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# **safe-cast Documentation**

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**TUNE Inc.**

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# CHAPTER 1

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## Introduction

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Safe casting of Python base types.



## CHAPTER 2

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### Badges

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## CHAPTER 3

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### Functions

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Function	Purpose
<code>safe_cast(val, to_type, default=None)</code>	Cast value to requested type, if failed, then used default.
<code>safe_str(val, default=None)</code>	Cast value to type string, if failed, then used default.
<code>safe_float(val, ndigits=2, default=None)</code>	Cast value to type float, if failed, then used default.
<code>safe_int(val, default=None)</code>	Cast value to type int, if failed, then used default.
<code>safe_dict(val, default=None)</code>	Cast value to type dictionary, if failed, then used default.
<code>safe_smart_cast(val)</code>	Determine type based upon value, and cast to that type.
<code>safe_cost(val)</code>	Cast value to type float by 4 decimal points.
<code>safe_fraction(val)</code>	Cast fraction to type float, if failed, then used default.



### 4.1 `safe_cast(val, to_type, default=None)`

Safely cast a value to type, and if failed, returned default if exists.

Optional: Pass default value. Returned if casting fails.

**param val** Value to be cast.

**param to\_type** Safely cast to a specific type.

**param default** Default if casting fails.

**return** Return casted value or default.

### 4.2 `safe_int(val, default=None)`

Safely cast a value to an integer.

Optional: Pass default value. Returned if casting fails.

**param val** Value to be cast to int.

**param default** Default if casting fails.

**return** Return int casted value or default.

### 4.3 `safe_float(val, ndigits=2, default=None)`

Safely cast a value to float, remove ',' if exists to ensure strings "1,234.5" are transformed to become "1234.5".

Optional: Pass default value. Returned if casting fails.

**param val** Value to be cast to float.  
**param ndigits** Number of digits in float.  
**param default** Default if casting fails.  
**return** Return float casted value or default.

#### 4.4 `safe_str(val, default=None)`

Safely cast a value to a string.

Optional: Pass default value. Returned if casting fails.

**param val** Value to be cast to string.  
**param default** Default if casting fails.  
**return** Return string casted value or default.

#### 4.5 `safe_dict(val, default=None)`

Safely cast a value to a dictionary.

Optional: Pass default value. Returned if casting fails.

**param val** Value to be cast to dictionary.  
**param default** Default if casting fails.  
**return** Return dictionary casted value or default.

#### 4.6 `safe_smart_cast(val)`

Safely cast a value to the best matching type. Optional: Pass default value. Returned if casting fails.

**param val** Value to be smartly cast.  
**return** Typed value

#### 4.7 `safe_fraction(fraction, ndigits=2, default=None)`

Safely cast a fraction string to float.

Optional: Pass default value. Returned if casting fails.

**param fraction** Value of fraction to be cast to float.  
**param ndigits** Number of digits in float.  
**param default** Default if casting fails.  
**return** Return float casted value or default.