U23SA861Y: well I don't know about the pipeline but using the base decoder package

U23SA861Y: `EntryDecoder = JD.map2 RolodexEntry (JD.field "id" <a href="http://JD.int/JD.int/] (JD.field "name" JD.string) \times (JD.field "id" <a href="http://JD.int/JD.int/JD.int/">http://JD.int/

U23SA861Y: `CategoryDecoder = JD.map2 RolodexList (JD.field "category" JD.string) (JD.field "list" (JD.list

EntryDecoder))`

U23SA861Y: `ListDecoder = JD.list CategoryDecoder`

U23SA861Y: where JD is `import Json.Decode as JD`

U5ABF3BH7: <@U23SA861Y> Thanks a lot!

U5HM74BD0: I asked a variant of this question a couple days ago. But it's a little more complicated than what I asked.

I have a `List` of records like this: `[{ab = 3, hits=2}, {ab=2, hits=1}]`. I'd like to transform that list into a tuple of records: `({ab=3, hits=2}, {ab=2, hits=1})`. How can I write a function to do that? If the list is longer than 2 records, I can default it

out to a dummy tuple: `({ab=0, hits=0}, {ab=0, hits=0})`.

U4872964V: and if the list is shorter?

U4872964V: Sound like you just should do a `case` on the list

U23SA861Y: a tuples size needs to be known at compile time

U5HM74BD0: When I put this function into the elm-repl, I'm not getting it to compile:```> listToTuple I = \ case I of \

U23SA861Y: you can't do it for a variable length list

U4872964V : you can't pattern match like that

U23SA861Y: if you know the exact size of the list at compile time you can write a function for it but tuples cannot be dynamically sized at run time

U4872964V: but it looks like you don't care about the record contents anyway

U4872964V: so just do `case I of a :: b :: [] -> (a, b)`

U5HM74BD0 : <@U4872964V> Your version does work for me in the repl. But when i annotate it in my program, I get that elm-make compilation error I mentioned a little while ago. Let me see here...

U23SA861Y: why are you trying to do this, it seems like there should be a better way?

U4872964V: that is always a good question: slightly\_smiling\_face:

U5HM74BD0: I am parsing a JSON object. That object comes in as a list, but my model represents them as a tuple.

U23SA861Y: is the list a fixed known size or is it variable

U5HM74BD0: Maybe I need to rethink the model? I know, though, that there will be exactly two items needed for this piece as far as the application is concerned. I'm representing my 2 sons batting averages in the app: "ab" is at-bats, and "hits" is number of hits for each game....

U23SA861Y: are you going to have another kid?

U5HM74BD0::slightly smiling face: Haha!!

U23SA861Y: that sound like a many problem, I would leave it as a list

U5EL672TU: zero, one, infinite kids

U5HM74BD0: Alright, I will rework things. I think you all are right, even though there's \*no way\* we're going to have any more kids!

U23SA861Y: well, not intentionally anyway

U23SA861Y::stuck\_out\_tongue:

U5HM74BD0 : I'm too old for that stuff! Too old to learn a new language like Elm, perhaps, much less too old for having another kid!!

U57KYFW67: Most of the difficulty isn't in the learning of a functional language. It's in the unlearning of all the object-oriented crap: stuck out tongue:

U23SA861Y: Its funny because if you were taught FP first, then imperative would seem absolutely nuts

U57KYFW67: So often, "How do I do X" has to be answered with "?"

U57KYFW67: (mu)

U5HM74BD0 : <@U57KYFW67> Friend, I've got to unlearn OO, along with procedural stuff like Basic I learned back in the 80s... Got a lot to unlearn here, folks!

U57KYFW67: hah

U57KYFW67: It's a very Zen experience. You have to think less about "Doing" and more about "Being". What things are, rather than how things change.

U23SA861Y: From a mathmatics background it makes alot of sense because nearly all of mathematics is statements U4872964V: declarative programming

U5HM74BD0: So, when I come home in the evenings, I need to unlearn OO and such and learn some FP (using Elm), which is great. Except that OO is what I do during the day, so I go and relearn it again! Ha, it's a vicious cycle. One day I'll retire and stroll along the beach with my grandkids and think, "yep, this is what all that madness was about.

Basic->OO->FP->OO->FP...." Just so that I could enjoy a nice week at the beach with the little ones....

U23SA861Y: Unless you have an OO language that lets you be sneaky and start including some FP stuff in it

U57KYFW67: It may seem like infinite recursion, but it actually converges on a fixedpoint: a very practical viewpoint where you recognize the advantages and disadvantages of each way of thinking.

U5HM74BD0: <@U57KYFW67> I don't doubt you at all. But wow, were these the simple days: ```10 x=1

20 print "The number is " + x

30 x = x + 1

40 goto 20```

And watch the counter scroll off the screen!

To your point, though, FP does feel a lot like mathematics, algebra 2 and such. I'm finding myself coding much quicker in Elm, even if I screw up by representing the model wrong.

U57KYFW67: I teach math. And one of the things that I find the FP community is a little misleading over is how "mathematical" FP is. I think math tends to signal to people that it's very numeric, but a better word may be "logical"....

but of course, the word "logical" is totally wrong too!

U57KYFW67: It is the logic of mathematics, but with none of the numbers.

U0K7EBT3J: <@U57KYFW67> what about the name "discrete mathematics"?

U57KYFW67: Which I think most people would find a little more palettable

U0K7EBT3J: i like to think it is "discrete" cause it doesn't have numbers: stuck\_out\_tongue:

U57KYFW67: I actually had my current employer ask me (out of curiosity) what Discrete Mathematics was during my interview.

U23SA861Y: when I say it's more mathmatical I mean that you find things like this f(x) = x+2,  $g(k,x) = x^k(x)$  in math as opposed to 'take a number, now increment it, now put it aside, now take another number'

U23SA861Y: and you most definately don't side up with f(x) = x + y in math unless y is a constant

U0K7EBT3J: more declarative then imperative then, borrowing some math symbols