

All beta test results are based on the test split of the same dataset and 20 epochs unless stated otherwise

1. Test: Validation vs. No validation; Raf-Db vs. Affectnet

Batchsize:64

	Raf db	Affectnet
Without Validation (test acc.)	0,8137	0,6025
Validation (val.acc)	0,8165	0,6225

Conclusions

- only slight increase with validation on one dataset, which could be coincidence
- Raf-Db performs way better than Affectnet

Following tests in this version of the document will be made using Raf-db with a validation step (numbers are val. Accuracies)

2. Test: different batch sizes

Batch size:	32	64	128	512	1024
Raf-Db with val.	0,8110	0,8165	0,8039	0,7764	0,7474

Conclusions

- Batch size of 64 has the best val. Accuracy, though similar to 32. Generally bigger batch sizes seem to perform worse

Following tests in this version of the document will be made using Raf-db with a validation step (numbers are val. Accuracies) and batch size =64

3. Test: Data augmentation

With data augmentation	W/O data augmentation
0,8132	0,8165

Conclusions

- Data augmentation doesn't improve the val. Accuracy in this test. Since data augmentation makes training harder (especially in earlier epochs), this has to be retested with an higher amount of epochs