- a text column showing completion percentage (TextColumn)
- an estimated-time-remaining column (TimeRemainingColumn)

If the Progress instance is created without passing a columns argument, the default columns defined here will be used.

You can also create a Progress instance using custom columns before and/or after the defaults, as in this example:

progress = Progress(
SpinnerColumn(), *Progress.get_default_columns(), "Elapsed:", TimeElapsedColumn(),

)

This code shows the creation of a Progress display, containing a spinner to the left, the default columns, and a labeled elapsed time column.

Return type
Tuple[ProgressColumn, ...]

`get_renderable`()

Get a renderable for the progress display.

Return type
ConsoleRenderable | RichCast | str

`get_renderables`()

Get a number of renderables for the progress display.

Return type
Iterable[ConsoleRenderable | RichCast | str]

`make_tasks_table`(*tasks*)

Get a table to render the Progress display.

Parameters
tasks (*Iterable[Task]*) – An iterable of Task instances, one per row of the table.

Returns
A table instance.

Return type
Table

open(*file: str | PathLike[str] | bytes*, *mode: Literal['rb']*, *buffering: int = -1*, *encoding: str | None = None*, *errors: str | None = None*, *newline: str | None = None*, ***, *total: int | None = None*, *task_id: TaskID | None = None*, *description: str = 'Reading...'*) → BinaryIO

open(*file: str | PathLike[str] | bytes*, *mode: Literal['r', 'rt']*, *buffering: int = -1*, *encoding: str | None = None*, *errors: str | None = None*, *newline: str | None = None*, ***, *total: int | None = None*, *task_id: TaskID | None = None*, *description: str = 'Reading...'*) → TextIO

Track progress while reading from a binary file.

Parameters

- **path** (*Union[str, PathLike[str]]*) – The path to the file to read.
- **mode** (*str*) – The mode to use to open the file. Only supports "r", "rb" or "rt".
- **buffering** (*int*) – The buffering strategy to use, see `io.open()`.
- **encoding** (*str, optional*) – The encoding to use when reading in text mode, see `io.open()`.