## The NAS Best Practices Checklist (version 1.0, September 6, 2019)

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Best practices for releasing code
For all experiments you report, check if you released:
☐ Code for the training pipeline used to evaluate the final architectures
☐ Code for the search space
☐ The hyperparameters used for the final evaluation pipeline, as well as random seeds
☐ Code for your NAS method
$\square$ Hyperparameters for your NAS method, as well as random seeds
Note that the easiest way to satisfy the first three of these is to use <i>existing</i> NAS benchmarks, rather than changing them or introducing new ones.
Best practices for comparing NAS methods
☐ For all NAS methods you compare, did you use exactly the same NAS benchmark, including the same <i>dataset</i> (with the same training-test split), <i>search space</i> and <i>code</i> for training the architectures and <i>hyperparameters</i> for that code?
☐ Did you control for confounding factors (different hardware, versions of DL libraries, different runtimes for the different methods)?
☐ Did you run ablation studies?
☐ Did you use the same evaluation protocol for the methods being compared?
☐ Did you compare performance over time?
☐ Did you compare to random search?
☐ Did you perform multiple runs of your experiments and report seeds?
☐ Did you use tabular or surrogate benchmarks for in-depth evaluations?
Best practices for reporting important details
☐ Did you report how you tuned hyperparameters, and what time and resources this required?
☐ Did you report the time for the entire end-to-end NAS method (rather than, e.g., only for the search phase)?
☐ Did you report all the details of your experimental setup?

For details on these best practices, please see our paper "Best Practices for Scientific Research on Neural Architecture Search", https://arxiv.org/abs/1909.02453.