000

```
@dataclass(frozen=True)
class DecodingOptions:
   # whether to perform X->X "transcribe" or X->English "translate"
   task: str = "transcribe"
   # language that the audio is in; uses detected language if None
   language: Optional[str] = None
   # sampling-related options
   temperature: float = 0.0
   sample_len: Optional[int] = None # maximum number of tokens to sample
   best_of: Optional[int] = None # number of independent sample trajectories, if t > 0
   beam_size: Optional[int] = None # number of beams in beam search, if t == 0
   patience: Optional[float] = None # patience in beam search (arxiv:2204.05424)
   # "alpha" in Google NMT, or None for length norm, when ranking generations
   # to select which to return among the beams or best-of-N samples
   length_penalty: Optional[float] = None
   # text or tokens to feed as the prompt or the prefix; for more info:
   # https://github.com/openai/whisper/discussions/117#discussioncomment-3727051
   prompt: Optional[Union[str, List[int]]] = None # for the previous context
   prefix: Optional[Union[str, List[int]]] = None # to prefix the current context
   # list of tokens ids (or comma-separated token ids) to suppress
   # "-1" will suppress a set of symbols as defined in `tokenizer.non_speech_tokens()`
   suppress_tokens: Optional[Union[str, Iterable[int]]] = "-1"
   suppress_blank: bool = True # this will suppress blank outputs
   # timestamp sampling options
   without_timestamps: bool = False # use < |notimestamps| > to sample text tokens only
   max_initial_timestamp: Optional[float] = 1.0
   # implementation details
   fp16: bool = True # use fp16 for most of the calculation
```