The Future of SAS Enterprise Guide and SAS Studio
Agenda

• Where we’ve come from
• Where we are
• Where are we going?
• What’s coming in SAS Enterprise Guide
• What’s coming in SAS Studio
• Roadmap
Where We’ve Come From
SAS Display Manager, SAS Enterprise Guide, SAS Studio
Where We Are
What’s common between SAS Enterprise Guide and SAS Studio

• Common file navigation
Where We Are
What’s common between SAS Enterprise Guide and SAS Studio

- Use SAS Studio tasks in SAS Enterprise Guide
Where We Are

What’s common between SAS Enterprise Guide and SAS Studio

• Convert EGP files to SAS Studio process flows (experimental for SAS Studio 3.6, production 3.7)
Where Are We Going?
Interoperability between SAS Enterprise Guide and SAS Studio

• Short Term:
  • Bring the SAS programmer features of SAS Studio into SAS Enterprise Guide
  • Bring the assistive / point-and-click features of SAS Enterprise Guide into SAS Studio

• Long Term:
  • Expand common assets beyond .sas files
  • Execution convergence – consistent way of executing jobs

• Ultimate Goal:
  • Users move seamlessly between the two leveraging the strengths of each – browser and rich-client
What’s Coming for SAS Enterprise Guide
Major Release (8.1) Planned for 2019

• Refresh of the UI to match current SAS themes.
• Window docking management.
  • Drag and float or dock with drop zone previews
  • Tear-off views
  • Leverage multiple monitors
• Ability to create, edit, and save SAS code without requiring a project or process flow.
Refresh the Look
Establish a Familial Resemblance Across SAS Products
Lots of Pane Layout Flexibility
Dock, Float, Stack
Layout Major and Minor Tabs
Open Files

- See status of files that are open – queued to be submitted, submitting, need to be saved
- Organize tabs – close, rearrange
Better Notifications
That Don’t Get in Your Way
Output Data Performance Options

- New options for controlling what output data to open automatically

When generating tables in a program, automatically open:

- [ ] Last table

- [ ] Unlock open data after inactivity (minutes): 3

- [ ] Unlock all open data before running code

- [ ] Automatically refresh open data tabs after running code
I love the way EG adds files to projects and process flows for me.
I love the idea of a projects and process flows, but I want to add files myself.

Add Files to a Project
Manually
No Project!

I just want to program – not interested in projects or process flows
What’s Coming for SAS Studio

Major release (5.x) planned for 2019

• Re-write of UI and mid-tier to take advantage of new technology and SAS standards

• High feature requests
  • Customize code editor appearance
  • Organize and search assets
  • Snippet abbreviations
  • Append log
  • Interactive perspective, improved
Customize Editor
Appearance & Behavior
Organization

Filter Tasks and Snippets in Pane

Hide/Show Tasks and Snippets
Organization
View Open Tabs At-A-Glance
Snippet Abbreviations

@ is the trigger

Define your abbreviation

TAB or ENTER inserts snippet

List of snippets with abbreviations

Preview snippet
Improved Search

Open files directly from the Search view

<table>
<thead>
<tr>
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<th>Name</th>
<th>Sex</th>
<th>Age</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alfred</td>
<td>M</td>
<td>14</td>
<td>69</td>
<td>112.5</td>
</tr>
<tr>
<td>2</td>
<td>Alice</td>
<td>F</td>
<td>13</td>
<td>56.5</td>
<td>84</td>
</tr>
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<td>Barbara</td>
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<td>13</td>
<td>65.3</td>
<td>98</td>
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<td>F</td>
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</table>

<table>
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<tr>
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<th>Modified</th>
<th>Size</th>
<th>Type</th>
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<tbody>
<tr>
<td>CLASS</td>
<td>SASHELP.CLASS</td>
<td>12/6/2017, 9:43:22 AM</td>
<td></td>
<td>Table</td>
</tr>
<tr>
<td>CLASSFIT</td>
<td>SASHELP.CLASSFIT</td>
<td>12/6/2017, 9:51:09</td>
<td></td>
<td>Table</td>
</tr>
</tbody>
</table>
Control How the Log Behaves

Timestamp – click to open the code, log, results, data for that submission

Append the log; clear at will
Managing Your Session

Submission Status

Click to open the code, log, results, data for that submission

<table>
<thead>
<tr>
<th>Status</th>
<th>Name</th>
<th>Type</th>
<th>Run Time</th>
<th>Submitted</th>
<th>Completed</th>
</tr>
</thead>
</table>
Interactive Perspective
Append log and results, recall last submitted code
Working with Tables
Filter in-place

<table>
<thead>
<tr>
<th></th>
<th>Name</th>
<th>Team</th>
<th>nAtBat</th>
<th>nHits</th>
<th>nHome</th>
<th>nRuns</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Griffin, Alfredo</td>
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<td>594</td>
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<tr>
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<td>Trammell, Alan</td>
<td>Detroit</td>
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<td>159</td>
<td>21</td>
<td>107</td>
</tr>
<tr>
<td>3</td>
<td>Bell, Buddy</td>
<td>Cincinnati</td>
<td>568</td>
<td>158</td>
<td>20</td>
<td>89</td>
</tr>
<tr>
<td>4</td>
<td>Buckner, Bill</td>
<td>Boston</td>
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<td>18</td>
<td>73</td>
</tr>
<tr>
<td>5</td>
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<td>Cleveland</td>
<td>587</td>
<td>163</td>
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<td>92</td>
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<tr>
<td>6</td>
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<td>Houston</td>
<td>550</td>
<td>152</td>
<td>6</td>
<td>92</td>
</tr>
</tbody>
</table>
Notebooks in SAS Studio

Getting Started

- SAS Code in a cell
- Markdown in a cell

```sql
proc sql;
select * from sashelp.baseball;
```

The SQL Procedure

Query Results

```
Player's Name | Team at the End of 1886 | Times at Bat 1886 | Hits in 1886 | Home Runs in 1886 | Runs in 1886 | RBIs in 1886 | Wa
-----------------|-----------------------|-----------------|--------------|------------------|--------------|--------------|-----
Alonzo, Andy     | Cleveland             | 293             | 88           | 1                | 30            | 29           |
Adney, Allen     | Houston               | 315             | 81           | 7                | 24            | 38           |
Davis, Alman     | Seattle               | 470             | 130          | 10               | 55            | 73           |
Dawson, Andrew   | Montreal              | 406             | 111          | 20               | 56            | 73           |
Gottgens, Andre  | Montreal              | 321             | 87           | 10               | 39            | 42           |
Griffin, Alfreds | Oakland               | 524             | 150          | 4                | 74            | 51           |
Newman, Al       | Montreal              | 155             | 37           | 1                | 23            | 3            |
Swanson, Angell  | Kansas City           | 248             | 73           | 0                | 24            | 24           |
Thomas, Arndt    | Atlanta               | 323             | 81           | 0                | 20            | 32           |
Thompson, Andrew | Cleveland             | 401             | 60           | 17               | 49            | 68           |
Thurman, Alman   | Detroit               | 574             | 150          | 21               | 107           | 75           |
Tweedy, Alex     | Los Angeles           | 202             | 53           | 4                | 31            | 28           |
Van Slyke, Andy  | St Louis              | 410             | 113          | 13               | 60            | 91           |
Wiggins, Allen   | Baltimore             | 238             | 50           | 0                | 30            | 11           |
Almon, Bill      | Pittsburgh            | 106             | 43           | 7                | 20            | 27           |
Bean, Billy      | Minneapolis           | 158             | 36           | 3                | 20            | 15           |
Brewster, Cy     | Chicago               | 356             | 150          | 20               | 59            | 75           |
Browne, Budweiser| Kansas City           | 100             | 40           | 2                | 24            | 8            |
```

```
SELECT BASEBALL.nMts
FROM SASHELP.BASEBALL BASEBALL;
```
More Features Planned

Enhanced Query tool

- Expression builder for Where and Having
- More operators in Joins
- Calculated columns
More Features Planned

- DATA step debugger
- Integration with Git for source management
- Command Interface
Be a Part of the Discussion
Connect with us on SAS Communities

- SAS Studio community – find it under SAS Programming
- SAS Enterprise Guide community – find it under Business Intelligence
- SASware ballot ideas