**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.

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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](https://twitter.com/SuperScienceGrl?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor) Twitter), [*Chemical and Engineering Science chemistry in pictures*](https://cen.acs.org/sections/chemistry-in-pictures.html)*,* YouTube channels dedicated to chemistry experiments: [*NurdRage*](https://www.youtube.com/channel/UCIgKGGJkt1MrNmhq3vRibYA)*,* [*NileRed*](https://www.youtube.com/user/TheRedNile)*,* [*DougsLab*](https://www.youtube.com/user/DougsLab), [*ChemPlayer*](https://www.youtube.com/channel/UCsJHe4uMbquncMpe1PiLa2A/videos)*, and* [*Koen2All*](https://www.youtube.com/user/koen2all)*.* Additional sources for images include Instagram channels [chemistrylover\_](https://www.instagram.com/chemistrylover_/)(Joana Kulizic),[*Chemistry.shz*](https://www.instagram.com/chemistry.shz/?hl=en)(Dr.Shakerizadeh-shirazi)*,* [*MinistryOfChemistry*](https://www.instagram.com/ministryofchemistry/?hl=en)*,* [*Chemistry And Me*](https://www.instagram.com/chemistryandme/?hl=en)*,* [*ChemistryLifeStyle*](https://www.instagram.com/explore/tags/chemistrylifestyle/?hl=en)*,* [*vacuum\_distillation*](https://www.instagram.com/explore/tags/vacuumdistillation/?hl=en)*, and* [*Organic\_Chemistry\_Lab*](https://docs.google.com/document/d/16QkXuIesB80gDONX-YVNFP4C6Mmj-14ZDrTmLrnNfms/edit#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

**C&EN's Chemistry in Pictures**

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