

LabPics Dataset:

General:

The dataset contains annotated images of materials phases (liquid/solid /foam/Powder/). Vessels (glassware) and vessel parts(label cork)... Most of the images correspond to a chemistry lab setting. Each image is annotated in both instances and semantic maps The Dataset as two versions: **simple** and **complex**. The **Simple** folder contains a basic version of the data with less information but easy to use format. The **complex** folder contains more detail annotation but in a harder to use format.

In addition evaluation scripts in python-format are supplied in the **EvaluationScriptsPython** folder.

See the **readme** file in each of these folders for more details.

Copyright/Image sources

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We like to thank the sources of the images used for creating this dataset without them this work was not possible. These sources include Nessa Carson (@[SuperScienceGrl](#) Twitter), [Chemical and Engineering Science chemistry in pictures](#), YouTube channels dedicated to chemistry experiments: [NurdRage](#), [NileRed](#), [Doug's Lab](#), [ChemPlayer](#), and [Koen2All](#). Additional sources for images include Instagram channels [chemistrylover](#) (Joana Kulizic), [Chemistry.shz](#) (Dr.Shakerizadeh-shirazi), [MinistryOfChemistry](#), [Chemistry And Me](#), [ChemistryLifeStyle](#), [vacuum distillation](#), and [Organic Chemistry Lab](#). We are grateful to the Defense Advanced Research Projects Agency (DARPA) for funding this project under award number W911NF-18-2-0036 from the Molecular Informatics program. A.A.-G. Thanks Anders G. Frøseth for his generous support

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