

Time has no dimensionality or physical existence

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Abstract. The author had been focusing on various aspects and treatments of time in physics for 50 years. Then the author set out on a project to improve how time was handled in physics. To achieve that goal, the author explicitly decided to forget about “Philosophical Time” and focus solely on “proper time” which is an excellent physics construct. Finding that proper time was all that physics required, it dawned on the author, quite to his surprise, that proper time also met all the needs of Philosophical Time. Hence, “time” as a separate physical entity disappeared to be replaced by a myriad of separate cyclic and non-cyclic processes each with its own idiosyncratic duration, all of which can be related to each other. These cyclic and noncyclic processes are all driven by PHYSICAL forces and energy sources that are known to physics, chemistry, biology, geology, etc. Below, I will refer to this collection of diverse processes simply as "processes" with or without a qualifier such as "cyclic" or "non-cyclic". The properties of “time”, except for dimensionality, are actually just properties of each individual process that unfolds within 3D space.