

@rudifa working on <https://github.com/cue-lang/cue/issues/2567>

My opinion:

- cue fmt (parser + formatter) should respect the author's intended comments purpose

My understanding of cue comment kinds and what to do about them:

- . Inline comment (follows a syntax element and terminates the line)
  - + user says something about the syntax element preceding it
    - cue fmt should not separate the comment from its element (should not insert anything between them; should not move the comment to another line)
- . Doc comment (one or more comment lines directly above a syntax element, without an intervening blank line)
  - + user says something about the element that follows
    - formatter should not separate the doc comment from the element, e.g. in simplifying the cue expression, requested with -s option or not
- . Floating comment or group (one or more contiguous comment lines, separated from the next syntax element by a blank line, possibly not separated from the preceding element)
  - + user says something about the cue file or a part of the file
    - cue fmt should not attach the comment to the preceding element

<i>comment kind</i>	<i>cue implementation + observed behaviour</i>	<i>opinions</i>
<b>Line comment</b> (follows a syntax element and terminates the line)	Parser attaches it to a nearby Node (sometimes the Node that contains the syntax element)  In several issues, the formatter misplaces the comment	Line comment should perhaps be attached to the Node representing the syntax element immediately preceding it, not to the parent Node of the element
<b>Doc comment or group</b> (one or more comment lines directly above a syntax element, without an intervening blank line)	Mostly formatted correctly  Investigate: case of Doc comment misplaced in simplification	
<b>Floating</b> comment or group (one or more contiguous comment lines, separated from the next syntax element by a blank line, possibly not separated from the preceding element)	Parser identifies it as !(Line    Doc)  Investigate: case of comment following an import statement that `cur fmt` places into the import clause	It might be necessary to create a separate Node to contain the CommentGroup in this case