

```
%tensorflow_version 1.x
```

 TensorFlow 1.x selected.

## ▼ 폐 영역분할

다음의 2019 대한의료인공지능학회 Summer School에서 진행한 AI hands-on의 자료에서 코드를 가져와서 수정함.

[https://github.com/mi2rl/ai\\_hands-on/blob/master/KoSAIM\\_Summer\\_School\\_2019\\_Handson\\_03\\_Segmentation.ipynb](https://github.com/mi2rl/ai_hands-on/blob/master/KoSAIM_Summer_School_2019_Handson_03_Segmentation.ipynb)

## ▼ 폐 데이터 다운로드

다음에서 다운받은 데이터

<https://www.kaggle.com/nikhilpandey360/lung-segmentation-from-chest-x-ray-dataset>

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!rm -rf Lung_Segmentation.zip
```

```
!wget https://github.com/dhrim/wiset_2020_06/raw/master/material/deep_learning/Lung_Segmentation.zi
```

 --2020-06-23 05:03:29-- [https://github.com/dhrim/wiset\\_2020\\_06/raw/master/material/deep\\_learning/Lung\\_Segmentation.zip](https://github.com/dhrim/wiset_2020_06/raw/master/material/deep_learning/Lung_Segmentation.zip)  
Resolving github.com (github.com)... 140.82.118.3  
Connecting to github.com (github.com)|140.82.118.3|:443... connected.  
HTTP request sent, awaiting response... 302 Found  
Location: [https://raw.githubusercontent.com/dhrim/wiset\\_2020\\_06/master/material/deep\\_learning/Lung\\_Segmentation.zip](https://raw.githubusercontent.com/dhrim/wiset_2020_06/master/material/deep_learning/Lung_Segmentation.zip)  
--2020-06-23 05:03:29-- [https://raw.githubusercontent.com/dhrim/wiset\\_2020\\_06/master/material/deep\\_learning/Lung\\_Segmentation.zip](https://raw.githubusercontent.com/dhrim/wiset_2020_06/master/material/deep_learning/Lung_Segmentation.zip)  
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 151.101.0.133, 151.101.64.  
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|151.101.0.133|:443... con  
HTTP request sent, awaiting response... 200 OK  
Length: 37648324 (36M) [application/zip]  
Saving to: 'Lung\_Segmentation.zip'

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Lung_Segmentation.zip 100%[=====] 35.90M 105MB/s in 0.3s
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2020-06-23 05:03:29 (105 MB/s) - 'Lung_Segmentation.zip' saved [37648324/37648324]
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!rm -rf Lung_Segmentation  
!unzip Lung_Segmentation.zip
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[...]
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