IDEAS, RESOURCES, KNOWLEDGE HOUSE!!

**RESOURCES**

Useful collection of SIMPLE HAND SIGNS (great place to start):

<https://www.kaggle.com/datamunge/sign-language-mnist>

This resource seems to have GREAT value, tons of data inside, with pictures of signs (check out the different databases):

<http://www-i6.informatik.rwth-aachen.de/~dreuw/database.php>

> example (yes it is ftp://): ftp://[wasserstoff.informatik.rwth-aachen.de/pub/rwth-boston-50/rwth-boston-50/l1o-set/book1/book1-a-00-0.png](http://wasserstoff.informatik.rwth-aachen.de/pub/rwth-boston-50/rwth-boston-50/l1o-set/book1/book1-a-00-0.png)

This resource shows some potential, but we need to contact a professor from Purdue University:  
<http://www2.ece.ohio-state.edu/~aleix/ASLdatabase.htm>

> These two links also seem to be talking about the same database:

<https://engineering.purdue.edu/RVL/Database/ASL/asl-database-front.htm>

<https://engineering.purdue.edu/RVL/Database/ASL/DirectionsDBUse.pdf>

LARGE collection of datasets, requires some browsing to determine what has the things we need:

<http://facundoq.github.io/unlp/sign_language_datasets/index.html>

No images, but data ABOUT the signs may be useful (two links):

<http://asl-lex.org/>

<https://www.kaggle.com/rtatman/sign-language-analyses>

TRAINING:

MNIST: <https://www.kaggle.com/datamunge/sign-language-mnist>

TESTING:

<http://empslocal.ex.ac.uk/people/staff/np331/index.php?section=FingerSpellingDataset>

* <http://creat-tabu.blogspot.com/2013/08/opencv-python-hand-gesture-recognition.html>
* <https://www.learnopencv.com/deep-learning-using-keras-the-basics/>
* <https://aboveintelligent.com/face-recognition-with-keras-and-opencv-2baf2a83b799?gi=f05ac6753a89>
* <https://github.com/jrobchin/Computer-Vision-Basics-with-Python-Keras-and-OpenCV>
* <https://www.youtube.com/watch?v=Z78zbnLlPUA&index=1&list=PLQVvvaa0QuDdttJXlLtAJxJetJcqmqlQq>
* <https://pythonprogramming.net/loading-images-python-opencv-tutorial/>

In web version (button for the next tutorial is at the bottom):

<https://pythonprogramming.net/loading-images-python-opencv-tutorial/>

In video version:

<https://www.youtube.com/watch?v=Z78zbnLlPUA&index=1&list=PLQVvvaa0QuDdttJXlLtAJxJetJcqmqlQq>

He also has tutorials for Tensorflow (Deep Learning with Neural Networks)