





















Underwriter Class Cheat Sheet

The Underwriter call signature follows the corresponding DecL clauses, using prefixes for exposure (including limit sub-clause), severity, occurrence reinsurance, frequency, aggregate reinsurance, and note. `sev_xs`, `sev_ps` equal `dsev` outcomes and probabilities, and `(occ|agg)_reins` clauses are lists of (share, limit, attachment) triples.

```
m Severity(name, exp_el=0, exp_premium=0, exp_lr=0, exp_en=0, exp_attachment=0, exp_limit=np.inf,
sev_name="", sev_a=np.nan, sev_b=0, sev_mean=0, sev_cv=0, sev_loc=0, sev_scale=0, sev_xs=None, sev_ps=None, sev_wt=1, sev_conditional=True,
occ_reins=None, occ_kind="", freq_name="", freq_a=0, freq_b=0, freq_zm=False, freq_p0=np.nan, agg_reins=None, agg_kind="", note="")[0]
```

The following tables show all  methods, and fields or properties (used interchangeably). Comments elucidate the meaning of more obscure entries.

<div>1. Specification & creation</div> <div>None</div>	<div>5. Validation</div> <div> <code>interpret_program</code>,  <code>interpreter_file</code>,  <code>interpreter_line</code>,  <code>interpreter_list</code>,  <code>interpreter_test_suite</code>,  <code>test_suite</code>,</div>	<div>8. Visualization</div> <div>None</div>
<div>2. Update</div> <div><code>knowledge</code>, <code>lexer</code>, <code>log2</code>, <code>parser</code>,  <code>read_database</code>,  <code>read_databases</code>,  <code>safe_lookup</code>, <code>update</code>,  <code>write</code>,  <code>write_from_file</code>,</div>	<div>6. Output dataframes</div> <div>None</div>	<div>9. Risk and pricing</div> <div>None</div>
<div>3. Moments</div> <div>None</div>	<div>7. Reinsurance</div> <div>None</div>	<div>10. Approximations</div> <div>None</div>
<div>4. Statistical functions</div> <div>None</div>		<div>11. Meta</div> <div> <code>build</code>, <code>case_dir</code>, <code>databases</code>, <code>debug</code>, <code>default_dir</code>,  <code>dir</code>,  <code>factory</code>,  <code>logger_level</code>,  <code>more</code>, <code>name</code>,  <code>qlist</code>,  <code>qshow</code>,  <code>show</code>, <code>site_dir</code>, <code>template_dir</code>, <code>test_suite_file</code>, <code>version</code>,</div>

Notes:

[0]: Arguments `sev_pick_attachments=None`, `sev_pick_losses=None`, omitted; see help.

[1]: matches Portfolio

Any vectorizable input accepts numeric or iterable datatypes.

Abbreviations: `gc`=gross (subject), `ceded`, and `net`; `stats`:
`m`=mean, `cv`=coefficient of variation, `sd`=standard deviation,
`var`=variance, `skew(ness)`; `VaR`=value-at-risk

