

Package ‘bracketeer’

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Title Tournament Generator

Version 0.1.1

Description Create and manage tournament brackets for various competition formats including single elimination, double elimination, round robin, Swiss system, and group-stage-to-knockout tournaments. Provides tools for seeding, scheduling, recording results, and tracking standings.

URL <https://github.com/bbtheo/bracketeer>,
<https://bbtheo.github.io/bracketeer/>

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`add_stage` *Add a stage to a tournament specification*

Description

Add a stage to a tournament specification

Usage

```
add_stage(spec, stage_id, stage)
```

Arguments

<code>spec</code>	A <code>tournament_spec</code> object.
<code>stage_id</code>	Unique stage identifier.
<code>stage</code>	Stage definition object.

Value

Updated `tournament_spec`.

`add_transition` *Add a transition between stages*

Description

Add a transition between stages

Usage

```
add_transition(
  spec,
  from,
  to,
  rule = NULL,
  seeding = "by_source_rank",
  take = NULL,
  priority = 1L,
  consume = TRUE,
  allow_overlap = FALSE,
  transition_id = NULL
)
```

Arguments

spec	A tournament_spec object.
from	Source stage ID, or from_previous().
to	Destination stage ID.
rule	Transition rule object (optional for MVP graph wiring).
seeding	Seeding policy label.
take	Selector object for transition participant selection.
priority	Transition resolution priority.
consume	Whether selected participants are consumed.
allow_overlap	Whether overlap is allowed across transitions.
transition_id	Transition ID. If NULL, deterministic auto-ID is used.

Value

Updated tournament_spec.

advance	<i>Advance tournament to next round</i>
---------	---

Description

Check if current round is complete and update bracket state.

Usage

```
advance(x, stage = NULL, ...)

## S3 method for class 'bracket'
advance(x, stage = NULL, ...)

## S3 method for class 'double_elim_bracket'
advance(x, stage = NULL, ...)

## S3 method for class 'group_stage_knockout'
advance(x, stage = NULL, ...)

## S3 method for class 'single_elim_bracket'
advance(x, stage = NULL, ...)

## S3 method for class 'swiss_bracket'
advance(x, stage = NULL, ...)

## S3 method for class 'tournament'
advance(x, stage = NULL, ...)
```

Arguments

x	A bracket object.
stage	Optional stage identifier for tournament methods.
...	Additional method-specific arguments.

Value

Updated bracket object

bottom_n	<i>Select bottom ranked participants from source standings</i>
----------	--

Description

Select bottom ranked participants from source standings

Usage

bottom_n(n)

Arguments

n	Positive integer count.
---	-------------------------

Value

A bracketeer_selector object.

bottom_per_group	<i>Select bottom ranked participants per group</i>
------------------	--

Description

Select bottom ranked participants per group

Usage

bottom_per_group(n)

Arguments

n	Positive integer count per group.
---	-----------------------------------

Value

A bracketeer_selector object.

build	<i>Build a live tournament runtime from a specification</i>
-------	---

Description

Build a live tournament runtime from a specification

Usage

```
build(x, participants)
```

Arguments

`x` A bracketeer_spec or tournament_spec object.
`participants` Character vector of participant names, or a data.frame with a name column.

Value

A tournament runtime object.

Examples

```
my_spec <- spec() |>
  swiss("open", rounds = 3) |>
  single_elim("playoffs", take = top_n(4))

# Materialize with participants
trn <- build(my_spec, paste("Team", LETTERS[1:8]))
```

build_tournament	<i>Build a tournament runtime from a tournament specification</i>
------------------	---

Description

Build a tournament runtime from a tournament specification

Usage

```
build_tournament(spec, participants)
```

Arguments

`spec` A tournament_spec object.
`participants` Character vector of participant names, or a data.frame with a name column.

Value

A tournament runtime object.

compute_tournament_rankings
Compute tournament rankings

Description

Compute tournament rankings

Usage

compute_tournament_rankings(tournament)

Arguments

tournament A tournament object.

Value

Data frame with rank and participant, or NULL when unavailable.

double_elim *Create a double elimination bracket*

Description

Double elimination tournament with winners and losers brackets.

Usage

double_elim(participants, ...)

Arguments

participants Character vector of participant names, or a data.frame with a 'name' column and optional 'seed' column.

... Additional arguments passed to bracket constructors or tournament stage-verb dispatch methods.

Value

A double_elim_bracket object

Examples

```
# Double elimination bracket (two losses to be eliminated)
trn <- tournament(paste("Team", LETTERS[1:8])) |>
  double_elim("bracket")

# After Swiss rounds
trn <- tournament(paste("Team", LETTERS[1:16])) |>
  swiss("open", rounds = 4) |>
  double_elim("playoffs", take = top_n(8))
```

export_matches	<i>Export tournament matches across materialized stages</i>
----------------	---

Description

Export tournament matches across materialized stages

Usage

```
export_matches(tournament)
```

Arguments

tournament A tournament object.

Value

Data frame with stage-tagged matches and compound match IDs.

export_standings	<i>Export tournament standings across materialized stages</i>
------------------	---

Description

Export tournament standings across materialized stages

Usage

```
export_standings(tournament)
```

Arguments

tournament A tournament object.

Value

Data frame with stage-tagged standings.

export_tournament_log *Export tournament routing log entries*

Description

Export tournament routing log entries

Usage

```
export_tournament_log(tournament)
```

Arguments

tournament A tournament object.

Value

Data frame with one row per routing log entry.

filter_by *Select participants using a custom predicate function*

Description

Select participants using a custom predicate function

Usage

```
filter_by(fn)
```

Arguments

fn A transition predicate function.

Value

A bracketeer_selector object.

from_previous	<i>Resolve source stage from most recently defined stage order</i>
---------------	--

Description

Resolve source stage from most recently defined stage order

Usage

from_previous()

Value

Sentinel object to be resolved by add_transition().

get_ready_stages	<i>Get stage IDs currently ready to advance</i>
------------------	---

Description

Get stage IDs currently ready to advance

Usage

get_ready_stages(tournament)

Arguments

tournament A tournament object.

Value

Character vector of stage IDs in deterministic order.

get_routing_log	<i>Get transition routing log entries</i>
-----------------	---

Description

Get transition routing log entries

Usage

```
get_routing_log(tournament)
```

Arguments

tournament A tournament object.

Value

List of routing log entries in append order.

group_stage_knockout	<i>Create a group stage followed by knockout bracket</i>
----------------------	--

Description

Create a group stage followed by knockout bracket

Usage

```
group_stage_knockout(participants, ...)
```

Arguments

participants Character vector of participant names, or a data.frame with a 'name' column and optional 'seed' column.

... Additional arguments passed to bracket constructors or tournament stage-verb dispatch methods.

Value

A group_stage_knockout object

<code>is_stage_complete</code>	<i>Check whether a stage is complete</i>
--------------------------------	--

Description

Check whether a stage is complete

Usage

```
is_stage_complete(x, ...)
```

Arguments

<code>x</code>	A stage bracket object or tournament.
<code>...</code>	Additional method-specific arguments.

Value

Logical scalar.

<code>losers</code>	<i>Select losers from a source stage by elimination round</i>
---------------------	---

Description

Select losers from a source stage by elimination round

Usage

```
losers(round = "all", stage = NULL, ordering = "elimination_round")
```

Arguments

<code>round</code>	One of "all", "latest", or an integer vector of rounds.
<code>stage</code>	Optional stage selector (reserved for future use).
<code>ordering</code>	Ordering mode: "elimination_round", "source_seed", or "as_recorded".

Value

A `bracketeer_selector` object.

matches	<i>Inspect tournament matches</i>
---------	-----------------------------------

Description

Inspect tournament matches

Usage

```
matches(x, stage = NULL, status = "pending")

## S3 method for class 'tournament'
matches(x, stage = NULL, status = "pending")
```

Arguments

x	A tournament object.
stage	Optional stage identifier.
status	One of "pending", "complete", or "all".

Value

Data frame of matches.

Examples

```
trn <- tournament(c("A", "B", "C", "D")) |>
  round_robin("groups")

# Get pending matches
matches(trn, "groups")

# Get all matches across stages
matches(trn, status = "all")
```

new_selector	<i>Construct a selector object for transition take = routing</i>
--------------	--

Description

Construct a selector object for transition take = routing

Usage

```
new_selector(kind, params = list(), evaluator)
```

Arguments

kind	Selector kind label.
params	Selector parameters list.
evaluator	Function implementing selection logic.

Value

A bracketeer_selector object.

previous_stage	<i>Resolve source stage from the immediately preceding stage</i>
----------------	--

Description

Alias for from_previous() used by the rewritten stage-verb API.

Usage

```
previous_stage()
```

Value

Sentinel object to be resolved by transition wiring.

Examples

```
teams <- paste("Team", LETTERS[1:8])

# Implicit: defaults to previous_stage()
trn <- tournament(teams) |>
  swiss("open", rounds = 3) |>
  single_elim("playoffs", take = top_n(4))

# Explicit: useful for branching
trn <- tournament(teams) |>
  round_robin("groups") |>
  single_elim("finals", from = previous_stage(), take = top_n(2))
```

```
print.group_stage_knockout
    Print bracketeer objects
```

Description

Print bracketeer objects

Usage

```
## S3 method for class 'group_stage_knockout'
print(x, ...)

## S3 method for class 'bracket_match'
print(x, ...)

## S3 method for class 'bracket'
print(x, ...)

## S3 method for class 'double_elim_bracket'
print(x, ...)

## S3 method for class 'tournament'
print(x, ...)
```

Arguments

x	A bracket or match object.
...	Additional arguments (unused).

Value

The object, invisibly.

```
qualify_losers    Select losers from a source stage by elimination round
```

Description

Returns a transition rule function intended for use with `add_transition()`.

Usage

```
qualify_losers(round = "all", stage = NULL, ordering = "elimination_round")
```

Arguments

round	One of "all", "latest", or an integer vector of elimination rounds to include.
stage	Optional stage selector (reserved for future use).
ordering	Ordering mode: "elimination_round", "source_seed", or "as_recorded".

Value

A transition rule function.

qualify_remaining	<i>Select all entrants remaining in the transition source pool</i>
-------------------	--

Description

Returns a transition rule function intended for use with `add_transition()`. During `advance()`, this selects all participants still available from the source stage after higher-priority consuming transitions have resolved.

Usage

```
qualify_remaining()
```

Value

A transition rule function.

rankings	<i>Get tournament rankings</i>
----------	--------------------------------

Description

Get tournament rankings

Usage

```
rankings(tournament)
```

Arguments

tournament	A tournament object.
------------	----------------------

Value

Data frame of rankings.

remaining	<i>Select entrants remaining in the current transition source pool</i>
-----------	--

Description

Select entrants remaining in the current transition source pool

Usage

```
remaining()
```

Value

A bracketeer_selector object.

result	<i>Fluent tournament result entry helper</i>
--------	--

Description

Convenience wrapper around `set_result()` for tournament workflows.

Usage

```
result(tournament, stage, match, score, overwrite = FALSE, auto_advance = NULL)
```

Arguments

tournament	A tournament object.
stage	Stage identifier containing the match.
match	Match identifier inside stage.
score	Numeric vector score payload. For a single match, pass <code>c(score1, score2)</code> .
overwrite	Logical; forwards to <code>set_result(..., overwrite = ...)</code> .
auto_advance	Optional logical override. If NULL, defaults to the tournament's <code>auto_advance</code> setting when present.

Value

Updated tournament object.

Examples

```
teams <- c("A", "B", "C", "D")
trn <- tournament(teams) |>
  round_robin("groups")

# Enter a single result
trn <- result(trn, "groups", match = 1, score = c(2, 1))
```

 results

Fluent tournament batch result entry helper

Description

Convenience wrapper for entering multiple match results for one stage.

Usage

```
results(tournament, stage, df, overwrite = FALSE, auto_advance = NULL)
```

Arguments

tournament	A tournament object.
stage	Stage identifier containing the matches.
df	Data frame with required columns: match, score1, score2.
overwrite	Logical; forwards to <code>result(..., overwrite = ...)</code> .
auto_advance	Optional logical override for the final row. If NULL, defaults to the tournament's <code>auto_advance</code> setting when present.

Value

Updated tournament object.

Examples

```
teams <- c("A", "B", "C", "D")
trn <- tournament(teams) |>
  round_robin("groups")

m <- matches(trn, "groups")
trn <- results(trn, "groups", data.frame(
  match = m$match_id,
  score1 = c(2, 1, 3),
  score2 = c(1, 2, 0)
))
```

round_robin	<i>Create a round robin tournament</i>
-------------	--

Description

Round robin tournament where each participant plays every other participant.

Usage

```
round_robin(participants, ...)
```

Arguments

participants	Character vector of participant names, or a data.frame with a 'name' column and optional 'seed' column.
...	Additional arguments passed to bracket constructors or tournament stage-verb dispatch methods.

Value

A round_robin_bracket object

Examples

```
# Simple round robin
trn <- tournament(c("A", "B", "C", "D")) |>
  round_robin("groups")

# Multiple groups (World Cup style)
teams <- paste("Team", sprintf("%02d", 1:32))
trn <- tournament(teams) |>
  round_robin("groups", groups = 8)
```

routing_log	<i>Get transition routing log</i>
-------------	-----------------------------------

Description

Get transition routing log

Usage

```
routing_log(tournament)
```

Arguments

tournament	A tournament object.
------------	----------------------

Value

Data frame audit trail.

set_outcome	<i>Configure tournament outcome depth</i>
-------------	---

Description

Configure tournament outcome depth

Usage

```
set_outcome(spec, track_placements = 1L)
```

Arguments

spec	A tournament_spec object.
track_placements	Number of placements to track.

Value

Updated tournament_spec.

single_elim	<i>Create a single elimination bracket</i>
-------------	--

Description

Single elimination (knockout) tournament where losing a match eliminates the participant from the tournament.

Usage

```
single_elim(participants, ...)
```

Arguments

participants	Character vector of participant names, or a data.frame with a 'name' column and optional 'seed' column.
...	Additional arguments passed to bracket constructors or tournament stage-verb dispatch methods.

Value

A single_elim_bracket object

Examples

```
# Simple knockout bracket
trn <- tournament(paste("Team", LETTERS[1:8])) |>
  single_elim("bracket")

# Chain after group stage
trn <- tournament(c("A", "B", "C", "D")) |>
  round_robin("groups") |>
  single_elim("finals", take = top_n(2))
```

single_elim_stage	<i>Create a stage specification</i>
-------------------	-------------------------------------

Description

Stage specifications describe how to materialize a stage bracket from a participant set inside a `tournament_spec` graph.

Usage

```
single_elim_stage(
  seed = TRUE,
  third_place = FALSE,
  best_of = NULL,
  reseed = FALSE
)

double_elim_stage(
  seed = TRUE,
  grand_final_reset = TRUE,
  best_of = NULL,
  reseed = FALSE
)

round_robin_stage(
  home_away = FALSE,
  n_rounds = NULL,
  best_of = NULL,
  tiebreakers = NULL,
  groups = NULL
)

swiss_stage(
  rounds = NULL,
  seed = TRUE,
  allow_ties = TRUE,
  bye_points = 1,
```

```

    best_of = NULL,
    tiebreakers = NULL
)

group_stage_knockout_stage(
    groups = 2,
    advance_per_group = 2,
    seed = TRUE,
    group_home_away = FALSE,
    group_best_of = NULL,
    group_tiebreakers = NULL,
    knockout_type = "single_elim",
    knockout_seed = TRUE,
    third_place = FALSE,
    grand_final_reset = TRUE,
    knockout_best_of = NULL
)

two_leg_stage(
    seed = TRUE,
    third_place = FALSE,
    away_goals = TRUE,
    reseed = FALSE
)

```

Arguments

seed	Logical or character seed method.
third_place	Logical; include third-place match.
best_of	Optional best-of value (must be odd).
reseed	Logical; reseed between rounds for supported formats.
grand_final_reset	Logical; allow grand-final reset.
home_away	Logical; whether repeated pairings alternate home/away.
n_rounds	Number of round-robin cycles.
tiebreakers	Ordered tiebreakers.
groups	Number of groups.
rounds	Number of Swiss rounds.
allow_ties	Logical; whether ties are allowed.
bye_points	Points awarded for a bye.
advance_per_group	Number of qualifiers per group.
group_home_away	Logical; home/away behavior in groups.
group_best_of	Optional best-of in groups.

group_tiebreakers	Ordered group-stage tiebreakers.
knockout_type	Knockout format: "single_elim" or "double_elim".
knockout_seed	Logical or character seed method for knockout.
knockout_best_of	Optional knockout best-of value.
away_goals	Logical; enable away-goals tiebreaker.

Value

A stage_spec object.

slice_per_group	<i>Select an inclusive standings slice per group</i>
-----------------	--

Description

Select an inclusive standings slice per group

Usage

slice_per_group(from, to)

Arguments

from	Positive integer starting position.
to	Positive integer ending position (must be >= from).

Value

A bracketeer_selector object.

slice_range	<i>Select an inclusive standings slice</i>
-------------	--

Description

Select an inclusive standings slice

Usage

slice_range(from, to)

Arguments

from Positive integer starting position.
to Positive integer ending position (must be \geq from).

Value

A bracketeer_selector object.

spec	<i>Create a bracketeer tournament specification</i>
------	---

Description

Create a bracketeer tournament specification

Usage

```
spec()
```

Value

A bracketeer_spec object.

Examples

```
# Create a reusable tournament blueprint
my_spec <- spec() |>
  round_robin("groups") |>
  single_elim("finals", take = top_n(2))

# Build with different participant lists
trn1 <- build(my_spec, c("A", "B", "C", "D"))
trn2 <- build(my_spec, c("W", "X", "Y", "Z"))
```

split_stage	<i>Add multiple transitions from one source stage</i>
-------------	---

Description

Convenience sugar for branching stage fan-out. Compiles into deterministic add_transition() calls.

Usage

```
split_stage(
  spec,
  from,
  into,
  priority_start = 1L,
  consume = TRUE,
  allow_overlap = FALSE,
  seeding = "by_source_rank"
)
```

Arguments

spec	A tournament_spec object.
from	Source stage ID, or from_previous().
into	Named list mapping destination stage IDs to transition rules, or branch configs with a required rule field.
priority_start	Starting priority for branch transitions when a branch does not explicitly provide priority.
consume	Default consume value for branches.
allow_overlap	Default allow_overlap value for branches.
seeding	Default seeding policy for branches.

Value

Updated tournament_spec.

stage_status	<i>Inspect tournament stage status</i>
--------------	--

Description

Inspect tournament stage status

Usage

```
stage_status(tournament)
```

Arguments

tournament	A tournament object.
------------	----------------------

Value

Data frame with one row per stage.

standings	<i>Inspect tournament standings</i>
-----------	-------------------------------------

Description

Inspect tournament standings

Usage

```
standings(x, stage = NULL)

## S3 method for class 'tournament'
standings(x, stage = NULL)
```

Arguments

x	A tournament object.
stage	Optional stage identifier.

Value

Data frame of standings.

Examples

```
trn <- tournament(c("A", "B", "C", "D")) |>
  round_robin("groups")

# Enter some results
m <- matches(trn, "groups")
trn <- result(trn, "groups", m$match_id[1], score = c(2, 1))

# View current standings
standings(trn, "groups")
```

summary	<i>Summarize bracketeer objects</i>
---------	-------------------------------------

Description

Summarize bracketeer objects

Usage

```
## S3 method for class 'bracket'
summary(object, ...)
```

Arguments

object A bracket object.
 ... Additional arguments (unused).

Value

The object, invisibly.

swiss	<i>Create a Swiss-system tournament</i>
-------	---

Description

Swiss system pairs participants by similar records each round.

Usage

```
swiss(participants, ...)
```

Arguments

participants Character vector of participant names, or a data.frame with a 'name' column and optional 'seed' column.
 ... Additional arguments passed to bracket constructors or tournament stage-verb dispatch methods.

Value

A swiss_bracket object

Examples

```
# Swiss system followed by top-cut playoffs
teams <- paste("Team", LETTERS[1:16])
trn <- tournament(teams) |>
  swiss("open", rounds = 5) |>
  single_elim("playoffs", take = top_n(8))
```

teardown	<i>Teardown tournament state</i>
----------	----------------------------------

Description

For tournament runtimes, this un-materializes a stage and its downstream dependents so upstream results can be corrected and replayed.

Usage

```
teardown(x, stage = NULL, ...)

## S3 method for class 'bracket'
teardown(x, stage = NULL, ...)

## S3 method for class 'tournament'
teardown(x, stage = NULL, ...)
```

Arguments

x	A bracket or tournament object.
stage	Stage identifier to teardown (tournament method).
...	Additional method-specific arguments.

Value

Updated object.

top_n	<i>Select top ranked participants from source standings</i>
-------	---

Description

Select top ranked participants from source standings

Usage

```
top_n(n)
```

Arguments

n	Positive integer count.
---	-------------------------

Value

A bracketeer_selector object.

Examples

```
# Route top 4 to playoffs
trn <- tournament(paste("Team", LETTERS[1:8])) |>
  swiss("open", rounds = 3) |>
  single_elim("playoffs", take = top_n(4))
```

top_per_group	<i>Select top ranked participants per group</i>
---------------	---

Description

Select top ranked participants per group

Usage

```
top_per_group(n)
```

Arguments

n Positive integer count per group.

Value

A bracketeer_selector object.

Examples

```
# World Cup style: 8 groups, top 2 per group advance
teams <- paste("Team", sprintf("%02d", 1:32))
trn <- tournament(teams) |>
  round_robin("groups", groups = 8) |>
  single_elim("knockout", take = top_per_group(2))
```

tournament	<i>Create an empty live tournament pipeline</i>
------------	---

Description

Create an empty live tournament pipeline

Usage

```
tournament(participants, auto_advance = TRUE)
```

Arguments

`participants` Character vector of participant names, or a data.frame with a name column.
`auto_advance` Logical scalar. Stored as the runtime default for future result-entry helpers.

Value

A tournament runtime object with no stages materialized yet.

Examples

```
# Simple tournament with auto-advance
teams <- c("Lions", "Bears", "Eagles", "Wolves")
trn <- tournament(teams) |>
  round_robin("groups") |>
  single_elim("finals", take = top_n(2))

# Manual advance mode
trn_manual <- tournament(teams, auto_advance = FALSE) |>
  swiss("open", rounds = 3)
```

<code>tournament_spec</code>	<i>Create a tournament specification graph</i>
------------------------------	--

Description

Construct a multi-stage tournament specification object.

Usage

```
tournament_spec()
```

Value

A `tournament_spec` object.

<code>two_leg</code>	<i>Create a two-leg stage or bracket</i>
----------------------	--

Description

Alias for `two_leg_knockout()` used by the tournament stage-verb API.

Usage

```
two_leg(participants, ...)
```

Arguments

participants Participants, a spec object, or a tournament object.
 ... Additional arguments forwarded to `two_leg_knockout()`.

Value

A bracket, spec, or tournament depending on participants.

Examples

```
# Two-leg knockout (Champions League style)
teams <- paste("Club", sprintf("%02d", 1:16))
trn <- tournament(teams) |>
  round_robin("groups", groups = 4) |>
  two_leg("knockouts", take = top_per_group(2))
```

validate	<i>Validate a tournament spec preflight</i>
----------	---

Description

Validate a tournament spec preflight

Usage

```
validate(x, n)
```

Arguments

x A bracketeer_spec or tournament_spec object.
 n Participant count for feasibility checks.

Value

A preflight validation summary.

Examples

```
my_spec <- spec() |>
  round_robin("groups", groups = 4) |>
  single_elim("knockout", take = top_per_group(2))

# Check if 16 participants can work
validate(my_spec, n = 16)
```

validate_tournament *Dry-run preflight validation for tournament flow feasibility*

Description

Validates a tournament_spec against a participant count without running a live tournament. This preflight catches infeasible routing paths and stage size mismatches early.

Usage

```
validate_tournament(spec, n_participants)
```

Arguments

spec A tournament_spec object.
n_participants Positive integer participant count.

Value

A tournament_validation summary list.

validate_tournament_spec
 Validate a tournament specification

Description

Validate a tournament specification

Usage

```
validate_tournament_spec(spec)
```

Arguments

spec A tournament_spec object.

Value

The validated tournament_spec.

winner	<i>Get tournament winner</i>
--------	------------------------------

Description

Get tournament winner

Usage

```
winner(tournament)
```

Arguments

tournament A tournament object.

Value

Winner name or NA_character_.

Examples

```
teams <- c("A", "B", "C", "D")
trn <- tournament(teams) |>
  round_robin("groups") |>
  single_elim("finals", take = top_n(2))

# ... enter all results ...

# Get the champion
winner(trn)
```

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