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Proposal: Unit Converter

Our proposed application is a unit converter.

**Capabilities**

**Basic Conversion.** The application offers several quantities, each corresponding to base SI units. The user selects two units of measurement belonging to the same quantity and assigns a numerical factor to one. The factor is converted to its equal for the other unit.

Available base quantities include:

* Length
* Mass
* Time
* Temperature

**Compound Conversion.** The application offers several quantities, each corresponding to derived SI units. The user may convert within these quantities as with the base quantities, using preselected units of measurement. They may also define their own compound units by selecting corresponding units from base quantities.

Available derived quantities include:

* Velocity
* Area
* Volume
* Force

*Example: velocity is defined as length over time. Several commonly used units can be selected, such as m/s, km/h, or mph. If the user wishes to convert between nonstandard units, they may create them by selecting one unit from the length quantity and one from the time quantity. In this manner, atypical velocity units can be defined, such as inch per minute, foot per second, or lightyear per week.*

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