.00
Fuel Consumption Volume per Lap	[l]	0.0

Clik Math Channel

Name: Fuel In Car Freq: 10 KHz Search ANY of:

Group: Chiquita ☐ Stepped Values ☒ Linear interpolation ☐ Cubic interpolation

Comment: Calculates fuel in car from beginning

Formula: \$Start Fuel Volume\$[gal]*Distance on GPS Speed [mi]/5

The output of this formula will feature, as function:
The output of this formula will feature, as unit of measure:
The channel will be shown using unit of measure:
The channel will be shown using decimal figures:

Unit of Measure: Fuel Level
Unit of Measure: gal
Unit of Measure: gal
Decimal Figures: 1

Channels Used and Parameters

Channel with name exactly matching: Distance on GPS Speed	[ft]
Value for logbook: Start Fuel Volume	[gal]

Identifiers

- Sessions Channels - Device
- Active Tune Set
- BRAKEPRESSURE
- BarePressure
- Best Today Diff
- BrazePercent
- CASEPRESSURE
- OH
- CORE TEMP
- Calculated Gear
- CoolantTemp
- Drip Link Force
- ECU Battery/Volts
- ECU ErrorCodeCosu
- ECU FirmwareVols
- ECU LoadSyncCoun
- ECU Temp
- ECU is logging
- EngineSpeed
- External Voltage
- FUELTOTR
- FLSHOCK
- FLTRETEMP
- FLWHEELSPEED

Operators

- R
- LOGURLIN
- EULER
- TRUE
- FALSE
- (
-)
- {
- }
- *
- /
-
- +
- %
- Logic
- EQ
- GE
- GT
- Logical Tests
- DriveDataRevs (OD)

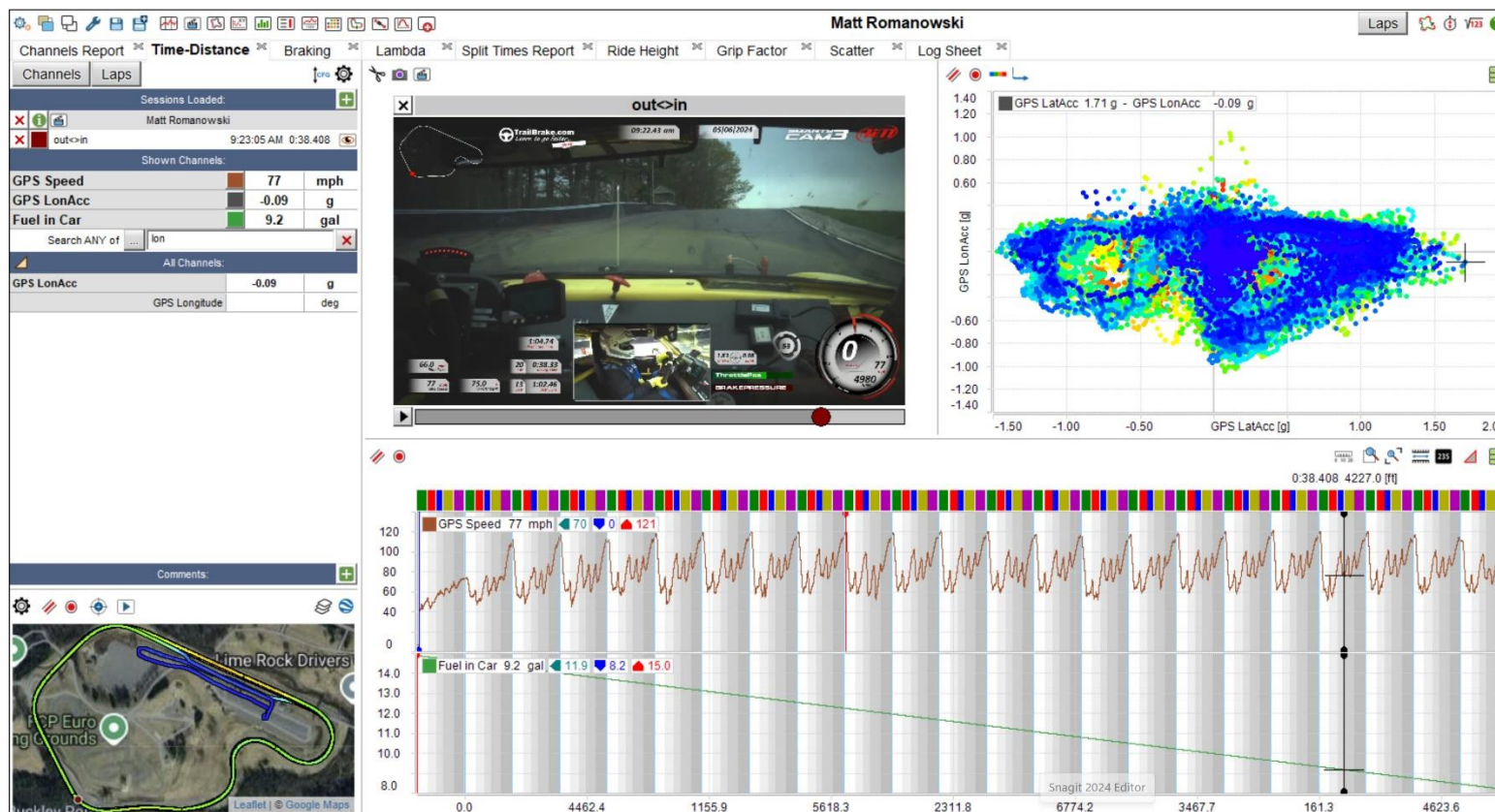
Channel Functions

Phone

Verify Formula OK Cancel

Using the \$XXXX\$ notation,
items from the log sheets can be
referenced in math channels.

Live Race Studio 3 Demo



Scatter Plots and Log Sheets

Live Race Studio 3 Demo

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AIM Sports - National Training Manager

Co-Host:
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 - **I Have Downloaded my Data, Now What - Part 1*
 - **I Have Downloaded my Data, Now What - Part 2*
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 - Data Views
 - Sensor Calibration
 - Measure Units
 - Conditional Alarms
 - Sort Channels
 - Gear Position
 - Test Properties
 - Firmware Update
 - Per Lap Color
 - Solo Configuration
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Additional Materials

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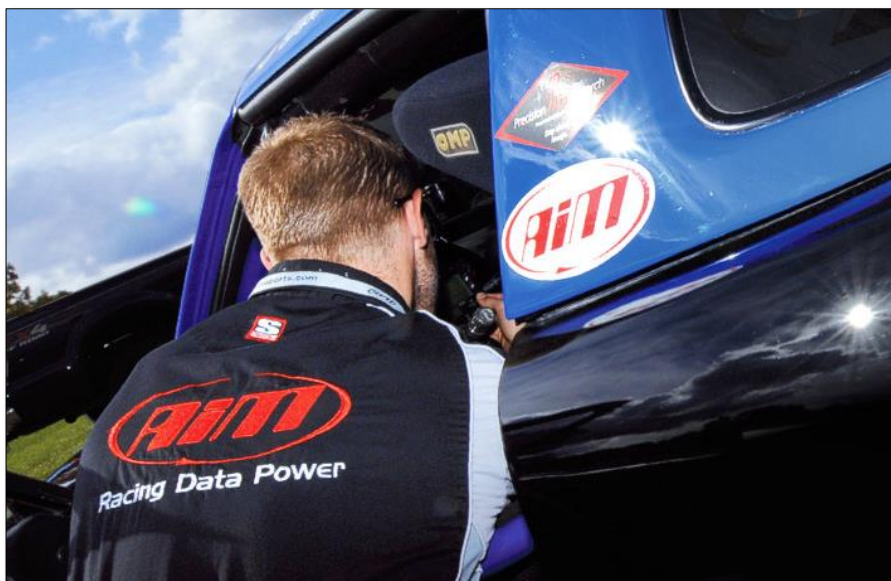
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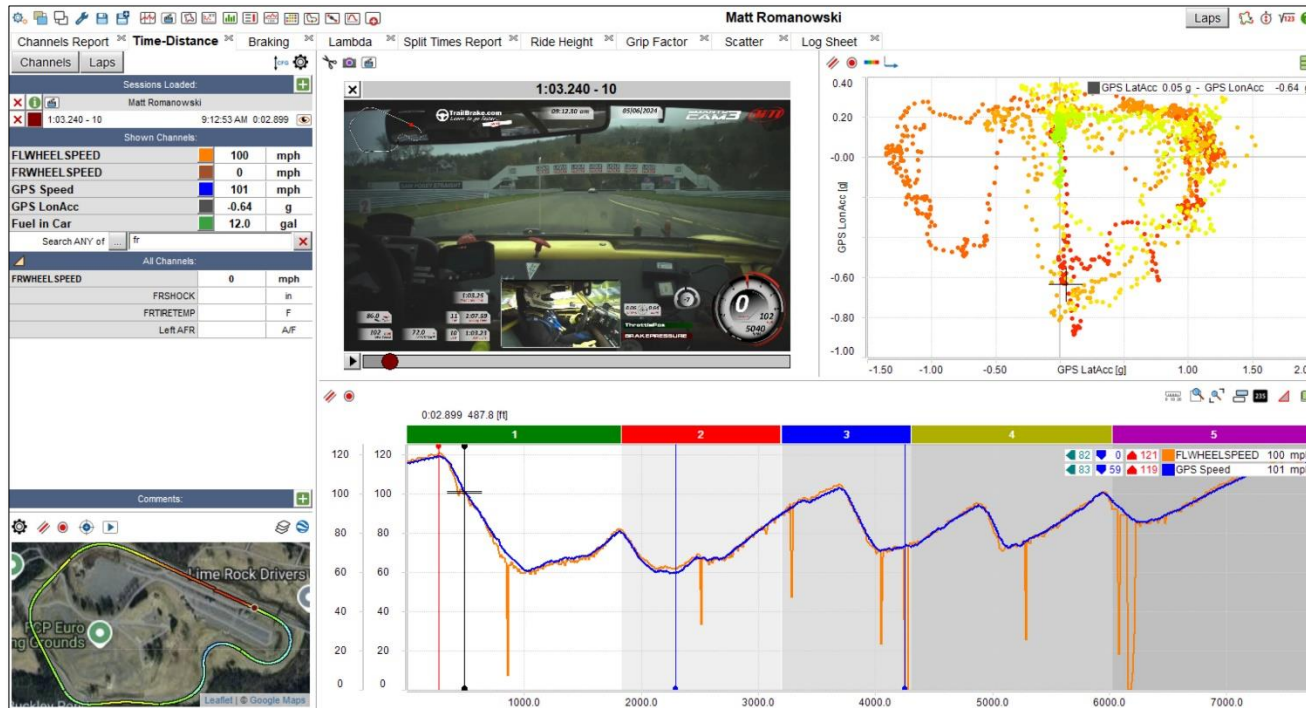
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Next AiM Sports Webinar

Tuesday, September 24th, 2024 – 10am Pac / 1pm East



Wheel Speed vs GPS Speed – When, Why, Where?



Roger Caddell

AiM Sports - National Training Manager

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