Task 1:

Review

Slide 1: Flowers 102

<https://www.robots.ox.ac.uk/~vgg/data/flowers/102/>

Slide 2: Task 1: Flower Classification

Resnet50 97.9%: [ResNet strikes back: An improved training procedure in timm](https://paperswithcode.com/paper/resnet-strikes-back-an-improved-training)

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| 17 | [**EfficientNet-B7**](https://paperswithcode.com/paper/efficientnet-rethinking-model-scaling-for) | 98.8% |  |  |  | [EfficientNet: Rethinking Model Scaling for Convolutional Neural Networks](https://paperswithcode.com/paper/efficientnet-rethinking-model-scaling-for) |  |  | 2019 | **EfficientNet** |
| 18 | [**EfficientNetV2-L**](https://paperswithcode.com/paper/efficientnetv2-smaller-models-and-faster) | 98.8 |  |  |  | [EfficientNetV2: Smaller Models and Faster Training](https://paperswithcode.com/paper/efficientnetv2-smaller-models-and-faster) |  |  | 2021 | **EfficientNet** |

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| [**CCT-14/7x2**](https://paperswithcode.com/paper/escaping-the-big-data-paradigm-with-compact) | 99.76 |  |  |  | [Escaping the Big Data Paradigm with Compact Transformers](https://paperswithcode.com/paper/escaping-the-big-data-paradigm-with-compact) |  |  | 2021 |  |
| 2 | [**CvT-W24**](https://paperswithcode.com/paper/cvt-introducing-convolutions-to-vision) | 99.72 |  |  |  | [CvT: Introducing Convolutions to Vision Transformers](https://paperswithcode.com/paper/cvt-introducing-convolutions-to-vision) |  |  | 2021 |

Our approach:

Darknet53 – from YOLOv3.

Have 53 layers, much simpler than these above.

Do not require any pretrained like transformers to achieve big approach

Simpler do not require many resouces to train like efficinetNet

Do not require advanced technical training to boost the performance like resnet.

Strong point