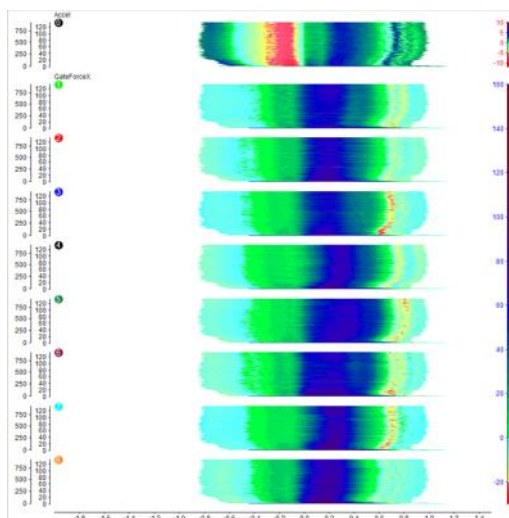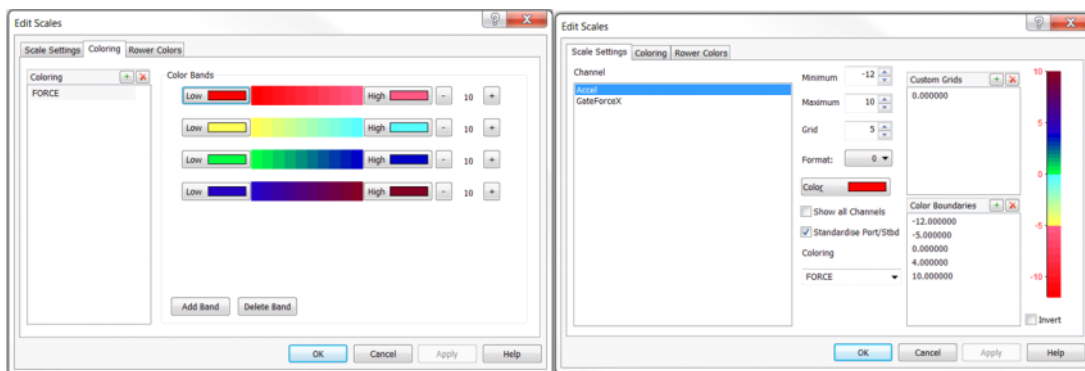# Powerline-new features in Version 4.0

We are delighted to announce that the **Powerline β-version 4.0** is out! Following your suggestions and with a few more ideas we have developed the following new features:

- **Color Map View**: The Color Map view displays periodic data for a selected region plotted against time. Data for each stroke is centred in the first acceleration zero crossing point for each stroke drive and the data for each stroke is drawn from bottom to top, one on top of the other.

Putting different colour bands together, you will be able to create the Color Maps and then define the color boundaries for each channel.
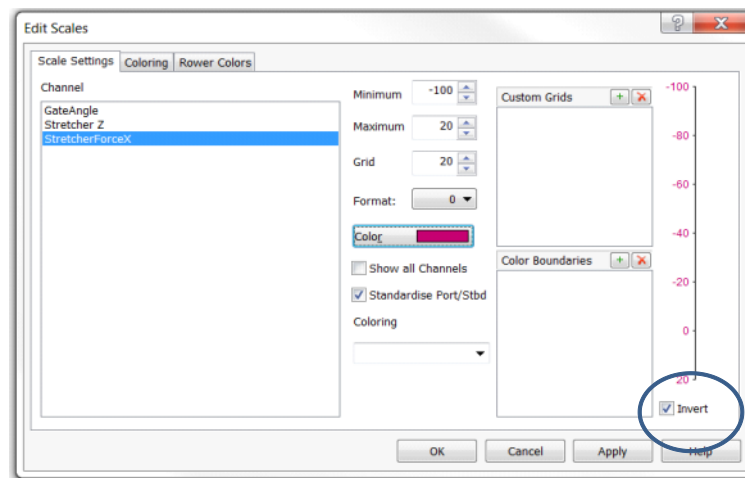

These new graphs are a very interesting way for analysis the consistency through a piece as well as to spot specific events in a stroke that can be highlighted using wisely the color boundaries.
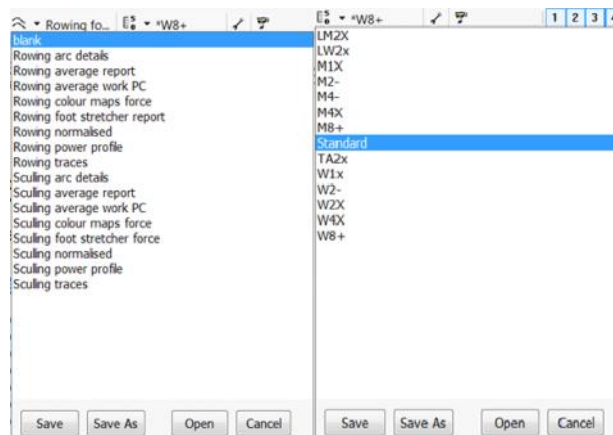
- **New aperiodic channels**:
    - Drive T
    - Recovery T
    - Angle Max F: angle at maximum force.
    - Arc PC Max F: percentage of arc done in drive when reaching maximum force.
    - Angle 0.7 F: angle at 70% force (before maximum force).
    - Work PC Q1,Q2,Q3,Q4: percentages of work done during 1st , 2nd , 3rd and 4th quarters of the drive.

Instant
Drive Time
1 0.83 s
2 0.88 s
3 0.86 s
4 0.92 s
Recovery Time
1 0.99 s
2 0.99 s
3 0.99 s
4 0.95 s
Angle Max F
1 -19.2 °
2 -24.1 °
3 -21.8 °
4 -14.4 °
Arc PC Max F
1 34.4 %
2 33.5 %
3 35.2 %
4 43.4 %
Angle 0.7 F
1 -34.9 °
2 -37.3 °
3 -38.2 °
4 -28.9 °

Instant
Work PC Q1
1 23.6 %
2 21.0 %
3 22.3 %
4 13.7 %
Work PC Q2
1 48.4 %
2 45.7 %
3 47.0 %
4 49.1 %
Instant
Work PC Q3
1 28.0 %
2 33.3 %
3 30.8 %
4 37.2 %
Work PC Q4
1 10.8 %
2 9.7 %
3 15.9 %
4 12.7 %

- **Invertible axis**: In the scales configuration dialog, you will be able to invert the scales by checking the box below the scaling axis. It might be very interesting when displaying the foot stretcher force for example.

We have also included some new templates including the new channels and a standard scaling with some color bands and boundaries.

We hope you will find the new features very interesting and helpful. We will be looking forward to hearing your thoughts about this new version.