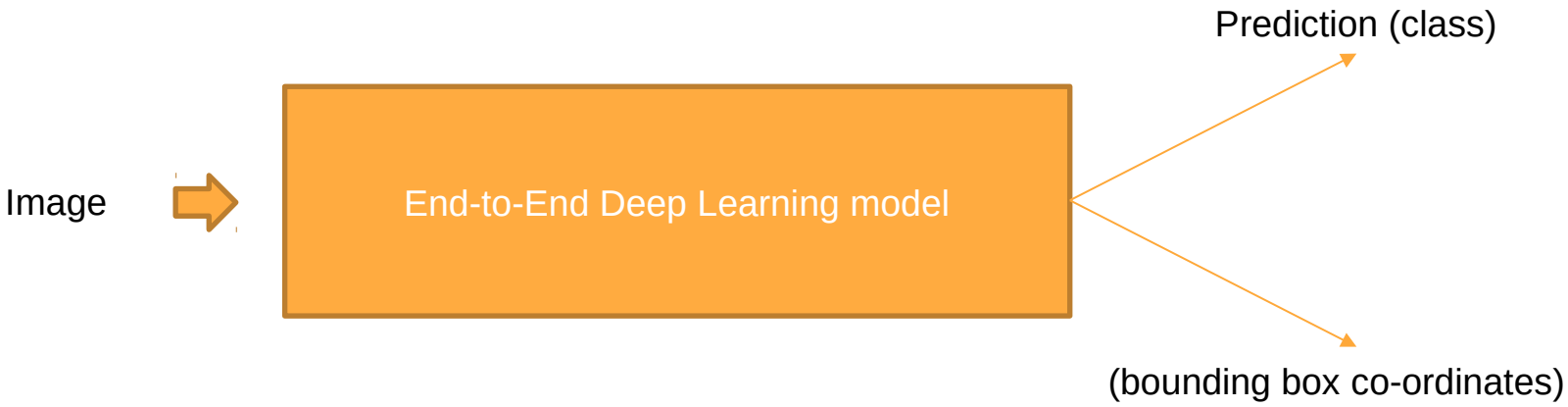
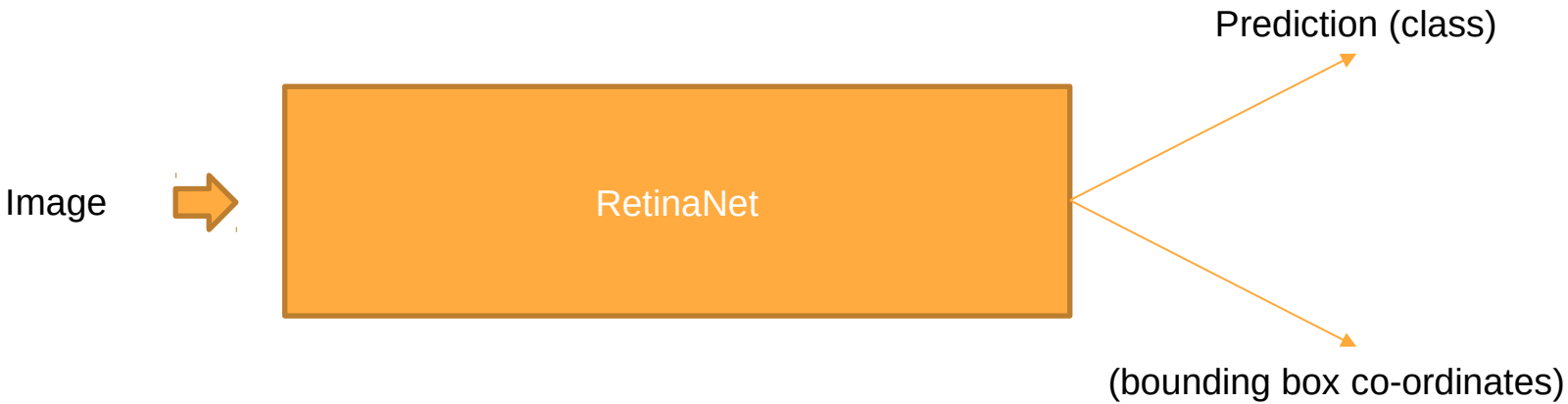
How does RetinaNet work?

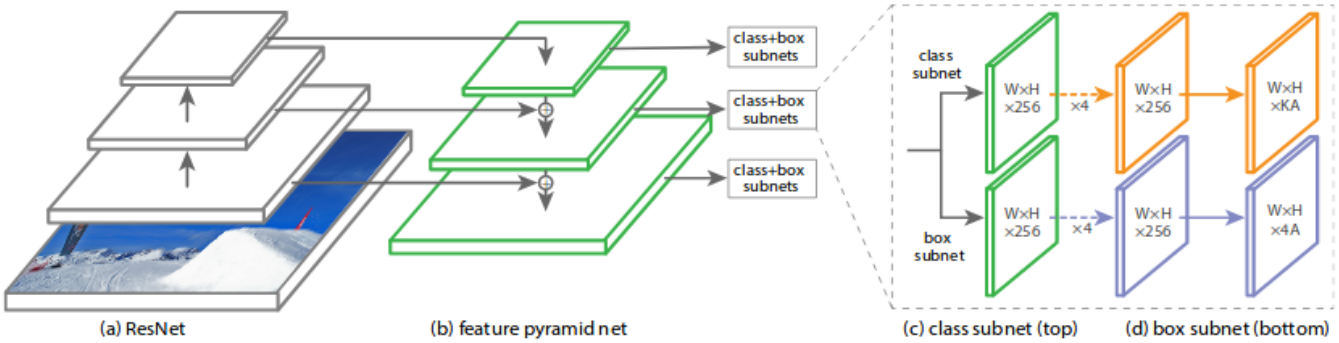
Using End-to-End Deep Learning



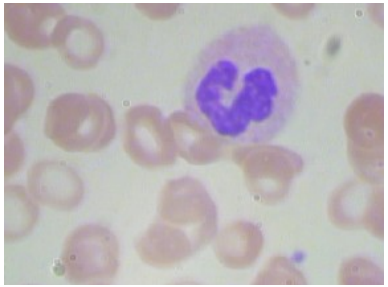
Using End-to-End Deep Learning



RetinaNet Architecture



RetinaNet Architecture

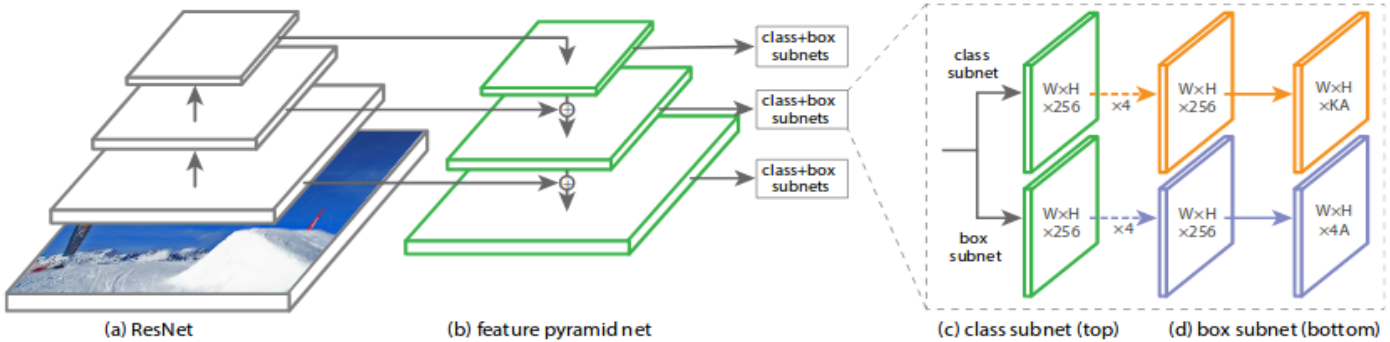


Patch Extraction

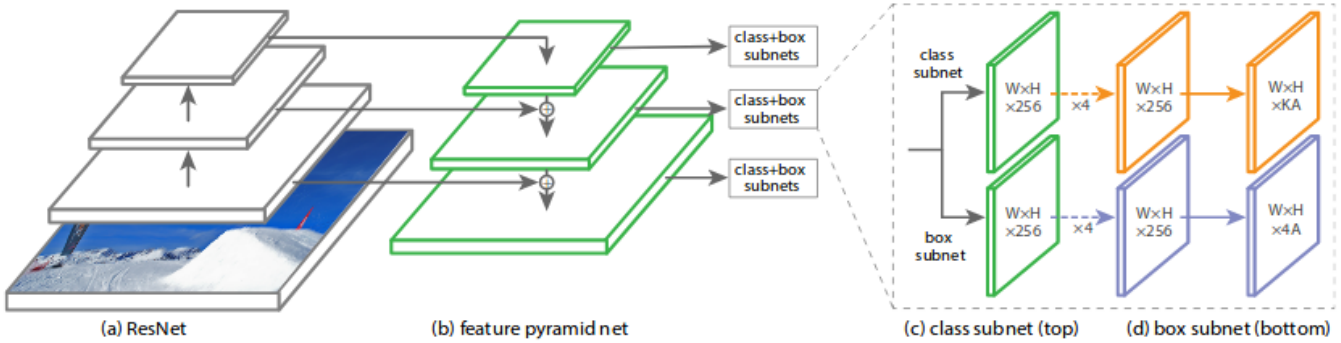
Patch Selection

Classification

Regression

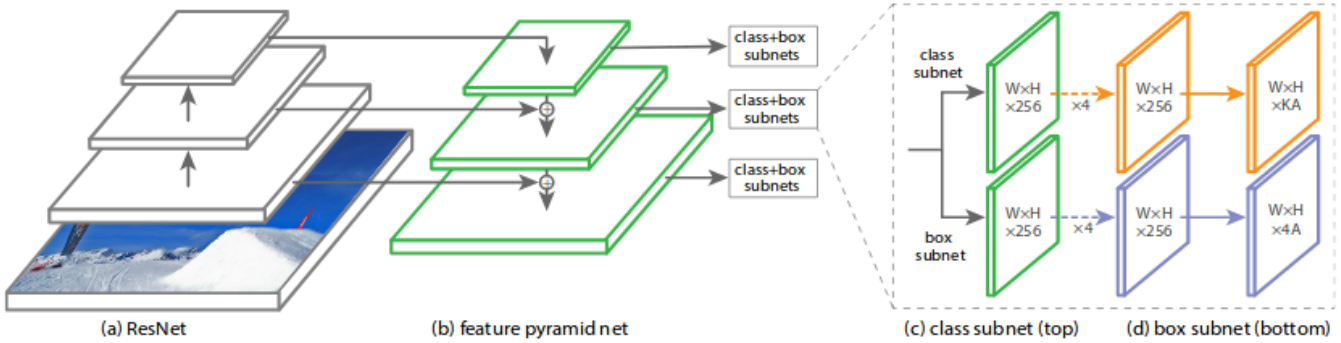


RetinaNet Architecture



Key Points :

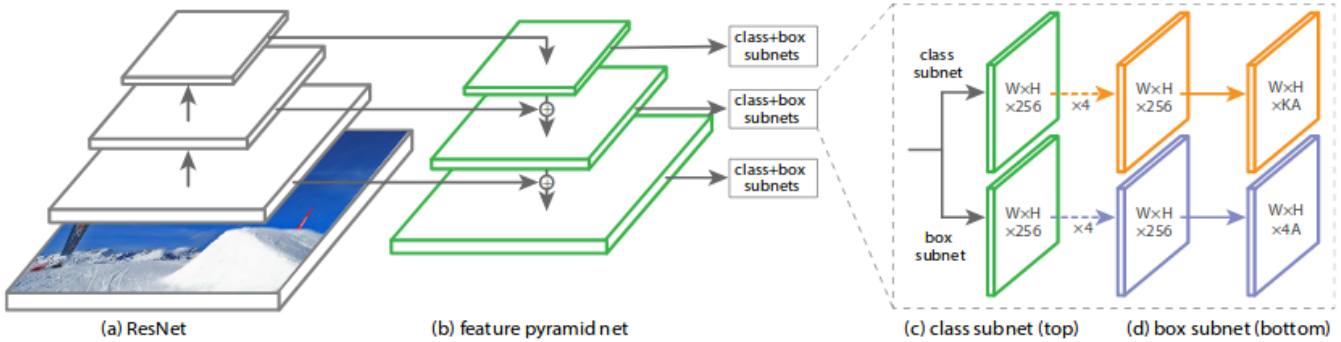
RetinaNet Architecture



Key Points :

- Feature Pyramid Network

RetinaNet Architecture

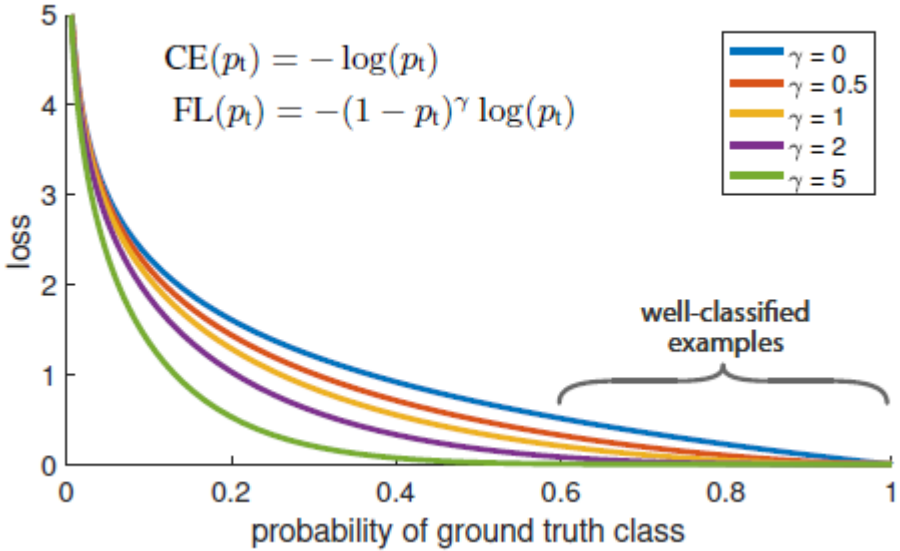


Key Points :

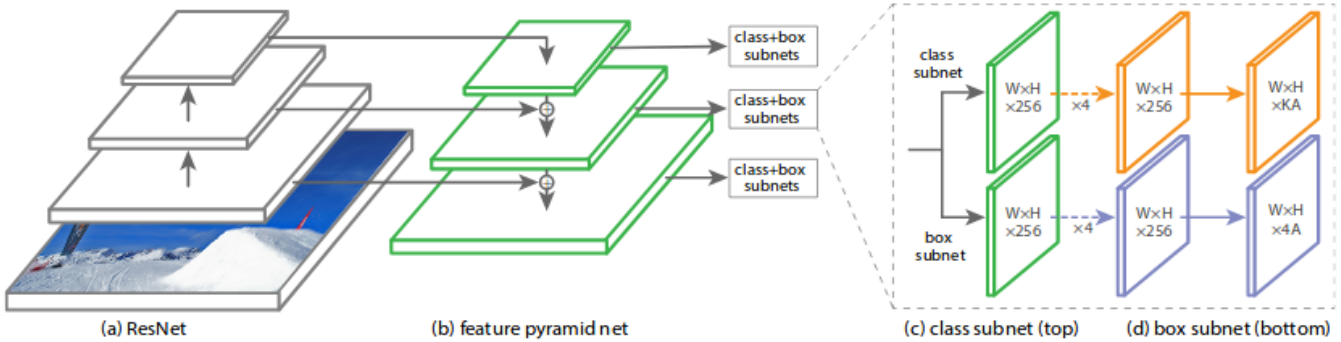
- Feature Pyramid Network
- Focal Loss

RetinaNet Architecture

- Tackles the noisy data problem
- Lower loss for well-classified examples



RetinaNet Architecture



Key Points :

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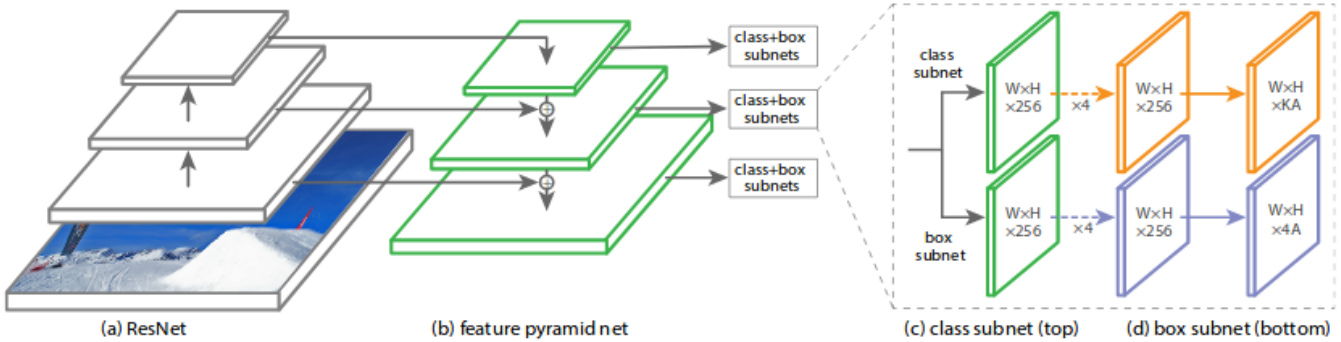
- Focal Loss

RetinaNet Architecture



Key Points :

- Feature Pyramid Network
- Focal Loss