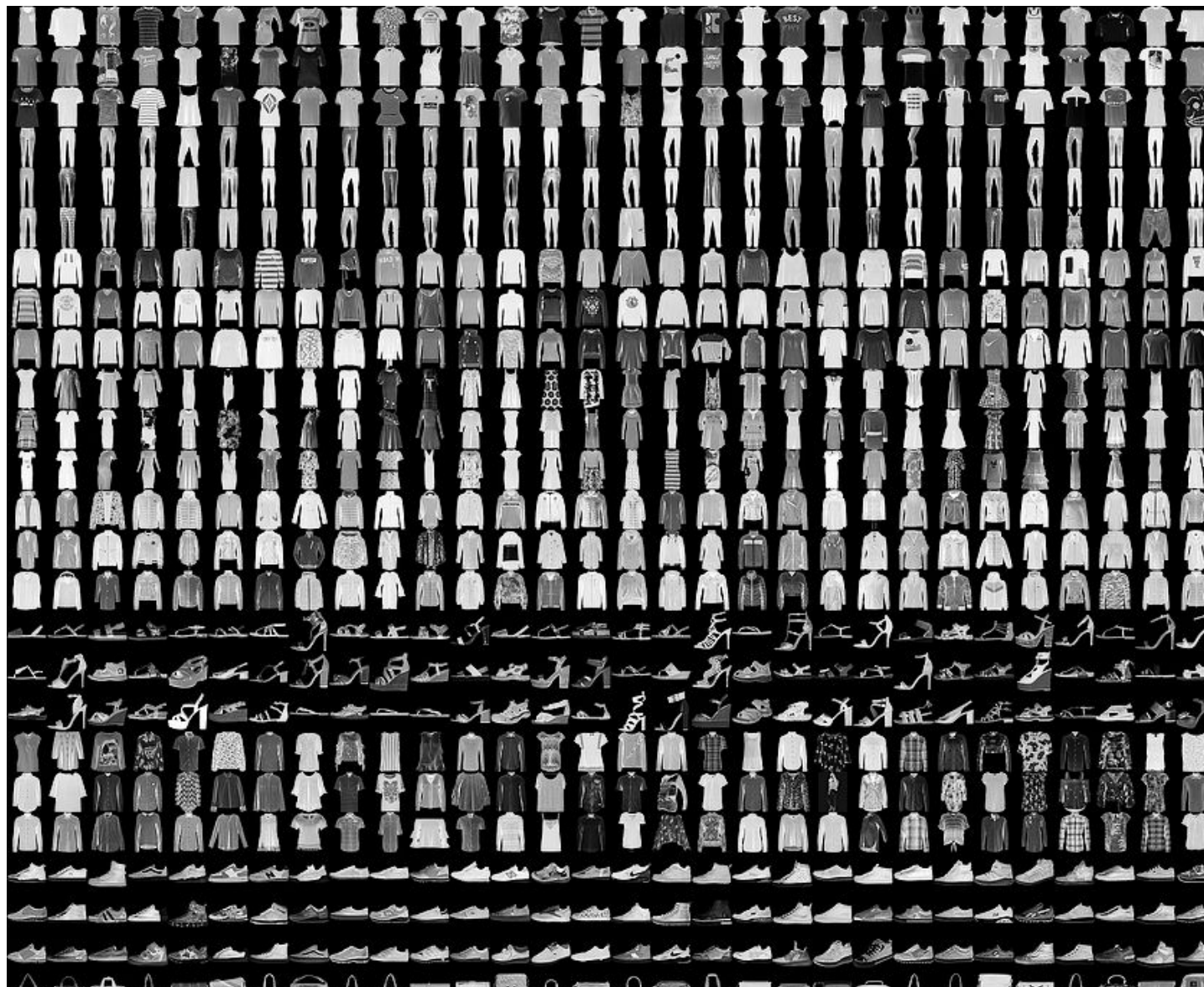


# ADLxMLDS HW0

2017/9/14

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# Fashion MNIST



# Fashion MNIST

Fashion-MNIST is a dataset of Zalando's article images—consisting of a training set of 60,000 examples and a test set of 10,000 examples. Each example is a 28x28 grayscale image, associated with a label from 10 classes.

Fashion-MNIST is a dataset of Zalando's article images—consisting of a training set of 60,000 examples and a test set of 10,000 examples. Each example is a 28x28 grayscale image, associated with a label from 10 classes

You need to build a model to predict the labels of the given images.

Label	Description
0	T-shirt/top
1	Trouser
2	Pullover
3	Dress
4	Coat
5	Sandal
6	Shirt
7	Sneaker
8	Bag
9	Ankle boot

# Data

- [[Download](#)]
- Training data:
  - train-images-idx3-ubyte.gz**: training set images (60000 images)
  - train-labels-idx1-ubyte.gz**: training set labels (60000 labels)
- Testing data:
  - t10k-images-idx3-ubyte.gz**: testing set images (10000 images)

# Data Format - Image

[offset]	[type]	[value]	[description]
0000	32 bit integer	0x00000803(2051)	magic number
0004	32 bit integer	60000	number of images
0008	32 bit integer	28	number of rows
0012	32 bit integer	28	number of columns
0016	unsigned byte	??	pixel
0017	unsigned byte	??	pixel
.....			
xxxx	unsigned byte	??	pixel

Pixels are organized row-wise. Pixel values are 0 to 255. 0 means background (white), 255 means foreground (black).

- ignore first 16 bytes
- 784 bytes for each image (28\*28) - 0~255
- 60000 images
- same format in testing image file (10000 data)
- For more details: <http://yann.lecun.com/exdb/mnist/>

# Data Format - Label

[offset]	[type]	[value]	[description]
0000	32 bit integer	0x00000801(2049)	magic number (MSB first)
0004	32 bit integer	60000	number of items
0008	unsigned byte	??	label
0009	unsigned byte	??	label
.....			
xxxx	unsigned byte	??	label

The labels values are 0 to 9.

- ignore first 8 bytes
- 60000 bytes for 60000 int - 0~9
- For more details: <http://yann.lecun.com/exdb/mnist/>

# Requirements

- **accuracy achieve 0.85 in public testing set**
- no constraint on models or programming languages

# Answer File Format

- csv file  
[id, label]  
id : 0~9999  
label : 0~9

1	id, label
2	0,6
3	1,6
4	2,6
5	3,6
6	4,6
7	5,6
8	6,4
9	7,7
10	8,5



# Kaggle in Class

- kaggle link: <https://inclass.kaggle.com/c/hw0-fashion-mnist>
- deadline: 台灣時間 2017/9/17 12:00 (UTC+8)
- please use your student ID as your team name

## Dashboard

Home



Data



Make a submission



Information



Description

Evaluation

Rules

Forum



Leaderboard



My Team



My Submissions



## Public Leaderboard

1. r05921052

## Manage Your Team

Make a Submission

on behalf of your team.

Team Name

r05921052

Team Members



**Alison**

Team Leader

#	Δ12h	Team Name	Score ?	Entries	Last Submission UTC (Best – Last Submission)
1	—	<b>r05921052</b>	<b>1.00000</b>	<b>2</b>	<b>Tue, 21 Feb 2017 08:31:40</b>

# Reminders

- Please fill out the [registration form](#)
- check out the [course website](#)
- **Please use your student ID as your team name (Kaggle)**



李宏毅

21 mins



各位同學大家好，我再重申一次拿學分的規定。因為這學期 ADL 和 MLDS 是同一門課，所以你只可以二擇一，不可以同時修兩門課拿六學分。另外，如果你已經修過 2017 年春季的 MLDS 或 2016 年秋季的 ADL，那麼請不要修這學期的 MLDS 和 ADL，因為重疊性太大。但如果你是修 2015 年間的 MLDS，那你這學期還可以再修 ADL 或 MLDS，因為在內容上已經有足夠的差異



Yun-Nung Chen

Seen by 6



Like



Comment

Welcome to ADLxMLDS!