

Homework instructions

Three homework tasks will be used in candidate selection process for PSIML2016. Two tasks (Histogram and Bigrams) are designed to check how well you can handle technical problems related to test/training set generation and file parsing, while the third task (TicTacToe) will help us check your approach to previously unseen problems. We expect that a typical candidate invited to PSIML summer school should get some points on each of the 3 tasks. The tasks will be graded automatically using our private set of test samples, which will become publically available after the selection process is done. **We will not have time to debug your code and/or its interfacing with the automation system so please respect the instructions given in this manual and task assignments.**

Should we discover (with your help or by ourselves) inconsistencies in task formulation, we will update the them and post the announcement on <http://psiml.petnica.rs>

Supported platforms/languages

	Source deliverables	Bin deliverables
C++ using Visual Studio Community edition	Visual Studio solution folder	Windows .exe in a stand-alone folder containing necessary libraries (if any)
C# using Visual Studio Community edition	Visual Studio solution folder	Windows .exe in a stand-alone folder containing necessary libraries (if any)
Java	Eclipse project	JAR package
Python + Anaconda	.py script	N/A
Octave 4.0.2	.m file	N/A

Feel free to use OpenCV for solving problems. Here are the instructions for setting up OpenCV for Visual Studio [C++](#), [Java](#) and [Python](#). If you really, really have to use C#, you can use [Emgu](#). Under Octave, you can just use the Image package (pkg load image)

We will not consider your solution in binary form unless you provide the source code.

Packaging format

Each of your tasks will be packed in its own folder (named Histogram, Bigrams and TicTacToe). Each of those folders will contain two sub-folders: Src and Bin, where you should put the required sources/binaries (in case of Python and Octave the Bin should be left empty). The 3 task folders should be packed into one parent folder, named after the Unique Homework ID you obtained in the invitation e-mail (including leading zeros if any). The folder should be packed into .zip file named using the same scheme. You will then upload the .zip archive onto some file-sharing service (we suggest OneDrive) and send us the link via Survey form we asked you to complete in the invitation e-mail. Please make sure that your file-sharing service of choice does not require authentication, permissions, CAPTCHA codes etc. (OneDrive doesn't)

The example folder structure should therefore look like:

```
00555.zip
---->00555
----->Bigrams
----->Src
----->Bin
----->Histogram
----->Src
----->Bin
----->TicTacToe
----->Src
----->Bin
```

[Document update history](#)

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