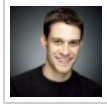


New graphical output options in JMP 10



Daniel Valente | DECEMBER 22, 2011

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For the last part of this four-part series on graphical output using [JMP](#), I spoke with Brian Corcoran, Director of Software Development, about the exciting improvements in the graphical output options that are in the upcoming JMP 10 release. If you missed the first three installments in this series, be sure to check them out.

Dan: Brian, I know that there are some new options for getting high-quality graphics out of JMP 10, can you tell me what you and your team have added for this release?

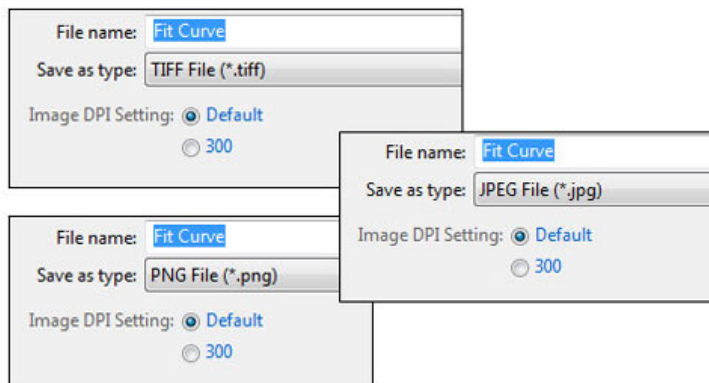
Brian: We have added numerous features that make getting high-quality graphics out of JMP easy. The biggest change is adding a 300 DPI option for several of raster-image formats. We've added the option to save graphics from JMP at 300 DPI in the .tiff, .png and .jpeg format.

Dan: That's great – what does this mean for the average JMP user?

Brian: The big thing is being able to output images that have a high enough resolution to use in a presentation or printed document without needing to resize them, in a format that everyone is familiar working with. In previous versions of JMP, if I output a graph in the .jpeg format and wanted to use it in a presentation, it may have been too small to fill the page without the need to increase the size. When you enlarge non-vector images, this leads to a reduction in image quality.

Dan: That sounds like it will make it easier to get high-quality images in reports or presentations directly out of JMP, without having to use any non-standard image formats or third-party software. Can you show me how users are able to select the 300 DPI options when saving their graphic files out of JMP?

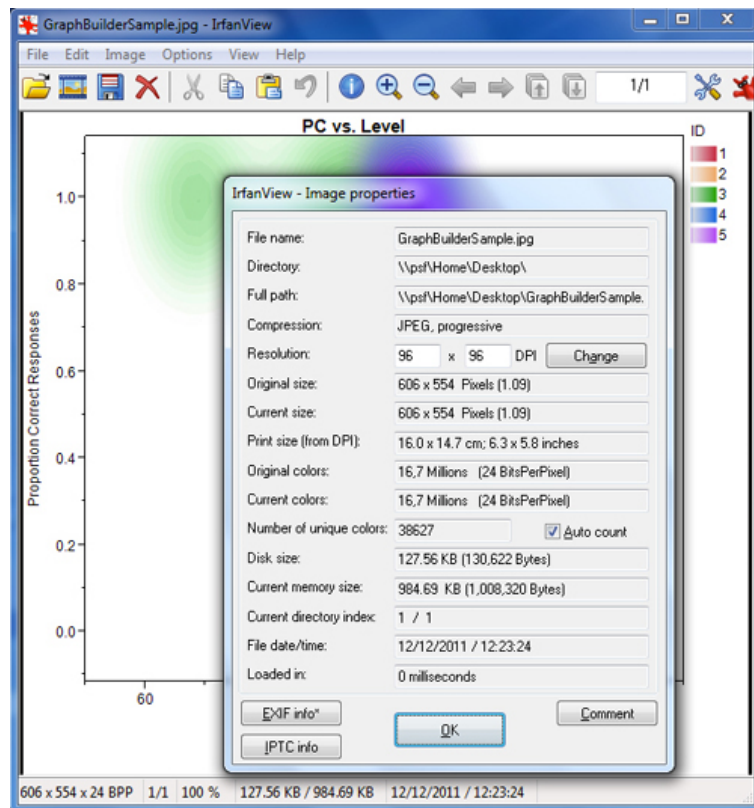
Brian: Sure, in the **file -> Save As** screen, when you select the .jpeg, .tiff or .png file format, there will be two options given to you now, as shown in the figure below. In order to save a file as a 300 DPI image, simply click the 300 option. The option also exists to save files in the standard, default DPI if the higher resolution file is not needed.



Dan: What is the the default image DPI setting, and how large will the file be, in pixels, when I save it out?

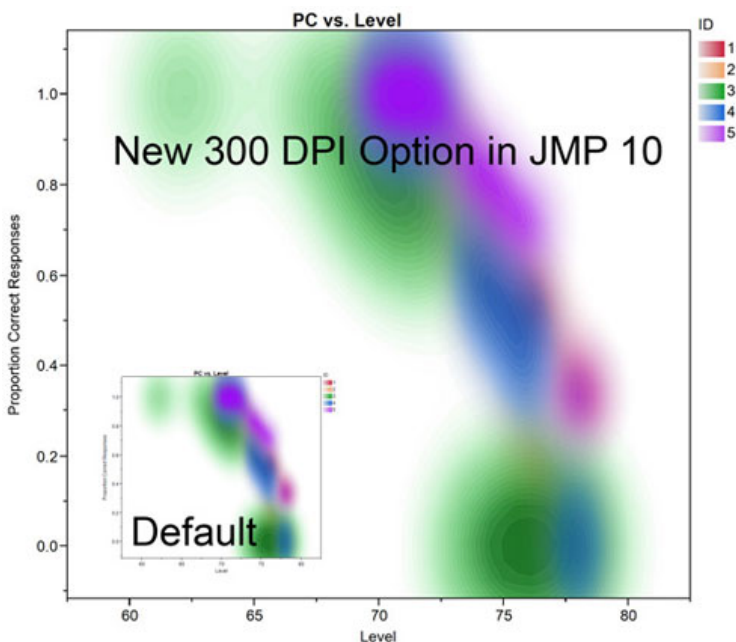
Brian: The image below shows what happens when I export an image from the Graph

Builder platform at the default screen size as a .jpeg file. If we open the image up in an external image editor and look at the specifications, you can see that it's about 600 x 550 pixels and is saved at 96 DPI. While this looks good at this native size on the screen, if I had a slide that I needed to fill that was 1024 x 768 pixels in dimensions with an image, I'd have to resize this graph, which would stretch the pixels – and we'd start to lose clarity.



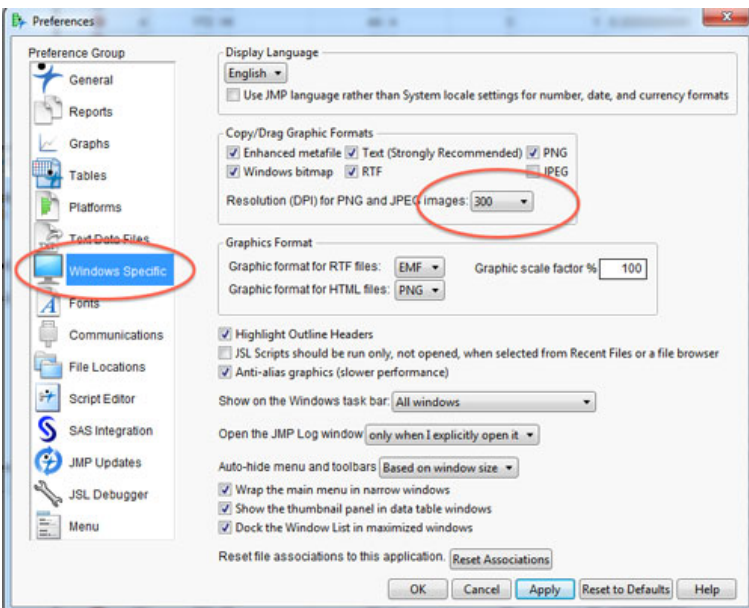
Brian then showed me the difference in relative pixel dimensions between the default output DPI and the image saved with the new 300 DPI option.

Brian: In the image below, you can see I've overlaid the image saved at the default DPI, which I displayed above, with the image output in the new, 300 DPI size. Because the pixel dimensions are now approximately 1850 x 1700, I have much more flexibility when it comes to positioning this graph in a presentation or print document. Continuing with the example I mentioned previously, in order to fill a slide that happens to be 1024 x 768 pixels, I can shrink the image down from its output size and not lose any clarity in my final output; the text will remain clear and the graphics without any visible pixelation.



Dan: Are there any other features that the users should know about regarding graphical output improvements in this upcoming release of JMP?

Brian: Yes, there is one more: In the Windows version of JMP 10, we've made improvements to the options users have for configuring the Copy/Drag Graphic Formats. This is a really great feature because it lets users pick the resolution for .png and .jpeg images when they copy and paste or drag graphics within JMP. This is set in the preferences menu in JMP. The setting is in **Preferences -> Windows specific -> Copy/Drag Graphic Formats**. Users can now set the resolution (DPI) for .png and .jpeg images to 300, and this setting will affect the graphic output program-wide. We've really made it easier to get higher-quality graphics out of JMP. Here's a screenshot of the Preferences pane.



Dan: Thanks, Brian, for showing me and the JMP community what we can expect regarding the graphical output improvement in the upcoming JMP 10 release. These improvements should make it even easier to share any of the compelling visualizations created in JMP no matter what medium the graphics need to be shared in – whether that is in print, on the Web or in a presentation.

tags: [Data Visualization](#), [JMP - General](#), [JMP 10](#), [Tips and Tricks](#)

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