Simpler is Better: off-the-shelf Continual Learning through Pretrained Backbones

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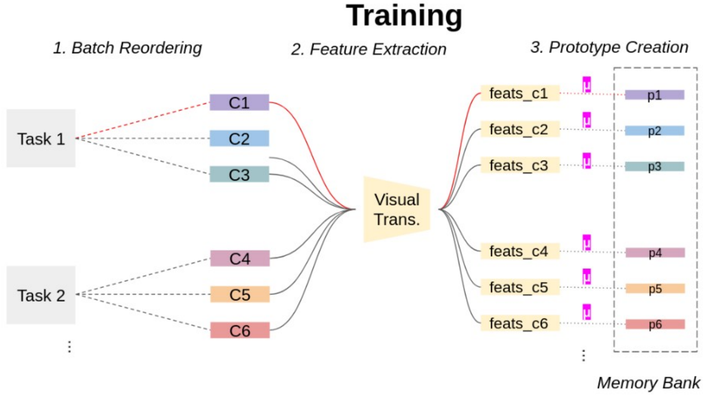
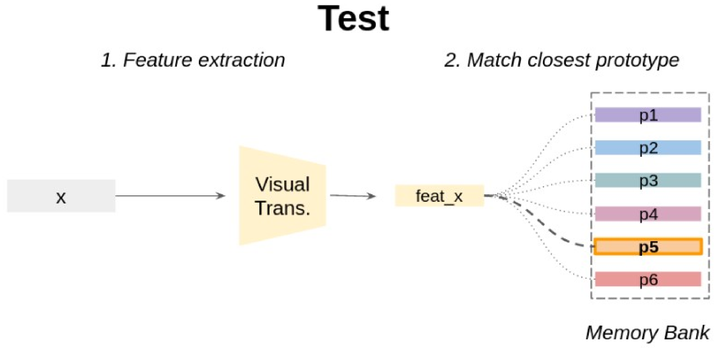
Wanna do Continual Learning with a cheap pipeline?





Memory KiB class	Params	Model	CIFAR100 [10]	CIFAR10 [10]	Core50 [13]	Oxford Flowers102 [18]	Tiny ImgNet200 [23]
2 KiB	11.7M	*resnet18*	0.53	0.76	0.72	0.73	0.55
2 KiB	*21.8M*	*resnet34*	0.55	0.81	0.74	0.67	0.62
8 KiB	*25.5M*	*resnet50*	0.59	0.80	0.71	0.70	0.63
8 KiB	*60.1M*	*resnet152*	0.67	0.89	0.72	0.66	0.76
0.75 KiB	*5.6M*	*ViT-T/16*	0.36	0.63	0.49	0.54	0.24
3 KiB	*86.4M*	*ViT-B/16*	0.64	0.87	0.74	**0.95**	0.63
0.75 KiB	*5.6M*	*DeiT-T/16*	0.57	0.80	0.73	0.68	0.64
3 KiB	*86.4M*	*DeiT-B/16*	**0.68**	**0.90**	**0.80**	0.74	**0.79**

- *Few Kbytes of memory consumption*
- *Fast*
- *200 lines of Python*
- *Believe me Amazing results (w.r.t. sota)*
- *p.s. are we really progressing in CL…??*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