

The Auditory Modeling Toolbox **Workshop**

Vienna, 2nd February 2022

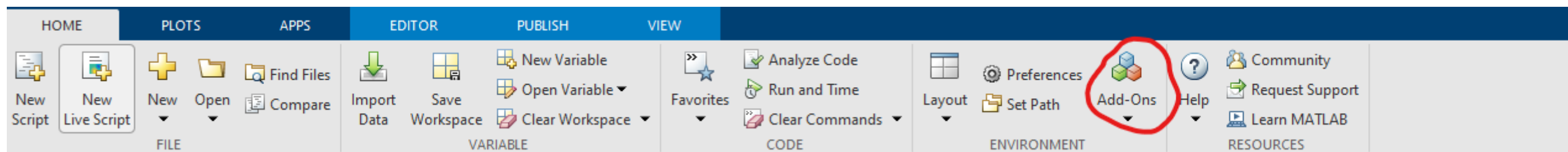


Make gcc available to MATLAB 1/2

```
$"paket_manager install" gcc
```

Matlab (> 2017):

=> you need a MathWorks account



Make gcc available to MATLAB 2/2

Add-On Explorer

Contribute | Manage Add-Ons

R2021b now available

mingw

17 RESULTS

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Installed



MATLAB Support for MinGW-w64 C/C++ Compiler by MathWorks Supported Compilers Team **STAFF**

Install the MinGW-w64 C/C++ compiler for Windows

questions.https://www.mathworks.com/matlabcentral/answers/311290-faq-how-do-i-install-the-mingw-compiler#answer_242526?s_tid=prof_contriblnkThis Add-On installs one of the following versions of **MinGW** GCC based on your version of MATLAB:MATLAB version_____MinGW version__For more informationR2015b through R2017a___GCC

MathWorks Optional Feature

644.9K Downloads Updated 22 Sep 2021

```

Command Window
>> mex -setup
MEX configured to use 'MinGW64 Compiler (C)' for C language compilation.

To choose a different language, select one from the following:
  mex -setup C++
  mex -setup FORTRAN
fx >>
    
```

Install Python 1/3

← → ↻ <https://www.python.org/downloads/windows/>

Python Releases for Windows

- [Latest Python 3 Release - Python 3.10.2](#)
- [Latest Python 2 Release - Python 2.7.18](#)

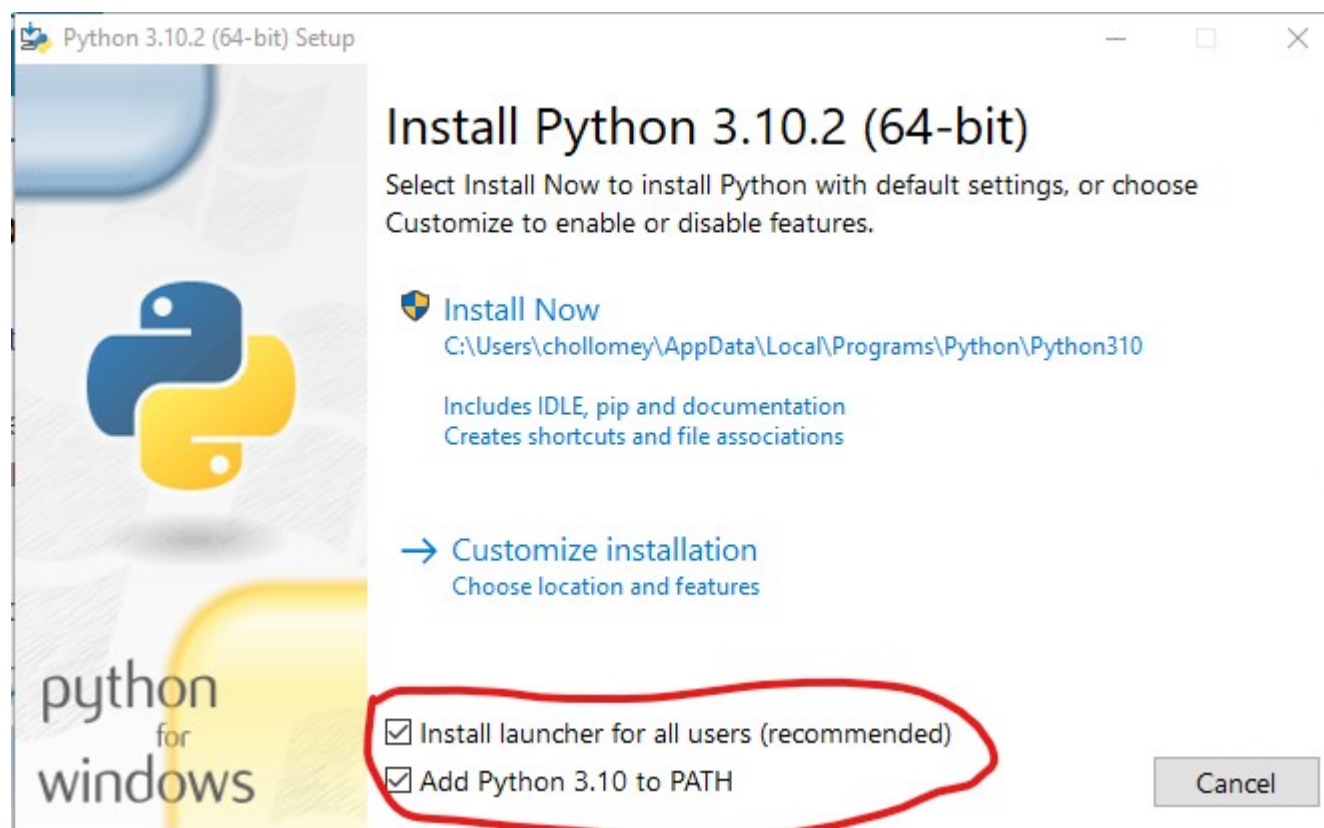
Stable Releases

- [Python 3.9.10 - Jan. 14, 2022](#)
Note that Python 3.9.10 cannot be used on Windows 7 or earlier.
 - No files for this release.
- [Python 3.10.2 - Jan. 14, 2022](#)
Note that Python 3.10.2 cannot be used on Windows 7 or earlier.
 - Download [Windows embeddable package \(32-bit\)](#)
 - Download [Windows embeddable package \(64-bit\)](#)
 - Download [Windows help file](#)
 - Download [Windows installer \(32-bit\)](#)
 - Download [Windows installer \(64-bit\)](#)
- [Python 3.10.1 - Dec. 6, 2021](#)

Pre-releases

- [Python 3.11.0a4 - Jan. 14, 2022](#)
 - Download [Windows embeddable package \(32-bit\)](#)
 - Download [Windows embeddable package \(64-bit\)](#)
 - Download [Windows help file](#)
 - Download [Windows installer \(32-bit\)](#)
 - Download [Windows installer \(64-bit\)](#)
- [Python 3.11.0a3 - Dec. 8, 2021](#)
 - Download [Windows embeddable package \(32-bit\)](#)
 - Download [Windows embeddable package \(64-bit\)](#)
 - Download [Windows help file](#)
 - Download [Windows installer \(32-bit\)](#)
 - Download [Windows installer \(64-bit\)](#)

Install Python 2/3



Install Python 3/3

```
Command Prompt

C:\Users\chollomey>python -V
Python 3.10.2

C:\Users\chollomey>pip -V
pip 21.2.4 from C:\Users\chollomey\AppData\Local\Programs\Python\Python310\lib\site-packages\pip (python 3.10)

C:\Users\chollomey>pip install numpy
Collecting numpy
  Downloading numpy-1.22.1-cp310-cp310-win_amd64.whl (14.7 MB)
    | 14.7 MB 3.3 MB/s
Installing collected packages: numpy
Successfully installed numpy-1.22.1
WARNING: You are using pip version 21.2.4; however, version 21.3.1 is available.
You should consider upgrading via the 'C:\Users\chollomey\AppData\Local\Programs\Python\Python310\python.exe -m pip inst
all --upgrade pip' command.

C:\Users\chollomey>pip install scipy
Collecting scipy
  Downloading scipy-1.7.3-cp310-cp310-win_amd64.whl (34.3 MB)
    | 34.3 MB 6.4 MB/s
Requirement already satisfied: numpy<1.23.0,>=1.16.5 in c:\users\chollomey\appdata\local\programs\python\python310\lib\s
ite-packages (from scipy) (1.22.1)
Installing collected packages: scipy
Successfully installed scipy-1.7.3
WARNING: You are using pip version 21.2.4; however, version 21.3.1 is available.
You should consider upgrading via the 'C:\Users\chollomey\AppData\Local\Programs\Python\Python310\python.exe -m pip inst
all --upgrade pip' command.

C:\Users\chollomey>
```

Add program to \$PATH (Windows)

Run

Type the name of a program, folder, or resource, and Windows will open

Open:

System Properties

Computer Name | Hardware | **Advanced** | System Protection | Remote

You must be logged on as an Administrator to make most of these changes.

Performance
Visual effects, processor scheduling, memory usage, and virtual memory

User Profiles
Desktop settings related to your sign-in

Startup and Recovery
System startup, system failure, and debugging information

Environment Variables

User variables for chollomey

Variable	Value
ChocolateyLastPathUpdate	132813730961968321
OneDrive	C:\Users\chollomey\OneDrive
Path	C:\Users\chollomey\AppData\Local\Programs\Python\Python310\...
TEMP	C:\Users\chollomey\AppData\Local\Temp
TMP	C:\Users\chollomey\AppData\Local\Temp

System variables

Variable	Value
ChocolateyInstall	C:\ProgramData\chocolatey
ComSpec	C:\Windows\system32\cmd.exe
DriverData	C:\Windows\System32\Drivers\DriverData
NUMBER_OF_PROCESSORS	16
OS	Windows_NT
Path	C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC

Clone the repository

Website: <https://sourceforge.net/p/amtoolbox/code/ci/master/tree/>

Cloning the repository:

Git command

Repository URL

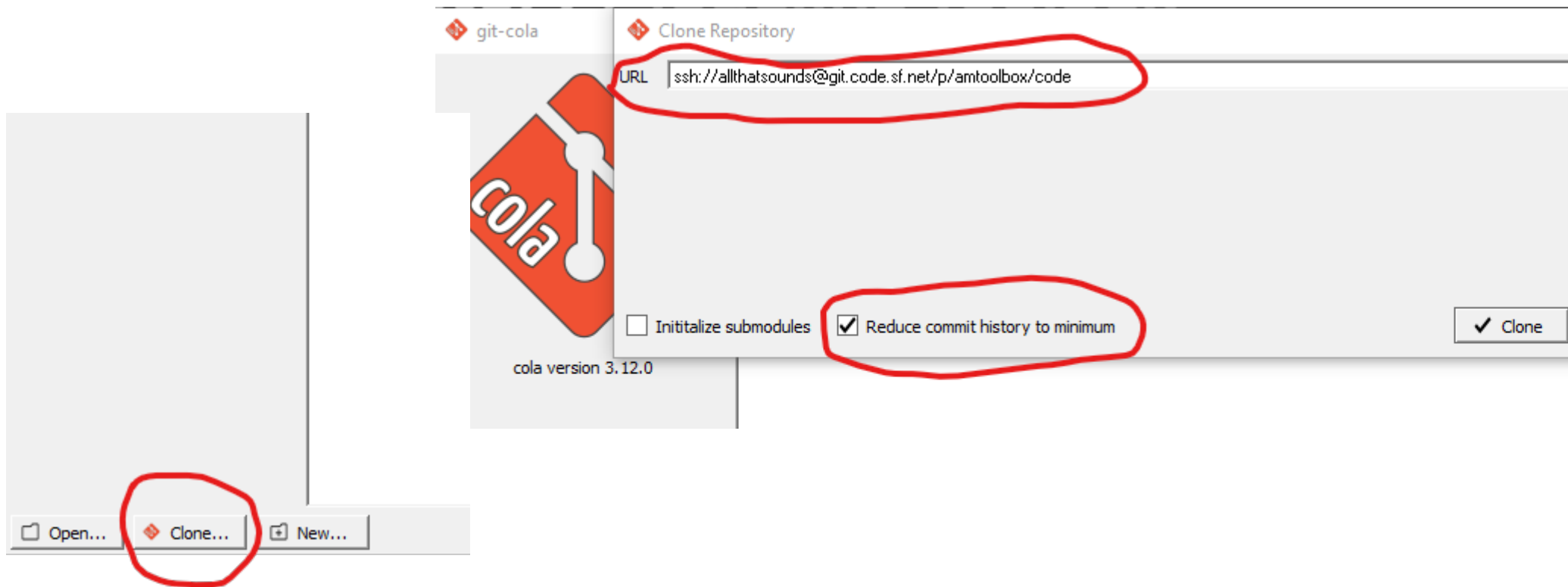
```
git clone https://git.code.sf.net/p/amtoolbox/code  
amt_code --depth 1 -b workshop
```

Name of folder
to clone into

Clone the most
Recent state only

Name of branch -
clone branch "workshop" only

Clone the repository - git cola



Clone the repository - TortoiseGit

Git clone - TortoiseGit

Clone Existing Repository

URL:

Directory:

Depth Recursive Clone into Bare Repo No Checkout

Branch Origin Name LFS

Load Putty Key

From SVN Repository

From SVN Repository

Trunk: Tags: Branch:

From: Username: