

Things I've learnt today

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Random things learnt on any given day. This template is based heavily off of the one produced by [Kevin Zhou](#).

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1 November 13, 2024

2 What is Obstruction Theory? [1]

The basic question is

”Given a continuous function $f : A \rightarrow C$, can we find extend it to a smooth function $f : X \rightarrow Y$ where $X \supset A, Y \supset C$?”

To begin, we consider CW Spaces. Then build up to more.

2.1 CW Spaces

Consider continuous map $f : X \rightarrow Y$ where X is a CW Complex.

References

- [1] Dmitry Fuchs Anatoly Fomenko. *Homotopical Topology, Second Edition*. Springer International Publishing Switzerland, 2016.