



Declaring Some Deliverables	
 In this talk, we hope to illustrate how Stat-Ease's latest software allows us to explore beyond standard DoE tools, and create bespoke solutions for one-off and/or routine use 	
• We will briefly revisit topics covered by Dr. Paul Nelson, our Technical Director, at Stat-Ease's Paris 2018 DoE Summit: <u>"Practical (Real Life) Implementation of DSDs"</u>	
 Through Python, we will take you on a Quest for the Holy Grail of DSDs: an automated tool that appropriately identifies and fits the best possible model to our data! 	
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Defining Subsequent Discussion

- Describing our Services and Details
- Declaring Some Deliverables
- DX / SE360 Differences
- Detour into Software Details
- Decidedly Suspicious Disclaimers
- Design Summary & Discussion
- Defining Sample Data
- Debating Standard Design tools
- Demanding Specialised Decisions
- Delicately Splitting our Data
- Daydreaming about Software Development
- Diving into a Speedy Demo

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Decidedly Suspicious Disclaimers
• Warning: this DSD / Python talk is not presented by a proper statistician, nor a good Python programmer
 My interest is practical problem solving: helping people to find the sweet spot between science, statistics and software makes me happy!
• and if I can hack together a Python tool, then so can you!
 Our Python demo app has been developed solely as a worked example for this talk; we want to show how SE360's Python integration can provide enormous flexibility.
 Disclaimers aside, we hope that our talk might inspire you to exploit SE360's extensibility for your own benefit!!
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Done! Sayonara, Dudes!

- In summary:
 - Unique situations can require one-off solutions...
 - Routine, complex methods can be automated...
 - Users can be encouraged to apply the most appropriate analyses via custom tools...
 - ... all of which is now possible via Python in SE360!
- With sincere thanks to:
 - My long-suffering colleagues at Prism;
 - Our good friends at Stat-Ease (especially Shari, for inviting us to talk today);
 - DoE practitioners, whose continued work inspires the ongoing evolution of DoE tools;
 - You, my Dear Statistical Devotees, for listening today!
- Any comments / questions? Feel free to get in touch via prismtc.co.uk/contact

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