Creating Parameter Forms for your SAS Jobs in SAS Studio and SAS Visual Analytics

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Agenda

- Part 1: Basics of the SAS® Viya Job Execution Service
 - Creating Jobs and Working with Job Parameters
 - > Job HTML / XML forms
- Part 2: Scenario analysis with SAS® Visual Analytics



Implementing Scenario Analysis in SAS® Viya





Implementing Scenario Analysis in SAS® Viya





The Viya Job Execution Service (JES) in a nutshell



A user accesses a URL on the Viya server and SAS code runs



Job Input Parameters



Job input parameters are user-defined values that translate into macro variables





Job Forms and HTML Interfaces

SAS® Visual Analytics - Explore and Visualize

| /arehouse <u>Workforce</u> Planning - | Please make your choices and click Submit | © |
|---|---|-----|
| > Submit | | |
| Please enter your Scenario nam | ne here * | |
| | | |
| Please choose the Percentage of decreased | of your workforce that can be increased or | 1 |
| 0 | | |
| Please choose the Percentage of | of your workforce that can be upskilled | |
| • | - | |
| 10.00 20.00 30.00 | 40.00 50.00 | |
| Downgrading of workers to a loworkers leave | ower skill is possible but a percentage of such | |
| Please type Percentage who lea | ave | |
| 50 | | |
| Please specify the Over Mannin | g Range 🗇 | |
| Minimum: * | Maximum: * | |
| 10 | 150 | |
| Fraction of production requiren | nents of a full-time employee that is met by e | ach |

Job forms can be linked and displayed in a Visual Analytics Web Content object

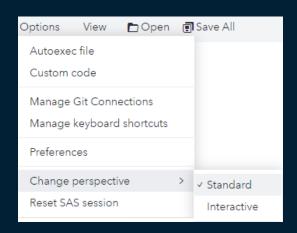


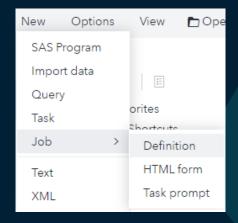
Basics of the SAS Viya Job Execution Service

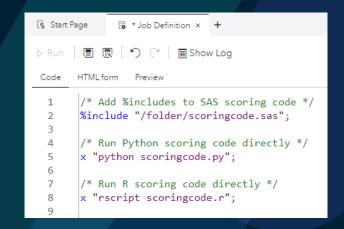
Creating Jobs and Working with Job Parameters



Creating Jobs in SAS Studio V







(1)

Ensure your perspective is in Standard mode



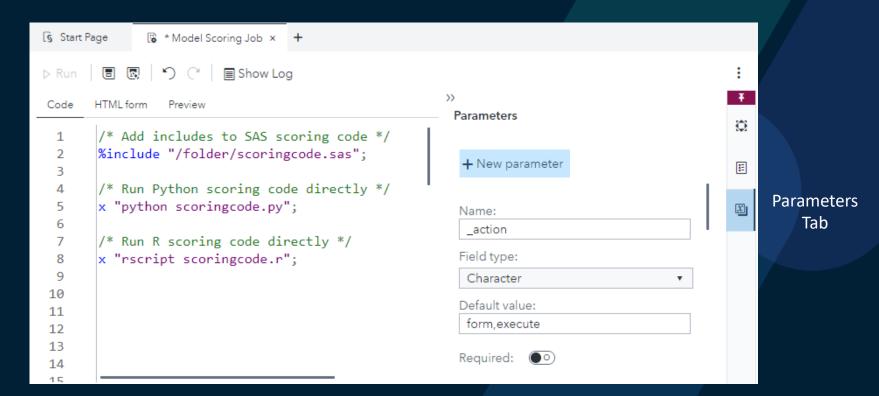
Create a new Job Definition



Add your code



Job Input Parameters





Special Job Parameters

| <u>Parameter</u> | <u>Description</u> | <u>Examples</u> |
|------------------|--|------------------------------|
| _action | What to do after accessing the job URL. Accepts multiple comma-separated values. | form,wait,execute execute |
| _output_type | Output type to display to the user, such as a webpage or ODS graphics | html ods_html5 pdf |
| _debug | Display the SAS log after the job runs | log |



Special Job Parameters: _action

Parameter Value form

Description

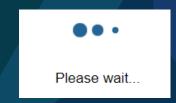
Display an input form for the user before running the job

Examples

| Enter a Pretzel Scenario | |
|--------------------------|--|
| Price (USD) 2.49 | |
| Cost (USD) 0.25 | |
| Submit | |

wait

Display an animated waiting page while the job is running



execute

Run the job after the user submits the job or accesses the URL



Let's go LIVE



Thank you

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