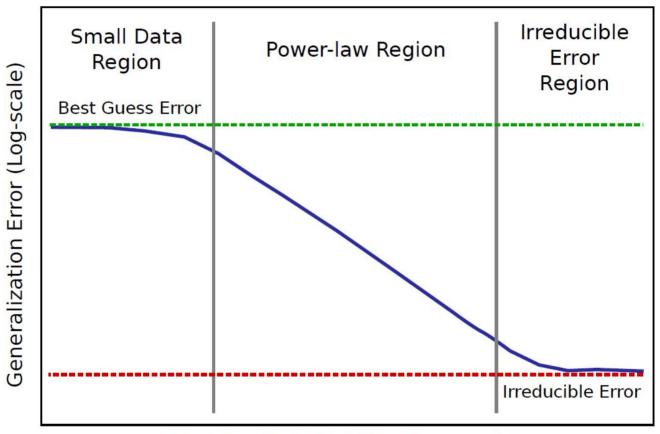
误差幂律

Hestness, Joel, et al. "Deep learning scaling is predictable, empirically." *arXiv preprint arXiv:1712.00409* (2017).

经验曲线:

误差
$$\propto$$
 训练集大小 $^{-eta_g}$ $\left(0模型大小 \propto 训练集大小 eta_p $\left(0.5$$

甚至,同个问题的不同算法, β_g 的值都十分相似



Training Data Set Size (Log-scale)

- aid model and optimization debugging and iteration time, and offer a way to estimate the most impactful next steps to improve model accuracy.
- guide decision-making about whether or how to grow data sets or computation.
- estimate compute requirements and guide system design and expansion