

# Real Analysis

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**1 Lecture 1 (Thu 15 Aug 2019 11:04)**

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See Folland's Real Analysis, definitely a recommended reference.

Possible first day question: how can we “measure” a subset of  $\mathbb{R}$ ? We'd like bigger sets to have a higher measure, we wouldn't want removing points to increase the measure, etc. This is not quite possible, at least something that works on *all* subsets of  $\mathbb{R}$ . We'll come back to this in a few lectures.

*Notions of “smallness” in  $\mathbb{R}$*