

Topological Vector Space

A vector space with a T2-space topology such that the operations of **vector addition** and **scalar multiplication** are **continuous**. The interesting examples are infinite-dimensional spaces, such as a space of functions. For example, a **Hilbert space** and a **Banach space** are topological vector spaces.

The choice of topology reflects what is meant by convergence of functions. For instance, for functions whose integrals converge, the **Banach space** $L^1(X)$, one of the **L-p-spaces**, is used. But if one is interested in **pointwise convergence**, then no norm will suffice. Instead, for each $x \in X$ define the **seminorm**

$$\|f\|_x = |f(x)|$$

on the vector space of functions on X . The seminorms define a topology, the smallest one in which the seminorms are **continuous**. So $\lim f_n = f$ is equivalent to $\lim f_n(x) = f(x)$ for all $x \in X$, i.e., **pointwise convergence**. In a similar way, it is possible to define a topology for which "convergence" means **uniform convergence** on

Topological Vector Spaces

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Topological Vector Spaces:

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