

# Package ‘piton’

October 14, 2022

**Type** Package

**Title** Parsing Expression Grammars in Rcpp

**Version** 1.0.0

**URL** <https://github.com/Ironholds/piton>

**BugReports** <https://github.com/Ironholds/piton/issues>

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**Description** A wrapper around the 'Parsing Expression Grammar Template Library', a C++11 library for generating Parsing Expression Grammars, that makes it accessible within Rcpp. With this, developers can implement their own grammars and easily expose them in R packages.

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**LinkingTo** Rcpp

**Imports** Rcpp

**SystemRequirements** C++11

**RoxygenNote** 7.1.1

**Suggests** testthat

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**NeedsCompilation** yes

**Repository** CRAN

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peg\_sum

*Example PEG*

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**Description**

an example of a Parsing Expression Grammar (PEG) that takes a comma-separated string of digits and sums them together

**Usage**

```
peg_sum(x)
```

**Arguments**

x a vector of strings, each containing a comma-separated set of digits

**Value**

a vector of numbers, containing either the sum of the equivalent element of x or (if the element could not be parsed) NA.

**Examples**

```
# Simple example
peg_sum("1,2, 5, 91, 34")
```

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piton*Parsing Expression Grammars in Rcpp*

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**Description**

This package wraps the PEGTL library to make Parsing Expression Grammars available to R/C++ developers. As an exported, header-only package, it can be included in other Rcpp codebases using `depends` functionality, and is platform-independent.

**See Also**

the [README](#), or [peg\\_sum](#) for an example.

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