



SAS Enterprise Guide vs SAS Studio

Le Club des utilisateurs SAS de Québec

08 mai 2019

Sylvain Tremblay

SAS Canada

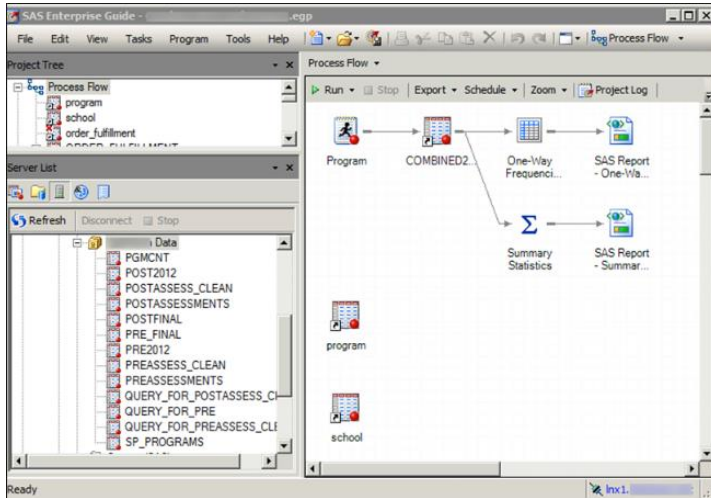
Lequel préfères tu?



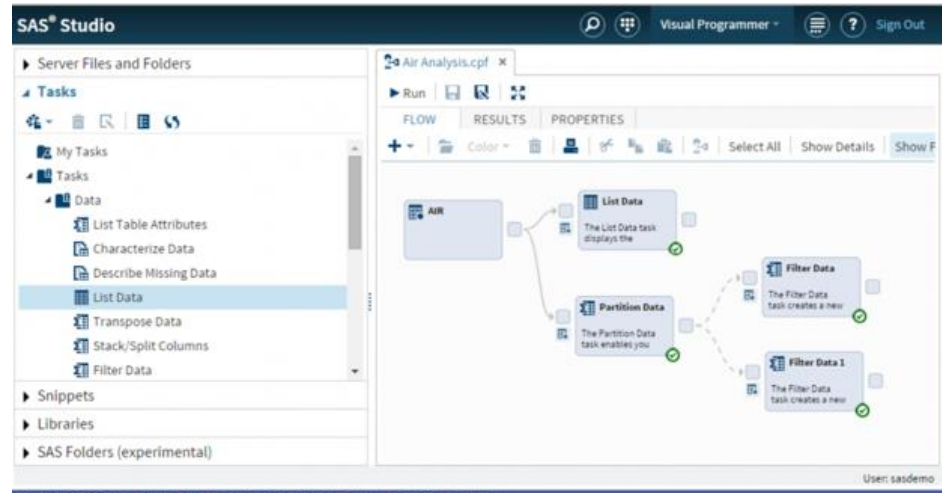
Lequel préfères tu?



SAS Enterprise Guide



SAS® Studio



Agenda



- Programmation
- Requêtes
- Flux de processus
- Tâches
- Conclusion

Base de comparaison

	Enterprise Guide	SAS Studio
Dernière version sous SAS 9.4	7.15	3.8

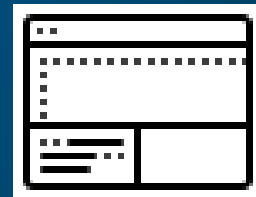
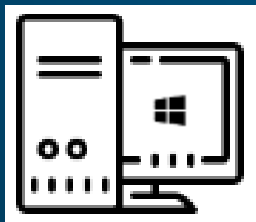
Cette présentation ne couvre pas SAS Viya

Poste Client

OS	Enterprise Guide	SAS Studio
Windows	✓	✓
Unix	✗	✓
Linux	✗	✓
macOS (Apple OS X)	✗	✓

Type de client

Enterprise Guide	SAS Studio
“Fat Client”	“Thin Client”
L’application est installé sur le PC	Application Web



Exigences du client



Enterprise Guide	SAS Studio
Microsoft Windows	Microsoft Internet Explorer 11
Microsoft Windows for x64	Mozilla Firefox 21+
Microsoft .NET Framework	Google Chrome 27+
Microsoft Windows Installer	Apple Safari 6.0+ (Apple OS X)
Microsoft Runtime Components	Fureteurs sur tablette ou mobile ne sont pas supportés

<http://support.sas.com/documentation/installcenter/en/ikeguidesr/68009/PDF/default/sreq.pdf>

<http://support.sas.com/documentation/installcenter/en/ikstudiosr/72749/PDF/default/sreq.pdf>

Exigences pour SAS

SAS	Enterprise Guide	SAS Studio
9.2	✓	✗
9.3	✓	✗
9.4	✓	✓

Comparaison sommaire

	Enterprise Guide	SAS Studio
Type de client	Fat Client	Thin Client
Application	.NET	Web
Interface	Projet	Workspace
Perspective	Code + Point&Click	Code + Point&Click
Flux de processus	Obligatoire	Optionnel
Grid SAS	✓	✓

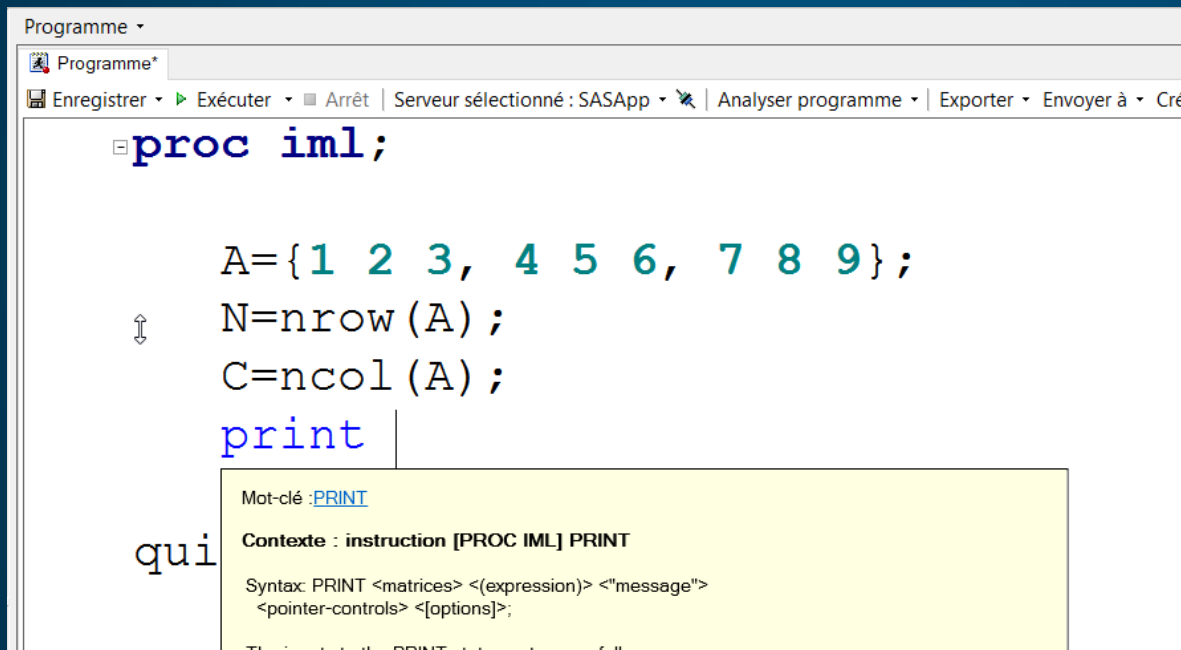
Agenda



- **Programmation**
- Requêtes
- Flux de processus
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- Conclusion

Programmation

SAS EG



The screenshot shows the SAS EG editor interface. The title bar reads "Programme". The menu bar includes "Enregistrer", "Exécuter", "Arrêt", "Serveur sélectionné : SASApp", "Analyser programme", "Exporter", "Envoyer à", and "Cré". The code editor contains the following SAS code:

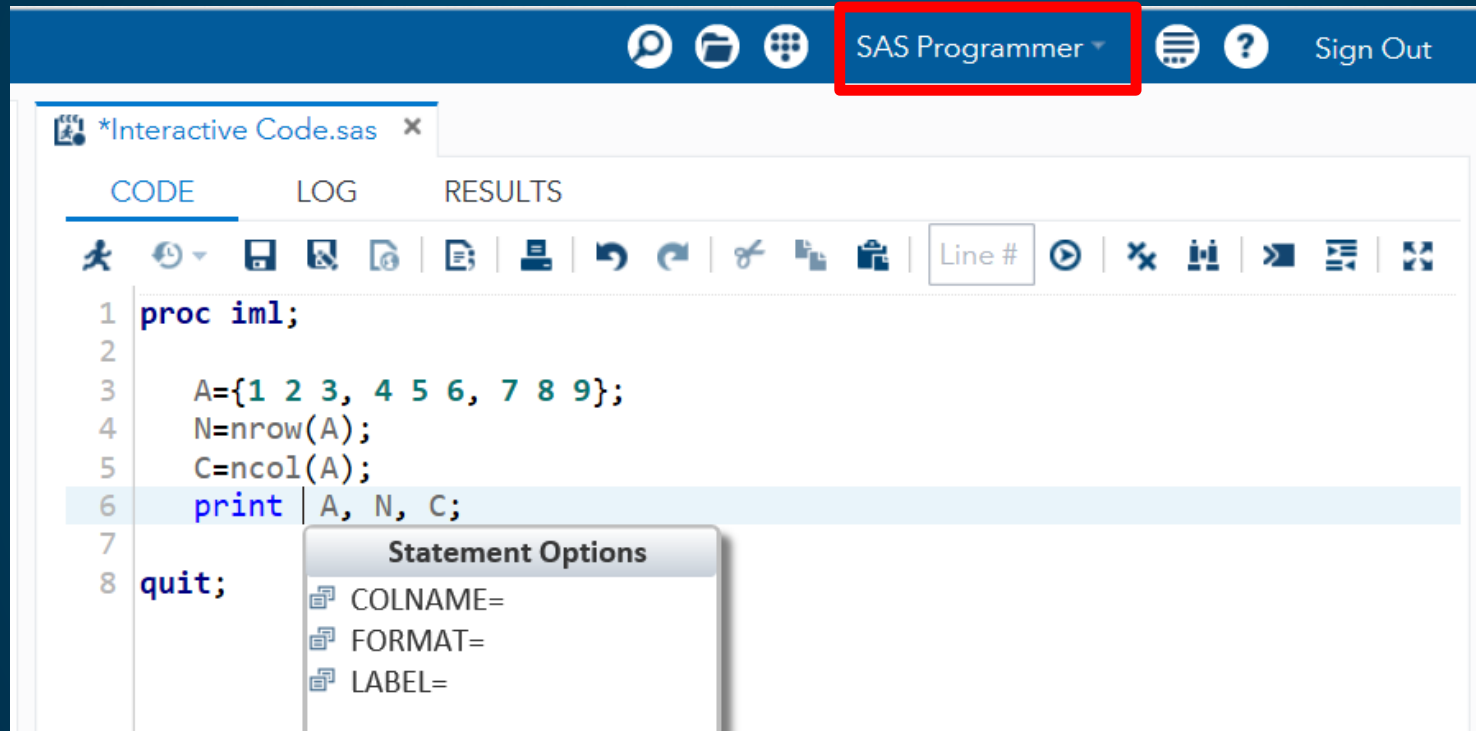
```
proc iml;  
  
    A={1 2 3, 4 5 6, 7 8 9};  
    N=nrow(A);  
    C=ncol(A);  
    print
```

A tooltip is displayed over the `print` statement, providing the following information:

- Mot-clé : [PRINT](#)
- Contexte : instruction [PROC IML] PRINT
- Syntax: PRINT <matrices> <(expression)> <"message">
 <pointer-controls> <[options]>;
- The inputs to the PRINT statement are as follows:

Programming

SAS Studio



The screenshot displays the SAS Studio web interface. At the top, a blue navigation bar contains several icons and the text "SAS Programmer" with a dropdown arrow, which is highlighted by a red rectangle. To the right of this are icons for a list, a question mark, and the text "Sign Out". Below the navigation bar, a tab labeled "*Interactive Code.sas" is active. Underneath the tab are three sub-tabs: "CODE", "LOG", and "RESULTS", with "CODE" being the selected one. A toolbar with various icons for file operations and execution is located below the sub-tabs. The main area shows SAS code being edited. Line 6, which contains the statement `print A, N, C;`, is highlighted in light blue. A context menu titled "Statement Options" is open over line 6, showing options for `COLNAME=`, `FORMAT=`, and `LABEL=`. The code editor shows the following code:

```
1 proc iml;  
2  
3     A={1 2 3, 4 5 6, 7 8 9};  
4     N=nrow(A);  
5     C=ncol(A);  
6     print A, N, C;  
7  
8 quit;
```

Programmation

	Enterprise Guide	SAS Studio
Saisie semie-automatique	✓	✓
Aide intégrée sur la syntaxe	✓	✓
Mode Interactive	✗	✓
Debugger Etape Data	✓	✗
Gestion de versions avec GIT	✓	✓
Analyser le programme	✓	✗
Sommaire du programme	✗	✓
Substitution de texte	Abbreviation	Snippet
Soumettre en background	✗	✓

Agenda



- Programmation
- Requetes
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SAS EG



Requête

SAS Studio

*Query 1 x

Settings Code/Results Split     Log Code

TABLES COLUMNS PROPERTIES

View: Column names

CLASS

- Name
- Sex
- Age
- Height
- Weight

CLASSFIT

- Name
- Sex
- Age
- Height
- Weight
- predict
- lowermean

SELECT FILTER SORT GROUP

☐ Select distinct rows only

Table	Source Column	Column Name	Summary
CLASS	Name	Student Name	
CLASS	Age	Age	
CLASSFIT	predict	predict	

CODE LOG RESULTS

Line # Edit

```
5 PROC SQL;  
6 CREATE TABLE WORK.QUERY  
7 AS  
8 SELECT CLASS.Name  
9 AS 'Student Name', CLASS.Age, CLASSFIT.predict  
10 FROM SASHELP.CLASS CLASS  
11 INNER JOIN SASHELP.CLASSFIT CLASSFIT  
12 ON
```

Requêtes

	Enterprise Guide	SAS Studio
Génération de code SQL	✓	✓
Sélection des données	✓	✓
Jointure de tables	✓	✓
Filtrer	✓	✓
Trier	✓	✓
Aggregation des données	✓	✓
Crération de colonnes calculées	✓	✗
Génération de SQL Pass-Through	✓	✗

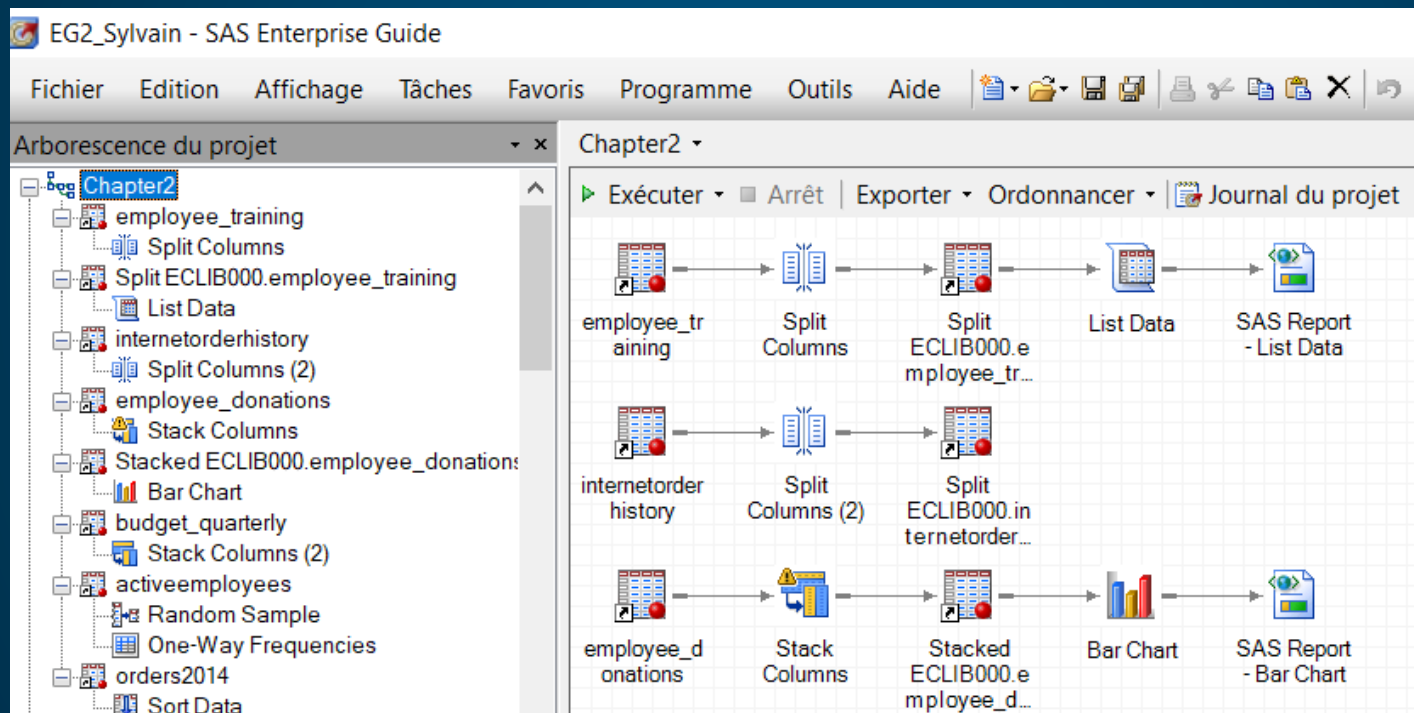
Agenda



- Programmation
- Requêtes
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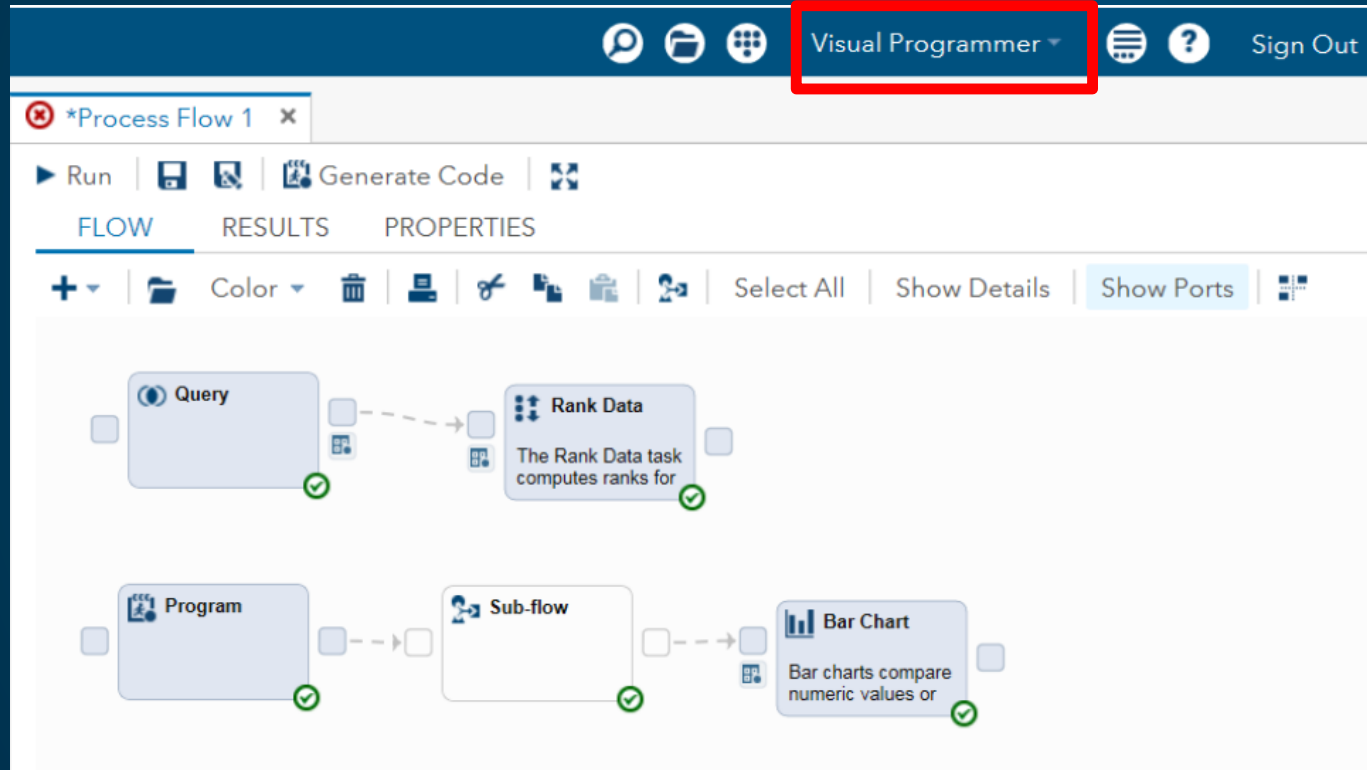
Flux de processus

SAS EG



Flux de Processus

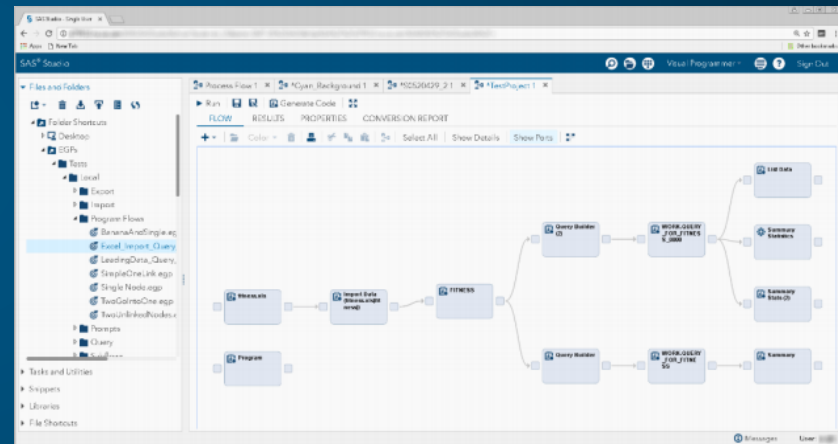
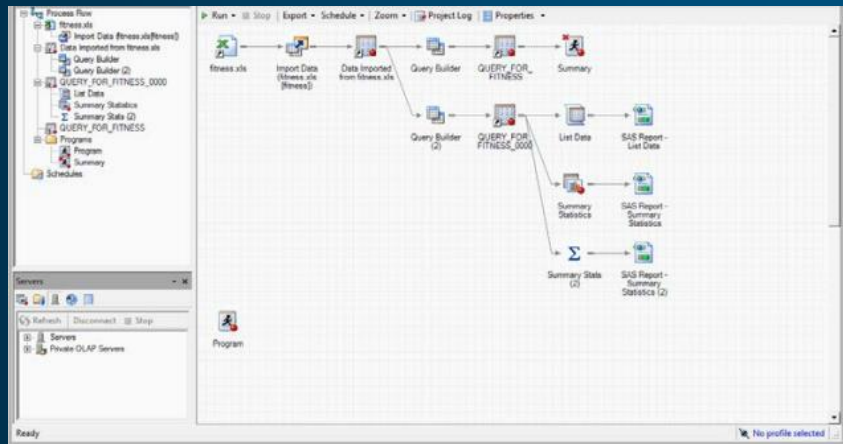
SAS Studio



Flux de Processus

	Enterprise Guide	SAS Studio
Arbre de projet	✓	✗
Sous flux ("subflow")	✗	✓
Processing conditionnel	✓	✗
Processing en parallèle	✓	✓
Ordonnancement	✓	✗

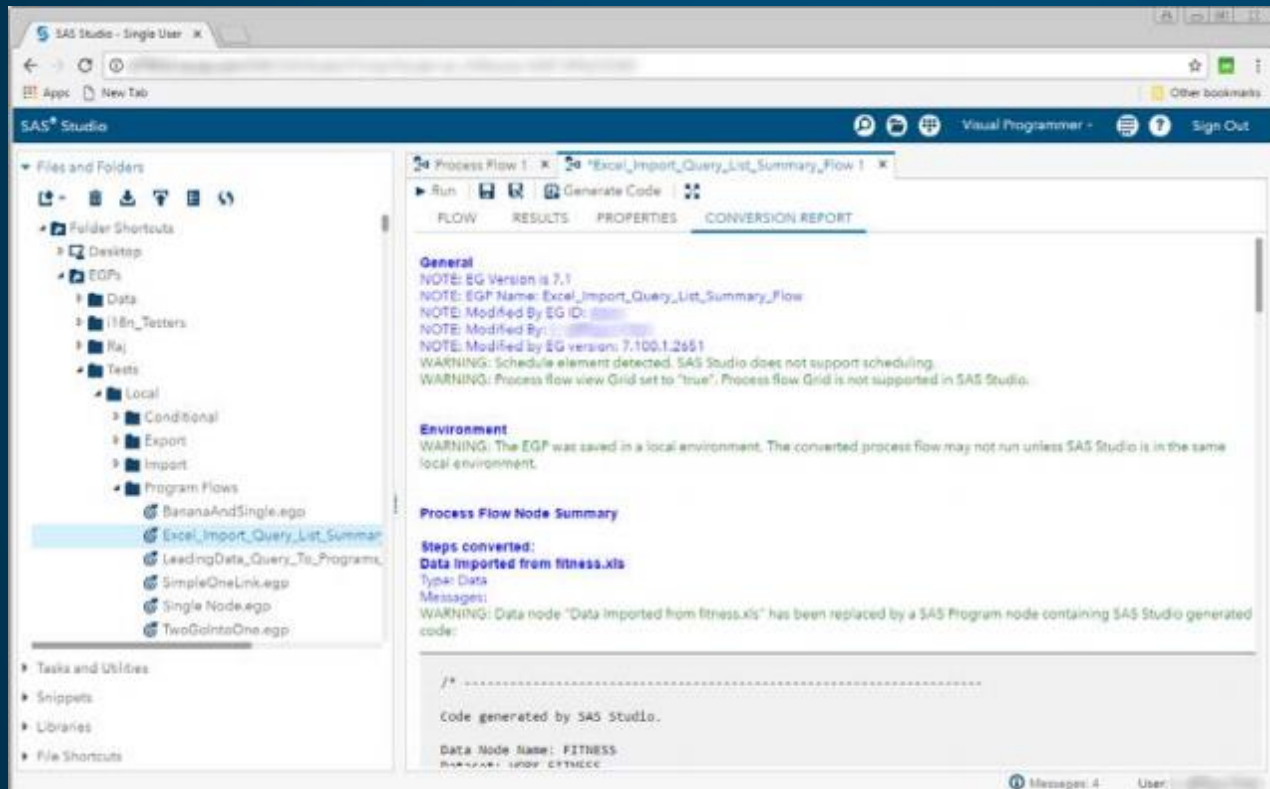
Conversion projet EG en flux SAS Studio



Using EG Projects in SAS Studio



Conversion projet EG en flux SAS Studio



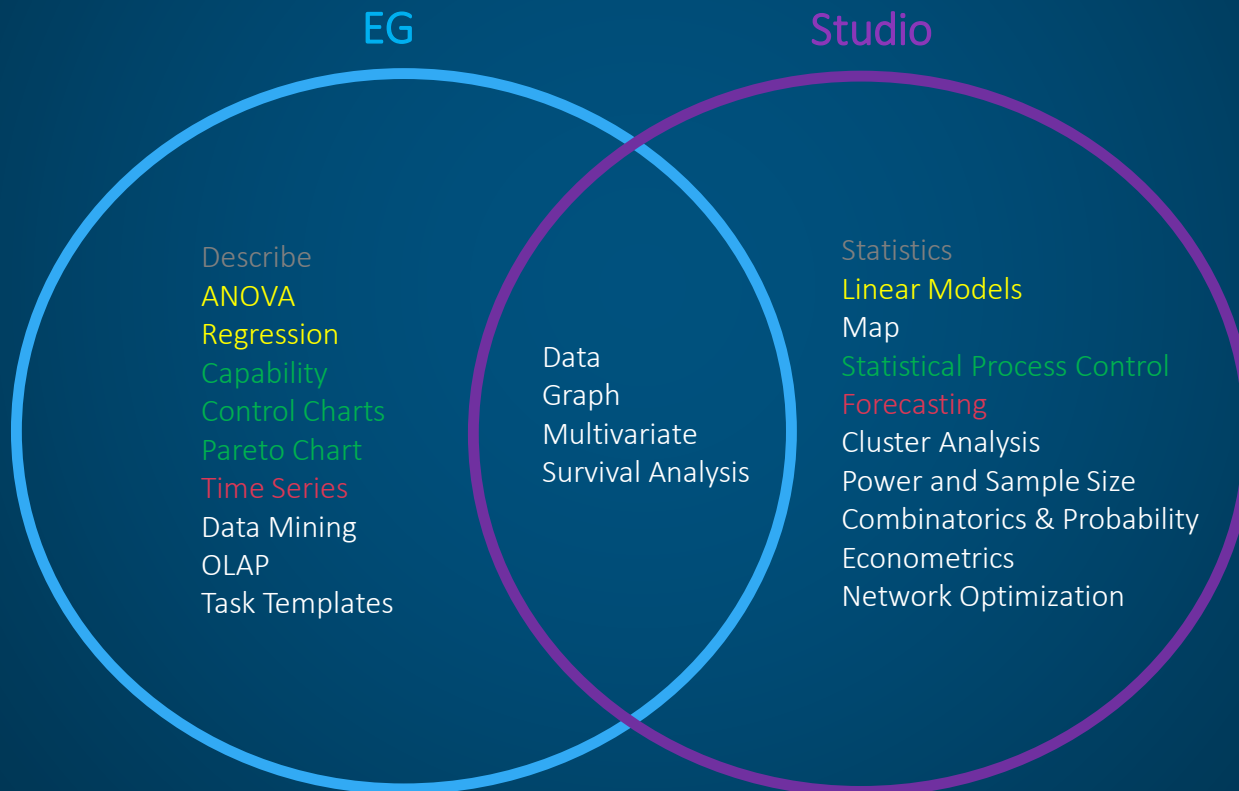
Rapport de
Conversion

Agenda



- Programmation
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- Tâches
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Catégories de tâches



Tâches

	Enterprise Guide	SAS Studio
Certaines tâches ont un assistant	✓	✗
Créer un modèle (“Task Template”)	✓	✗
Utilisation d’invites	✓	✗

Agenda

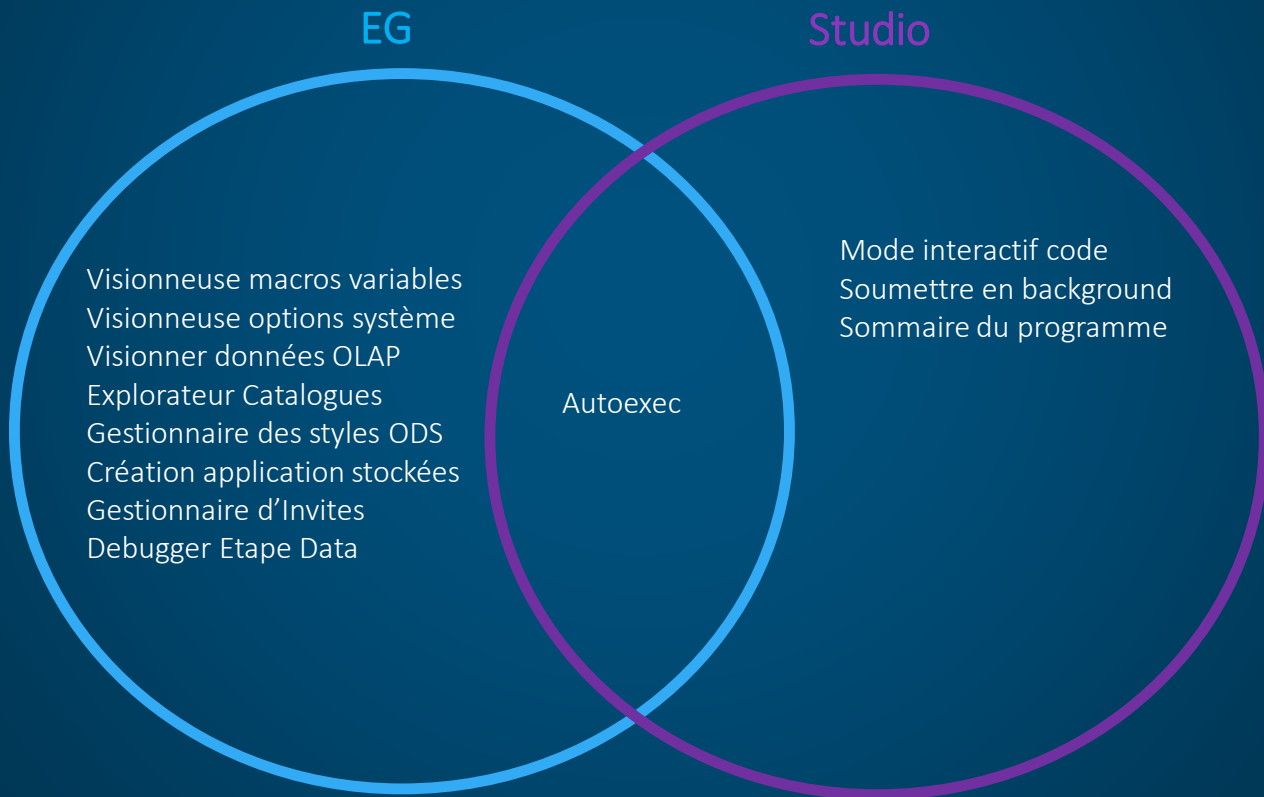


- Programming
- Queries
- Process Flow
- Tasks
- Conclusion

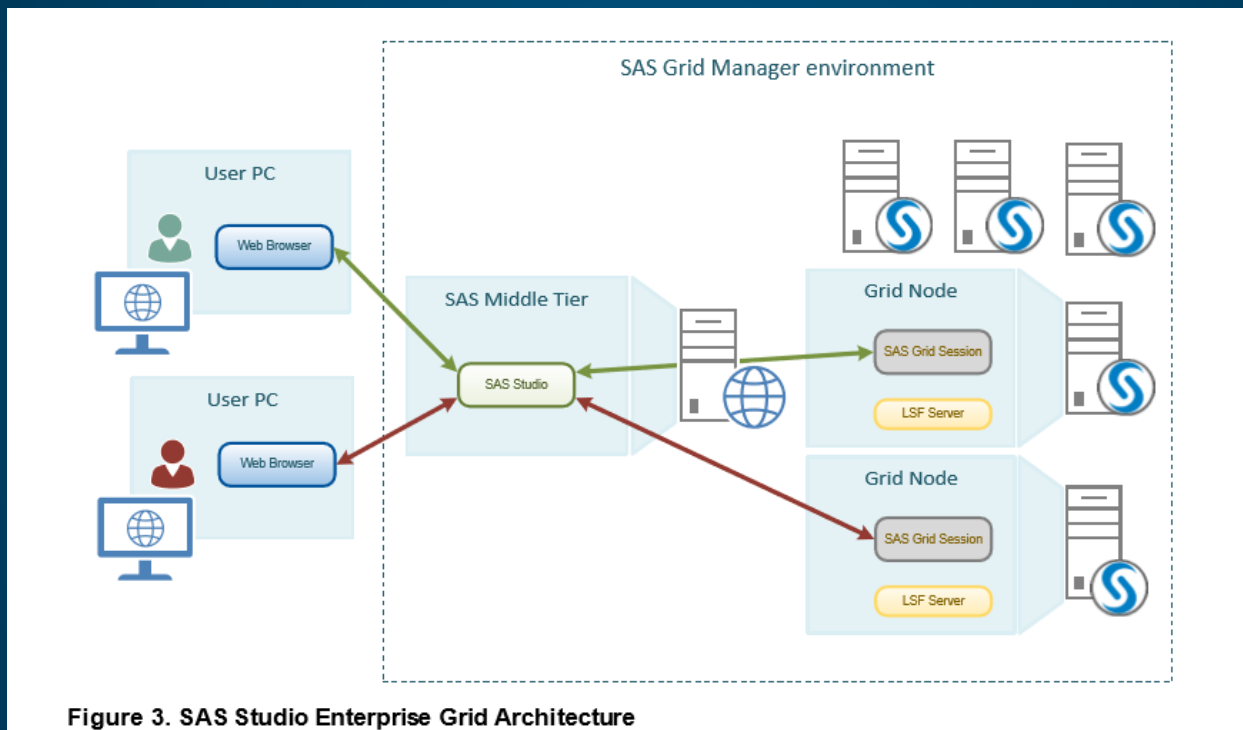
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Flux de processus	Obligatoire	Optionnel
Grid	✓	✓

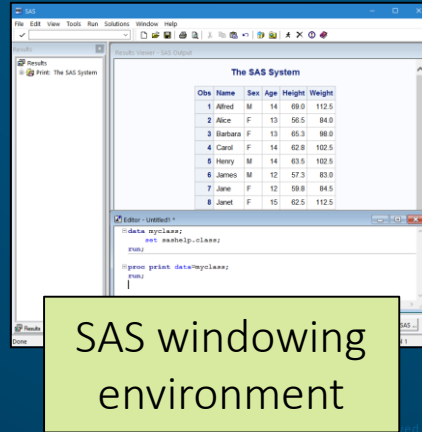
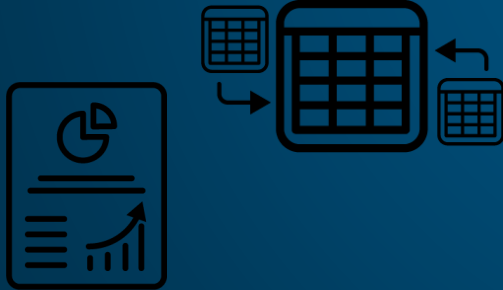
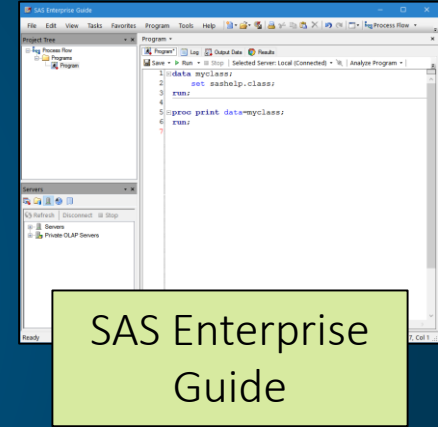
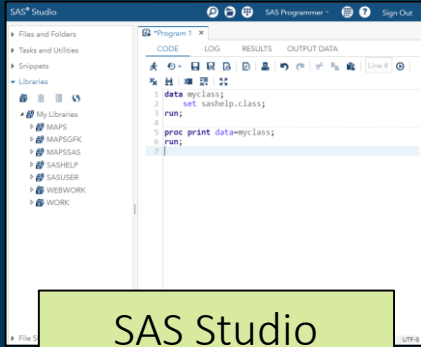
Fonctionnalités



Grid pour SAS Studio



Les utilisateurs sont les gagnants



Pour en apprendre plus

Formations
<u>SAS Enterprise Guide – Requêtes et Rapports</u>
<u>Enterprise Guide pour les programmeurs SAS expérimentés</u>
<u>Essential Data Analysis Using SAS Studio Tasks</u>
<u>Exploring SAS Studio for SAS Programmers</u>



Clic!



support.sas.com/training/canada/paths/

Merci!

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