

## NextGen Labview

**Carnet de notes :** 1.T-Inbox

**Créé le :** 08/11/2016 16:01

**Modifié le :** 18/11/2016 10:55

**Auteur :** manu

**URL :** <http://forums.ni.com/t5/NI-Software-Technology-Preview/Download-and-Install-the-Next-Generation-LabVIEW-Features-for/ta-p/3327...>

### Objectif de national Instrument :

Actuellement 0.1 // Technologie preview

Refonte du logiciel LabVIEW

Les 2 systèmes vont cohabiter pendant plusieurs années.

Possibilité d'importation de l'ancien Labview vers le nouveau de façon unilatérale (pas encore disponible)

Version actuelle orienté DAQ (un peu similaire signal express)

### Installation :

#### System Requirements

- 64-bit version of Windows 10/8.11/7 SP12
- .NET Framework 4.6.1
- 4 GB of RAM
- 18 GB of available hard disk space<sup>3</sup>
- An Oracle virtual box (optional ;-)

S'inscrire sur le forum via cette adresse : <http://forums.ni.com/t5/NI-Software-Technology-Preview/Download-and-Install-the-Next-Generation-LabVIEW-Features-for/ta-p/3327753>

Attendre la notification de la part de Ni

Retourner sur le site et Installer en suivant la procedure :



#### Activating

1. When you start Next Generation LabVIEW Features Technology Preview for the first time, a dialog appears displaying the License Status. Click Activate Products and follow the prompts.
2. When prompted for a serial number, enter L12V86801.
3. After activation finishes, the dialog displaying the License Status appears again. Click Continue Trial.

Installation directe en 45 min. (dépend connexion / puissance station)

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suivi de Indicateurs / controleur entre FP / diagramme

Tres bonne intégration de NI Max

Import des instruments

Définition de type remplacé par Gobject

Installeur très bien fait

Zoom ?

Outils d'Interface avec les autres langages (dll / c / math)

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Plus de Property node // ref // variable globale // CTL ?

Très peu d'exemples

Pas de compilateur actuellemnt

Pas de modules // outils de génie logiciel

Beaucoup de crash

Pas de VIPM

Zoom ?

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**Conclusions** (cela n'engage que moi + la période de test était courte)

Version peu finalisé, encore beaucoup de chemin a faire.

L'interface Visual studio "like" n'est pas optimisée.

L'installeur est vraiment optimisé, les instruments sont très facilement.

Pour moi et pour l'instant c'est une sorte de signal express optimisé.


# HARDWARE

Discover local hardware devices and register remote hardware targets.


## CONNECTED HARDWARE


## Integration du hardware de Ni MAX

### manu-PC


 manu-PC  
Model: HP EliteBook 840...  
Configure


### cDAQ1

 C1\_DI  
Model: NI 9482  
Configure

 cDAQ1  
Model: NI cDAQ-9174  
Configure

 cDAQ1Mod2  
Model: NI 9230  
Configure

 cDAQ1Mod3  
Model: NI 9426  
Configure

 cDAQ1Mod4  
Model: NI 9475  
Configure

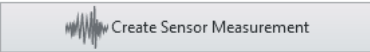
Can't f  
Add  
Cre  
Lau  
  
Still ca  
If yc  
On  
  
Missing  
Lau



**Identity**

Hardware Name cDAQ1Mod2  
Slot # 2  
Vendor National Instruments  
Model NI 9230  
Serial #

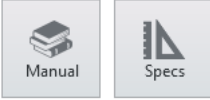
**Verify Hardware**

 Create Sensor Measurement

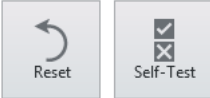
\*Create Measurement Panel will create a new project

**Accessory**  
Connector0 None

**Documentation**



**Troubleshooting**



**Advanced**



**Create measurement sensor automatically**

The screenshot shows a software interface for sensor measurement. The main window displays a graph of a signal over time, with a red arrow pointing to the 'Record' button and the text 'Record' in red. The graph shows a signal that starts at approximately -30V and rises to about 30V. The x-axis is labeled with 07,6654 and 12,6654. The y-axis is labeled with 30, 25, 20, 15, 10, 5, 0, -5, -10, -15, -20, -25, -30. The signal is labeled 'Signal express Like!' in red. A red heart icon is also present. The interface includes a 'Database' label with an arrow pointing to the top-left menu, and a 'Sensor 0' configuration panel on the right. The configuration panel shows settings for Name (Sensor 0), Sensor Type (Voltage), Channel (cDAQ1Mod2/ai0), Unit (Volt (V)), Minimum (-30), Maximum (30), Source (None), Coupling (AC), and Terminal Config (Default (Pseudodiff.)). The bottom panel shows a 'Create New Sensor' button and a 'Sensor 0' card displaying a reading of 28,604 V, Voltage, cDAQ1Mod2/ai0.

Database

Record

Signal express Like!



Sensor 0  
28,604  
V  
Voltage  
cDAQ1Mod2/ai0

WELCOME PROJECTS HARDWARE **LEARNING**

# LEARNING

Learn to program by exploring lessons and examples.

TUTORIALS | **EXAMPLES**

**Very basic example**

Search Examples

### Programming Basics

Learn the basics of how to program in LabVIEW.

### Math

Learn how to perform mathematical operations.

### Signals and Systems

Learn how to perform signal generation, analysis, and conditioning.

### Text-based Languages

Learn how to integrate text-based languages into LabVIEW.

### Instrument Driver Examples

Examples for National Instruments PnP Drivers.

Examples > Text-based Languages **A lot of Text based language** Search Examples

### C Node Fundamentals

Demonstrates how to use the C Node.

### MathScript Fundamentals

Demonstrates how to use a script in the MathScript Node.

### MathScript User Defined Function

Adjusts the amplitude and offset of a sinusoidal signal using a MathScript Node and a user-defined function.

### MathScript Working with nD Arrays

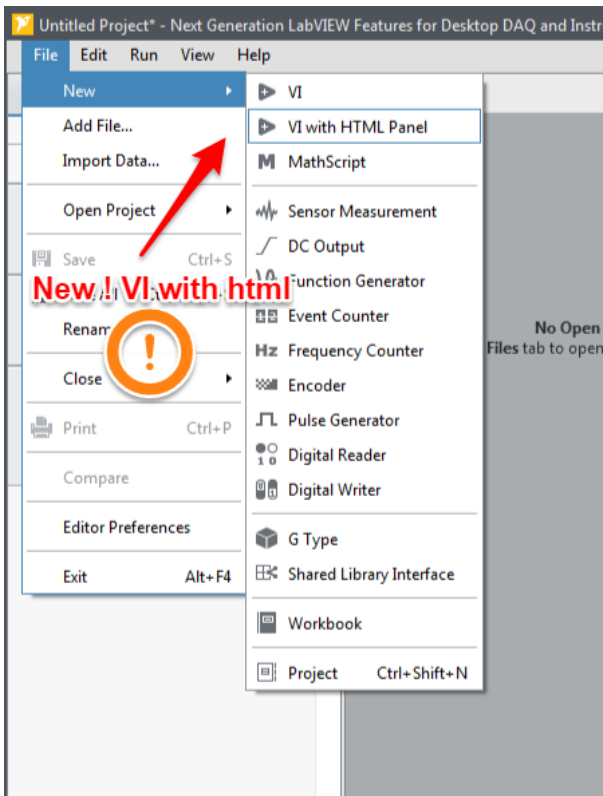
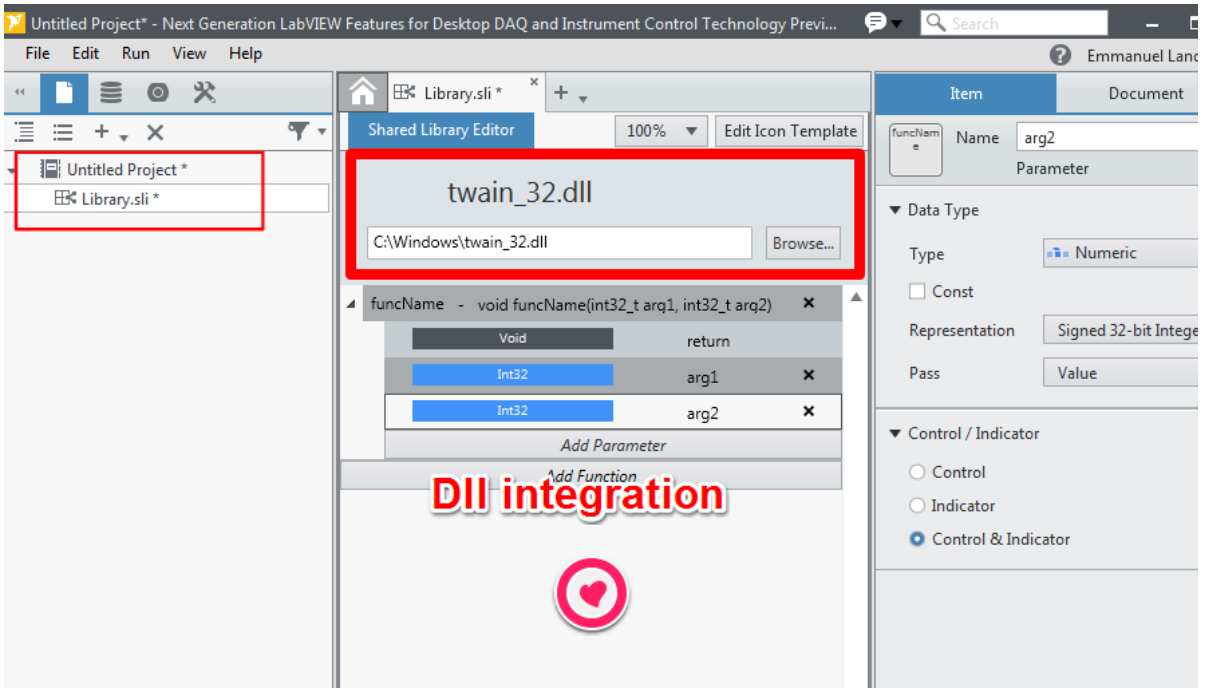
Demonstrates how to create, check size, and index multidimensional (nD) arrays in the MathScript Node for...

### MathScript Monte Carlo Calculation

Demonstrates the use of the MathScript Node to calculate an approximate value of Pi using the...

### Prime Number Calculation

Demonstrates how to calculate prime numbers in C, M, and G languages.



File Edit Run Data View Help

Simple Queue.gvi

Panel Diagram Split

Simple Queue.lvproject \*  
Simple Queue.gvi

### Simple Queue

See the diagram for more information

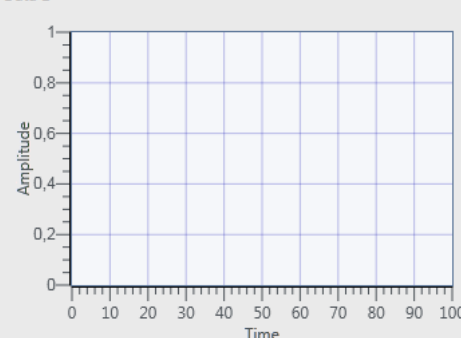
#### Overview

Demonstrates the use of the Queue functions to pass data between parallel loops.

#### Instructions

**Panel** **Diagram**

Data 1

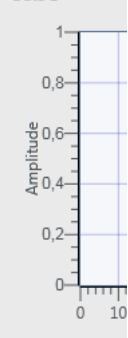


Amplitude

Time

Plot

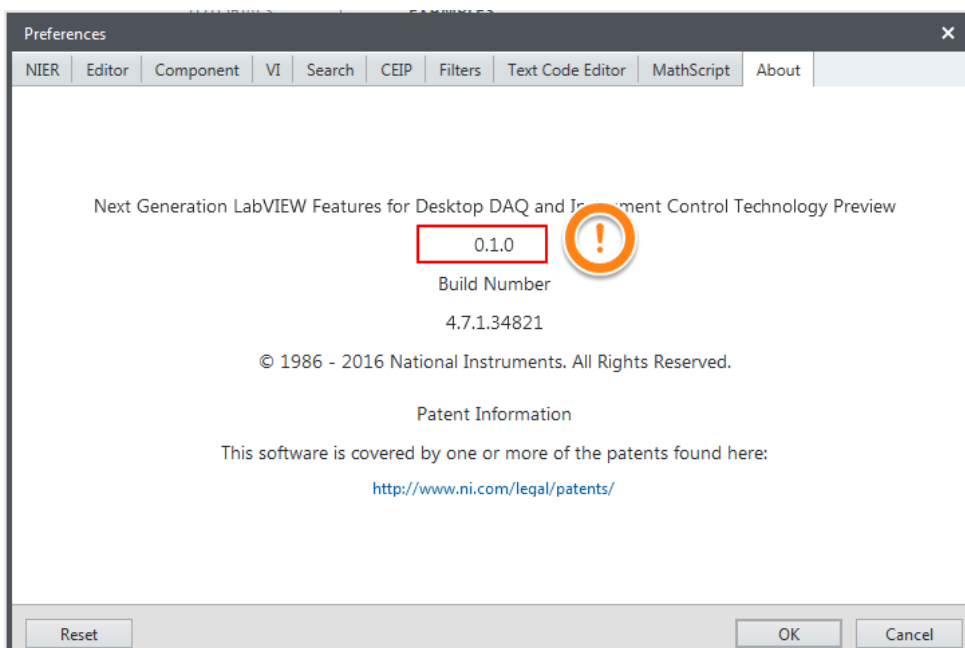
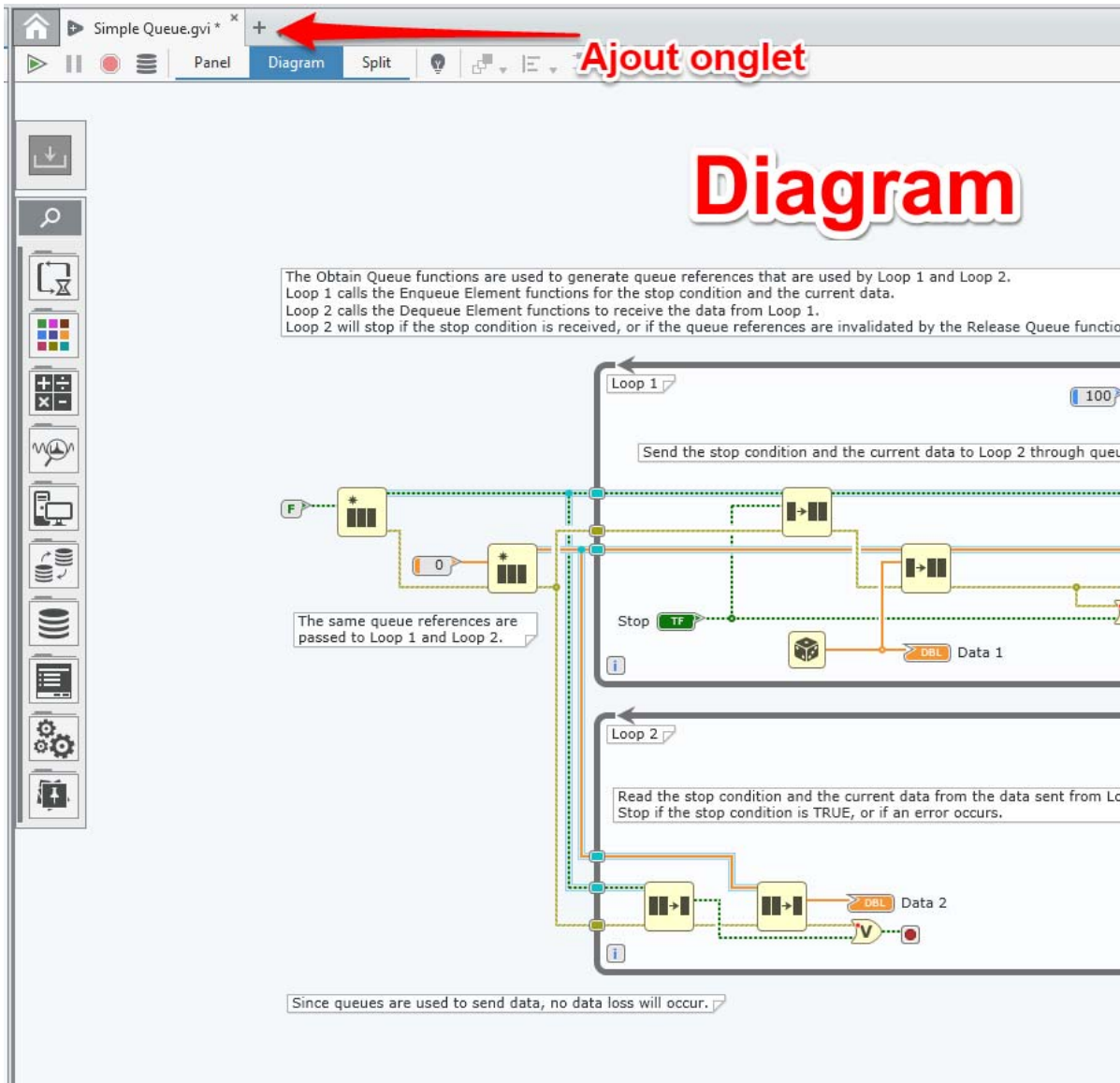
Data 2



Amplitude

Time

The data generated by Loop 1 on the diagram is passed to Loop 2 through a queue. The stop condition is also monitored in Loop 1 and sent to Loop 2 in a queue.





# LEARNING

Learn to program by exploring lessons and examples.



TUTORIALS

EXAMPLES

# Connexion

## Programming Basics

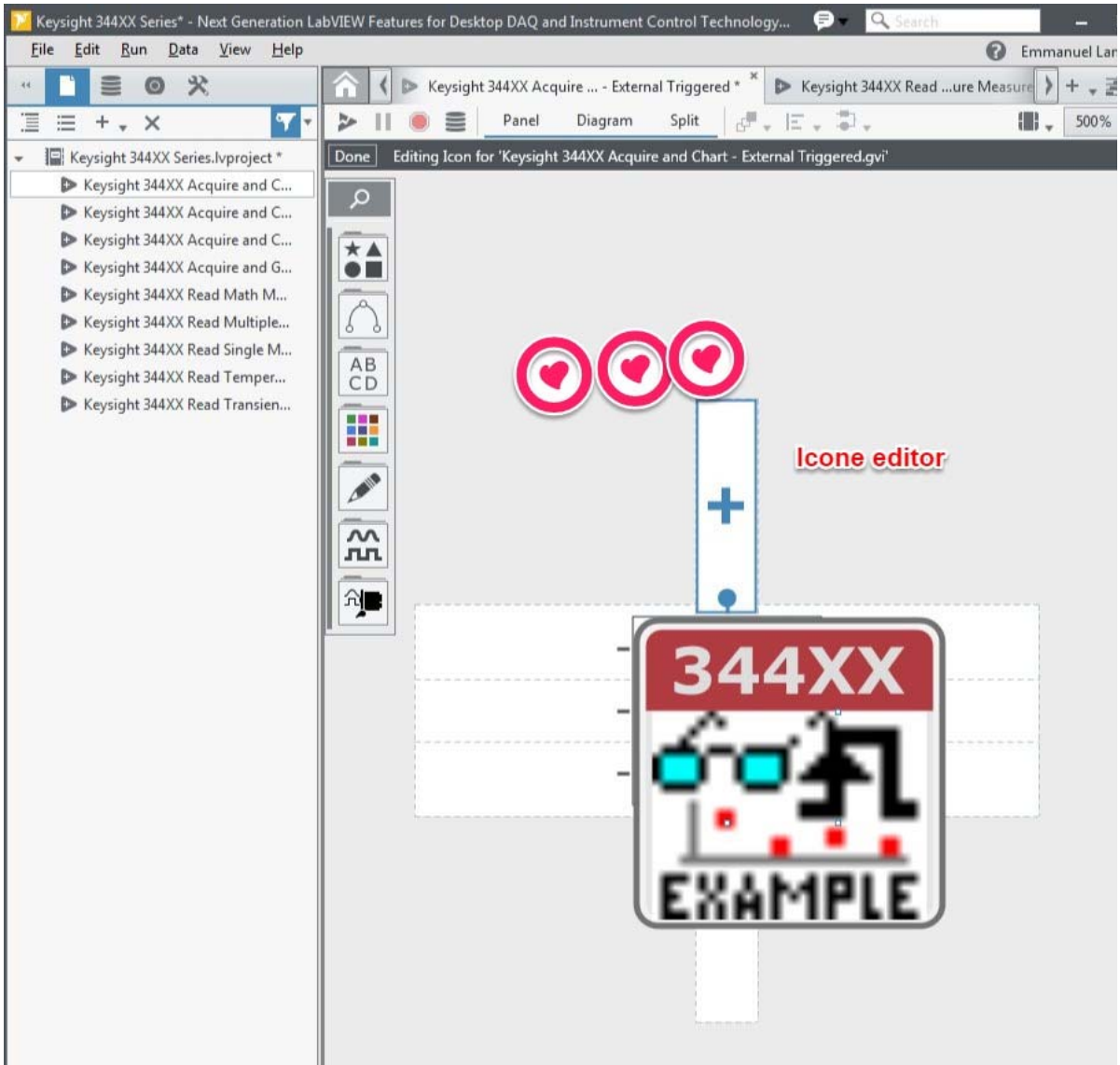
Learn the basics of how to program in LabVIEW.

## Math

Learn how to perform mathematical operations.

## Signals and Systems

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Requirement :


NI Package Manager

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Programming Environments  
Instrument Drivers  
NI Drivers


### Programming Environments



**NI Next Generation LabVIEW Features for Desktop DAQ and Instrument Control Technology Preview**  
NI

Read more

The Next Generation LabVIEW Features Technology Preview build contains software capabilities designed for the automation of benchtop measurements from...



NI Package Manager


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Programming Environments  
Instrument Drivers  
NI Drivers

### NI Next Generation LabVIEW Features for Desktop DAQ and Instrument Control

Programming Environments



NI  
Price: Free Evaluation  
The Next Generation LabVIEW Features Technology Preview build contains software capabilities designed for the automation of benchtop measurements from NI DAQ HW and 3rd party benchtop instruments.

0.1.0

GET

Overview | Release Notes | Support | Other Versions

This Programming Environment is part of the NI Software Technology Preview. Demonstrable capabilities are limited to desktop UI creation, automation via graphical programming, interactive data analytics, an integrated MDI, and integrated learning and help content systems.

