

# Package ‘vitals’

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**Title** Large Language Model Evaluation

**Version** 0.1.0

**Description** A port of 'Inspect', a widely adopted 'Python' framework for large language model evaluation. Specifically aimed at 'ellmer' users who want to measure the effectiveness of their large language model-based products, the package supports prompt engineering, tool usage, multi-turn dialog, and model graded evaluations.

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**URL** <https://github.com/tidyverse/vitals>, <https://vitals.tidyverse.org>

**BugReports** <https://github.com/tidyverse/vitals/issues>

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---

are	<i>An R Eval</i>
-----	------------------

---

Description

An R Eval is a dataset of challenging R coding problems. Each input is a question about R code which could be solved on first-read only by experts and, with a chance to read documentation and run some code, by fluent data scientists. Solutions are in `target()` and enable a fluent data scientist to evaluate whether the solution deserves full, partial, or no credit.

Pass this dataset to `Task$new()` to situate it inside of an evaluation task.

Usage

are

Format

- A tibble with 29 rows and 7 columns:
- id** Character. Unique identifier/title for the code problem.
  - input** Character. The question to be answered.
  - target** Character. The solution, often with a description of notable features of a correct solution.
  - domain** Character. The technical domain (e.g., Data Analysis, Programming, or Authoring).
  - task** Character. Type of task (e.g., Debugging, New feature, or Translation.)
  - source** Character. URL or source of the problem. NAs indicate that the problem was written originally for this eval.
  - knowledge** List. Required knowledge/concepts for solving the problem.

**Source**

Posit Community, GitHub issues, R4DS solutions, etc. For row-level references, see [source](#).

**Examples**

```
are
dplyr::glimpse(are)
```

---

generate

---

*Convert a chat to a solver function*


---

**Description**

`generate()` is the simplest possible solver one might use with `vitals`; it just passes its inputs to the supplied model and returns its raw responses. The inputs are evaluated in parallel, not in the sense of multiple R sessions, but in the sense of multiple, asynchronous HTTP requests using [ellmer::parallel\\_chat\(\)](#). `generate()`'s output can be passed directory to the solver argument of [Task](#)'s `$new()` method.

**Usage**

```
generate(solver_chat = NULL)
```

**Arguments**

`solver_chat`      An ellmer chat object, such as from [ellmer::chat\\_anthropic\(\)](#).

**Value**

The output of `generate()` is another function. That function takes in a vector of inputs, as well as a solver chat by the name of `solver_chat` with the default supplied to `generate()` itself.

See the documentation for the solver argument in [Task](#) for more information on the return type.

**Examples**

```
if (!identical(Sys.getenv("ANTHROPIC_API_KEY"), "")) {
  # set the log directory to a temporary directory
  withr::local_envvar(VITALS_LOG_DIR = withr::local_tempdir())

  library(ellmer)
  library(tibble)

  simple_addition <- tibble(
    input = c("What's 2+2?", "What's 2+3?"),
    target = c("4", "5")
  )
}
```

```

# create a new Task
tsk <- Task$new(
  dataset = simple_addition,
  solver = generate(chat_anthropic(model = "claude-3-7-sonnet-latest")),
  scorer = model_graded_qa()
)

# evaluate the task (runs solver and scorer) and opens
# the results in the Inspect log viewer (if interactive)
tsk$eval()

# $eval() is shorthand for:
tsk$solve()
tsk$score()
tsk$measure()
tsk$log()
tsk$view()

# get the evaluation results as a data frame
tsk$get_samples()

# view the task directory with $view() or vitals_view()
vitals_view()
}

```

---

scorer\_detect

*Scoring with string detection*


---

## Description

The following functions use string pattern detection to score model outputs.

- `detect_includes()`: Determine whether the target from the sample appears anywhere inside the model output. Can be case sensitive or insensitive (defaults to the latter).
- `detect_match()`: Determine whether the target from the sample appears at the beginning or end of model output (defaults to looking at the end). Has options for ignoring case, white-space, and punctuation (all are ignored by default).
- `detect_pattern()`: Extract matches of a pattern from the model response and determine whether those matches also appear in target.
- `detect_answer()`: Scorer for model output that precedes answers with "ANSWER: ". Can extract letters, words, or the remainder of the line.
- `detect_exact()`: Scorer which will normalize the text of the answer and target(s) and perform an exact matching comparison of the text. This scorer will return CORRECT when the answer is an exact match to one or more targets.

**Usage**

```

detect_includes(case_sensitive = FALSE)

detect_match(
  location = c("end", "begin", "end", "any"),
  case_sensitive = FALSE
)

detect_pattern(pattern, case_sensitive = FALSE, all = FALSE)

detect_exact(case_sensitive = FALSE)

detect_answer(format = c("line", "word", "letter"))

```

**Arguments**

<code>case_sensitive</code>	Logical, whether comparisons are case sensitive.
<code>location</code>	Where to look for match: one of "begin", "end", "any", or "exact". Defaults to "end".
<code>pattern</code>	Regular expression pattern to extract answer.
<code>all</code>	Logical: for multiple captures, whether all must match.
<code>format</code>	What to extract after "ANSWER:": "letter", "word", or "line". Defaults to "line".

**Value**

A function that scores model output based on string matching. Pass the returned value to `$eval(scorer)`. See the documentation for the `scorer` argument in [Task](#) for more information on the return type.

**See Also**

[model\\_graded\\_qa\(\)](#) and [model\\_graded\\_fact\(\)](#) for model-based scoring.

**Examples**

```

if (!identical(Sys.getenv("ANTHROPIC_API_KEY"), "")) {
  # set the log directory to a temporary directory
  withr::local_envvar(VITALS_LOG_DIR = withr::local_tempdir())

  library(ellmer)
  library(tibble)

  simple_addition <- tibble(
    input = c("What's 2+2?", "What's 2+3?"),
    target = c("4", "5")
  )

  # create a new Task
  task <- Task$new(

```

```

    dataset = simple_addition,
    solver = generate(solver_chat = chat_anthropic(model = "claude-3-7-sonnet-latest")),
    scorer = detect_includes()
)

# evaluate the task (runs solver and scorer)
task$eval()
}

```

---

scorer\_model

*Model-based scoring*


---

## Description

Model-based scoring makes use of a model to score output from a solver.

- `model_graded_qa()` scores how well a solver answers a question/answer task.
- `model_graded_fact()` determines whether a solver includes a given fact in its response.

The two scorers are quite similar in their implementation, but use a different default template to evaluate correctness.

## Usage

```

model_graded_qa(
  template = NULL,
  instructions = NULL,
  grade_pattern = "(?i)GRADE\\s*:\\s*([CPI])(.*)$",
  partial_credit = FALSE,
  scorer_chat = NULL
)

model_graded_fact(
  template = NULL,
  instructions = NULL,
  grade_pattern = "(?i)GRADE\\s*:\\s*([CPI])(.*)$",
  partial_credit = FALSE,
  scorer_chat = NULL
)

```

## Arguments

template	Grading template to use—a <code>glue()</code> string which will take substitutions input, answer, criterion, instructions.
instructions	Grading instructions.
grade_pattern	A regex pattern to extract the final grade from the judge model's response.
partial_credit	Whether to allow partial credit.
scorer_chat	An ellmer chat used to grade the model output, e.g. <code>ellmer::chat_anthropic()</code> .

**Value**

A function that will grade model responses according to the given instructions. See [Task](#)'s `scorer` argument for a description of the returned function. The functions that `model_graded_qa()` and `model_graded_fact()` output can be passed directly to `$eval()`.

See the documentation for the `scorer` argument in [Task](#) for more information on the return type.

**See Also**

[scorer\\_detect](#) for string detection-based scoring.

**Examples**

```
# Quality assurance -----
if (!identical(Sys.getenv("ANTHROPIC_API_KEY"), "")) {
  # set the log directory to a temporary directory
  withr::local_envvar(VITALS_LOG_DIR = withr::local_tempdir())

  library(ellmer)
  library(tibble)

  simple_addition <- tibble(
    input = c("What's 2+2?", "What's 2+3?"),
    target = c("4", "5")
  )

  tsk <- Task$new(
    dataset = simple_addition,
    solver = generate(solver_chat = chat_anthropic(model = "claude-3-7-sonnet-latest")),
    scorer = model_graded_qa()
  )

  tsk$eval()
}

# Factual response -----
if (!identical(Sys.getenv("ANTHROPIC_API_KEY"), "")) {
  # set the log directory to a temporary directory
  withr::local_envvar(VITALS_LOG_DIR = withr::local_tempdir())

  library(ellmer)
  library(tibble)

  r_history <- tibble(
    input = c(
      "Who created the R programming language?",
      "In what year was version 1.0 of R released?"
    ),
    target = c("Ross Ihaka and Robert Gentleman.", "2000.")
  )

  tsk <- Task$new(
```

```

    dataset = r_history,
    solver = generate(solver_chat = chat_anthropic(model = "claude-3-7-sonnet-latest")),
    scorer = model_graded_fact()
  )

  tsk$eval()
}

```

---

Task

---

*Creating and evaluating tasks*


---

## Description

Evaluation Tasks provide a flexible data structure for evaluating LLM-based tools.

1. **Datasets** contain a set of labelled samples. Datasets are just a tibble with columns input and target, where input is a prompt and target is either literal value(s) or grading guidance.
2. **Solvers** evaluate the input in the dataset and produce a final result.
3. **Scorers** evaluate the final output of solvers. They may use text comparisons (like `detect_match()`), model grading (like `model_graded_qa()`), or other custom schemes.

**The usual flow of LLM evaluation with Tasks calls `$new()` and then `$eval()`.** `$eval()` just calls `$solve()`, `$score()`, `$measure()`, `$log()`, and `$view()` in order. The remaining methods are generally only recommended for expert use.

## Public fields

`dir` The directory where evaluation logs will be written to. Defaults to `vitals_log_dir()`.

`metrics` A named vector of metric values resulting from `$measure()` (called inside of `$eval()`). Will be NULL if metrics have yet to be applied.

## Methods

### Public methods:

- `Task$new()`
- `Task$eval()`
- `Task$get_samples()`
- `Task$solve()`
- `Task$score()`
- `Task$measure()`
- `Task$log()`
- `Task$view()`
- `Task$set_solver()`
- `Task$set_scorer()`
- `Task$set_metrics()`



- `Task$get_cost()`
- `Task$clone()`

**Method** `new()`: The typical flow of LLM evaluation with vitals tends to involve first calling this method and then `$eval()` on the resulting object.

*Usage:*

```
Task$new(
  dataset,
  solver,
  scorer,
  metrics = NULL,
  epochs = NULL,
  name = deparse(substitute(dataset)),
  dir = vitals_log_dir()
)
```

*Arguments:*

`dataset` A tibble with, minimally, columns `input` and `target`.

`solver` A function that takes a vector of inputs from the dataset's `input` column as its first argument and determines values approximating `dataset$target`. Its return value must be a list with the following elements:

- `result` - A character vector of the final responses, with the same length as `dataset$input`.
- `solver_chat` - A list of ellmer Chat objects that were used to solve each input, also with the same length as `dataset$input`.

Additional output elements can be included in a slot `solver_metadata` that has the same length as `dataset$input`, which will be logged in `solver_metadata`.

Additional arguments can be passed to the solver via `$solve(...)` or `$eval(...)`. See the definition of `generate()` for a function that outputs a valid solver that just passes inputs to ellmer Chat objects' `$chat()` method in parallel.

`scorer` A function that evaluates how well the solver's return value approximates the corresponding elements of `dataset$target`. The function should take in the `$get_samples()` slot of a Task object and return a list with the following elements:

- `score` - A vector of scores with length equal to `nrow(samples)`. Built-in scorers return ordered factors with levels `I < P` (optionally) `< C` (standing for "Incorrect", "Partially Correct", and "Correct"). If your scorer returns this output type, the package will automatically calculate metrics.

Optionally:

- `scorer_chat` - If your scorer makes use of ellmer, also include a list of ellmer Chat objects that were used to score each result, also with length `nrow(samples)`.
- `scorer_metadata` - Any intermediate results or other values that you'd like to be stored in the persistent log. This should also have length equal to `nrow(samples)`.

Scorers will probably make use of `samples$input`, `samples$target`, and `samples$result` specifically. See [model-based scoring](#) for examples.

`metrics` A named list of functions that take in a vector of scores (as in `task$get_samples()$score`) and output a single numeric value.

`epochs` The number of times to repeat each sample. Evaluate each sample multiple times to better quantify variation. Optional, defaults to 1L. The value of `epochs` supplied to `$eval()` or `$score()` will take precedence over the value in `$new()`.

`name` A name for the evaluation task. Defaults to `deparse(substitute(dataset))`.

`dir` Directory where logs should be stored.

*Returns:* A new Task object.

**Method** `eval()`: Evaluates the task by running the solver, scorer, logging results, and viewing (if interactive). This method works by calling `$solve()`, `$score()`, `$log()`, and `$view()` in sequence.

The typical flow of LLM evaluation with vitals tends to involve first calling `$new()` and then this method on the resulting object.

*Usage:*

```
Task$eval(..., epochs = NULL, view = interactive())
```

*Arguments:*

`...` Additional arguments passed to the solver and scorer functions.

`epochs` The number of times to repeat each sample. Evaluate each sample multiple times to better quantify variation. Optional, defaults to 1L. The value of `epochs` supplied to `$eval()` or `$score()` will take precedence over the value in `$new()`.

`view` Automatically open the viewer after evaluation (defaults to TRUE if interactive, FALSE otherwise).

*Returns:* The Task object (invisibly)

**Method** `get_samples()`: The task's samples represent the evaluation in a data frame format.

`vitals_bind()` row-binds the output of this function called across several tasks.

*Usage:*

```
Task$get_samples()
```

*Returns:* A tibble representing the evaluation. Based on the dataset, `epochs` may duplicate rows, and the solver and scorer will append columns to this data.

**Method** `solve()`: Solve the task by running the solver

*Usage:*

```
Task$solve(..., epochs = NULL)
```

*Arguments:*

`...` Additional arguments passed to the solver function.

`epochs` The number of times to repeat each sample. Evaluate each sample multiple times to better quantify variation. Optional, defaults to 1L. The value of `epochs` supplied to `$eval()` or `$score()` will take precedence over the value in `$new()`.

*Returns:* The Task object (invisibly)

**Method** `score()`: Score the task by running the scorer and then applying metrics to its results.

*Usage:*

```
Task$score(...)
```

*Arguments:*

`...` Additional arguments passed to the scorer function.

*Returns:* The Task object (invisibly)

**Method** `measure()`: Applies metrics to a scored Task.

*Usage:*

`Task$measure()`

*Returns:* The Task object (invisibly)

**Method** `log()`: Log the task to a directory.

Note that, if an `VITALS_LOG_DIR` envvar is set, this will happen automatically in `$eval()`.

*Usage:*

`Task$log(dir = vitals_log_dir())`

*Arguments:*

`dir` The directory to write the log to.

*Returns:* The path to the logged file, invisibly.

**Method** `view()`: View the task results in the Inspect log viewer

*Usage:*

`Task$view()`

*Returns:* The Task object (invisibly)

**Method** `set_solver()`: Set the solver function

*Usage:*

`Task$set_solver(solver)`

*Arguments:*

`solver` A function that takes a vector of inputs from the dataset's input column as its first argument and determines values approximating `dataset$target`. Its return value must be a list with the following elements:

- `result` - A character vector of the final responses, with the same length as `dataset$input`.
- `solver_chat` - A list of ellmer Chat objects that were used to solve each input, also with the same length as `dataset$input`.

Additional output elements can be included in a slot `solver_metadata` that has the same length as `dataset$input`, which will be logged in `solver_metadata`.

Additional arguments can be passed to the solver via `$solve(...)` or `$eval(...)`. See the definition of [generate\(\)](#) for a function that outputs a valid solver that just passes inputs to ellmer Chat objects' `$chat()` method in parallel.

*Returns:* The Task object (invisibly)

**Method** `set_scorer()`: Set the scorer function

*Usage:*

`Task$set_scorer(scorer)`

*Arguments:*

`scorer` A function that evaluates how well the solver's return value approximates the corresponding elements of `dataset$target`. The function should take in the `$get_samples()` slot of a Task object and return a list with the following elements:

- `score` - A vector of scores with length equal to `nrow(samples)`. Built-in scorers return ordered factors with levels `I < P` (optionally) `< C` (standing for "Incorrect", "Partially Correct", and "Correct"). If your scorer returns this output type, the package will automatically calculate metrics.

Optionally:

- `scorer_chat` - If your scorer makes use of `ellmer`, also include a list of `ellmer Chat` objects that were used to score each result, also with length `nrow(samples)`.
- `scorer_metadata` - Any intermediate results or other values that you'd like to be stored in the persistent log. This should also have length equal to `nrow(samples)`.

Scorers will probably make use of `samples$input`, `samples$target`, and `samples$result` specifically. See [model-based scoring](#) for examples.

*Returns:* The Task object (invisibly)

**Method** `set_metrics()`: Set the metrics that will be applied in `$measure()` (and thus `$eval()`).

*Usage:*

```
Task$set_metrics(metrics)
```

*Arguments:*

`metrics` A named list of functions that take in a vector of scores (as in `task$get_samples()$score`) and output a single numeric value.

*Returns:* The Task (invisibly)

**Method** `get_cost()`: The cost of this eval This is a wrapper around `ellmer's $token_usage()` function. That function is called at the beginning and end of each call to `$solve()` and `$score()`; this function returns the cost inferred by taking the differences in values of `$token_usage()` over time.

*Usage:*

```
Task$get_cost()
```

*Returns:* A tibble displaying the cost of solving and scoring the evaluation by model, separately for the solver and scorer.

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
Task$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

## See Also

[generate\(\)](#) for the simplest possible solver, and [scorer\\_model](#) and [scorer\\_detect](#) for two built-in approaches to scoring.

## Examples

```
if (!identical(Sys.getenv("ANTHROPIC_API_KEY"), "")) {
  # set the log directory to a temporary directory
  withr::local_envvar(VITALS_LOG_DIR = withr::local_tempdir())

  library(ellmer)
  library(tibble)

  simple_addition <- tibble(
    input = c("What's 2+2?", "What's 2+3?"),
    target = c("4", "5")
  )

  # create a new Task
  tsk <- Task$new(
    dataset = simple_addition,
    solver = generate(chat_anthropic(model = "claude-3-7-sonnet-latest")),
    scorer = model_graded_qa()
  )

  # evaluate the task (runs solver and scorer) and opens
  # the results in the Inspect log viewer (if interactive)
  tsk$eval()

  # $eval() is shorthand for:
  tsk$solve()
  tsk$score()
  tsk$measure()
  tsk$log()
  tsk$view()

  # get the evaluation results as a data frame
  tsk$get_samples()

  # view the task directory with $view() or vitals_view()
  vitals_view()
}
```

---

vitals\_bind

Concatenate task samples for analysis

---

## Description

Combine multiple [Task](#) objects into a single tibble for comparison.

This function takes multiple (optionally named) [Task](#) objects and row-binds their `$get_samples()` together, adding a task column to identify the source of each row. The resulting tibble nests additional columns into a metadata column and is ready for further analysis.

**Usage**

```
vitals_bind(...)
```

**Arguments**

... Task objects to combine, optionally named.

**Value**

A tibble with the combined samples from all tasks, with a task column indicating the source and a nested metadata column containing additional fields.

**Examples**

```
if (!identical(Sys.getenv("ANTHROPIC_API_KEY"), "")) {  
  # set the log directory to a temporary directory  
  withr::local_envvar(VITALS_LOG_DIR = withr::local_tempdir())  
  
  library(ellmer)  
  library(tibble)  
  
  simple_addition <- tibble(  
    input = c("What's 2+2?", "What's 2+3?"),  
    target = c("4", "5")  
  )  
  
  tsk1 <- Task$new(  
    dataset = simple_addition,  
    solver = generate(chat_anthropic(model = "claude-3-7-sonnet-latest")),  
    scorer = model_graded_qa()  
  )  
  tsk1$eval()  
  
  tsk2 <- Task$new(  
    dataset = simple_addition,  
    solver = generate(chat_anthropic(model = "claude-3-7-sonnet-latest")),  
    scorer = detect_includes()  
  )  
  tsk2$eval()  
  
  combined <- vitals_bind(model_graded = tsk1, string_detection = tsk2)  
}
```

**Description**

This function creates a standalone bundle of the Inspect viewer with log files that can be deployed statically. It copies the UI viewer files, log files, and generates the necessary configuration files.

**Usage**

```
vitals_bundle(log_dir = vitals_log_dir(), output_dir = NULL, overwrite = FALSE)
```

**Arguments**

log_dir	Path to the directory containing log files. Defaults to <code>vitals_log_dir()</code> .
output_dir	Path to the directory where the bundled output will be placed.
overwrite	Whether to overwrite an existing output directory. Defaults to <code>FALSE</code> .

**Value**

Invisibly returns the output directory path. That directory contains:

```
output_dir
|-- index.html
|-- robots.txt
|-- assets
    |-- ..
|-- logs
    |-- ..
```

`robots.txt` prevents crawlers from indexing the viewer. That said, many crawlers only read the `robots.txt` at the root directory of a package, so the file will likely be ignored if this folder isn't the root directory of the deployed page. `assets/` is the bundled source for the viewer. `logs/` is the `log_dir` as well as a `logs.json`, which is a manifest file for the directory.

**Deployment**

This function generates a directory that's ready for deployment to any static web server such as GitHub Pages, S3 buckets, or Netlify. If you have a connection to Posit Connect configured, you can deploy a directory of log files with the following:

```
tmp_dir <- withr::local_tempdir()
vitals_bundle(output_dir = tmp_dir, overwrite = TRUE)
rsconnect::deployApp(tmp_dir)
```

**Examples**

```
if (!identical(Sys.getenv("ANTHROPIC_API_KEY"), "")) {
  # set the log directory to a temporary directory
  withr::local_envvar(VITALS_LOG_DIR = withr::local_tempdir())

  library(ellmer)
  library(tibble)
```

```

simple_addition <- tibble(
  input = c("What's 2+2?", "What's 2+3?"),
  target = c("4", "5")
)

tsk <- Task$new(
  dataset = simple_addition,
  solver = generate(chat_anthropic(model = "claude-3-7-sonnet-latest")),
  scorer = model_graded_qa()
)

tsk$eval()

output_dir <- tempdir()
vitals_bundle(output_dir = output_dir, overwrite = TRUE)
}

```

---

vitals\_log\_dir

*The log directory*


---

## Description

vitals supports the VITALS\_LOG\_DIR environment variable, which sets a default directory to write logs to in [Task](#)'s `$eval()` and `$log()` methods.

## Usage

```
vitals_log_dir()
```

```
vitals_log_dir_set(dir)
```

## Arguments

`dir`                      A directory to configure the environment variable VITALS\_LOG\_DIR to.

## Value

Both `vitals_log_dir()` and `vitals_log_dir_set()` return the current value of the environment variable VITALS\_LOG\_DIR. `vitals_log_dir_set()` additionally sets it to a new value.

To set this variable in every new R session, you might consider adding it to your `.Rprofile`, perhaps with `usethis::edit_r_profile()`.



**Examples**

```
vitals_log_dir()

dir <- tempdir()

vitals_log_dir_set(dir)

vitals_log_dir()
```

---

vitals_view	<i>Interactively view local evaluation logs</i>
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**Description**

vitals bundles the Inspect log viewer, an interactive app for exploring evaluation logs. Supply a path to a directory of tasks written to json. For individual [Task](#) objects, use the `$view()` method instead.

**Usage**

```
vitals_view(dir = vitals_log_dir(), host = "127.0.0.1", port = 7576)
```

**Arguments**

dir	Path to a directory containing task eval logs.
host	Host to serve on. Defaults to "127.0.0.1".
port	Port to serve on. Defaults to 7576, one greater than the Python implementation.

**Value**

The server object (invisibly)

**Examples**

```
if (!identical(Sys.getenv("ANTHROPIC_API_KEY"), "")) {
  # set the log directory to a temporary directory
  withr::local_envvar(VITALS_LOG_DIR = withr::local_tempdir())

  library(ellmer)
  library(tibble)

  simple_addition <- tibble(
    input = c("What's 2+2?", "What's 2+3?"),
    target = c("4", "5")
  )

  # create a new Task
  tsk <- Task$new(
    dataset = simple_addition,
```

```
    solver = generate(chat_anthropic(model = "claude-3-7-sonnet-latest")),
    scorer = model_graded_qa()
  )

  # evaluate the task (runs solver and scorer) and opens
  # the results in the Inspect log viewer (if interactive)
  tsk$eval()

  # $eval() is shorthand for:
  tsk$solve()
  tsk$score()
  tsk$measure()
  tsk$log()
  tsk$view()

  # get the evaluation results as a data frame
  tsk$get_samples()

  # view the task directory with $view() or vitals_view()
  vitals_view()
}
```

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