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transfer learning - don't reinvent the wheel, instead reuse the heavylifting



## use a pretrained network as feature extractor

- lear from scrutch takes long time a require Lots of trong date on a similar problem Ex network traned on imagenet datiset

- reuse weight & kernet to extract feature maps juput - Pretrated -Jestine extruction replice with own MLP Method 1 - fast feature extraction

det - Tremed - f. maps frete weights obnitive e.g. MLP Method 2 Feature extruction nen - pre d + []] freeze weights FPL BP

## fine tuning

new prehad own freeze adjust men men

idea is that the emlier lyers learn

fundamental structures while deeper layers specializes to learn specific structures that are important for our dutaset