

# Bucket Handles and Other Fancy Continua

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A continuum is a compact, connected, nonempty, metric space. A continuum is decomposable if it is the union of two of its proper subcontinua; otherwise it is indecomposable.

Most (all?) of the continua you know are decomposable, yet indecomposable continua now play an exciting and essential role in dynamics, and understanding them has taken on new importance.

In this course you will learn how to construct continua, both indecomposable and decomposable. We will investigate some properties of continua and learn to recognize exotic continua in dynamical systems.

The course requires some point set topology as a prerequisite. Senior math majors and all graduate students in mathematics are invited to attend.