U051SS2EU: right, it's a parser machinery basically

U051SS2EU: we're at the point in this convo where I'd probably have to read more code to answer more questions though

U5ZAJ15P0: Luckily for you I don't have more guestions at the moment: smile:

U051SS2EU: like whether there's an actual unquote method somewhere in Compiler.java or if it's entirely a figment of syntax-quote

U5ZAJ15P0: For now I think I am contempt with the answer that clojure.core/unquote is not a function, but something that has a special interpretation within a syntax quote

U051SS2EU: there's this, but I am not totally sure what it means - UNQUOTE used to be defined as a special symbol but now it is commented out U1KK3BW3W: Ah, to be more specific, I am using `lein eastwood '{:add-linters [:unused-namespaces]:namespaces [:source-paths]:exclude-linters [:unlimited-use]}'` as my command, and I get an error for a namespaced spec (so you might be right that a namespaced keyword would not create problems, sorry!).

U060FKQPN: unquote never makes it to the compiler

U1KK3BW3W: ```== Eastwood 0.2.4 Clojure 1.9.0-alpha17 JVM 1.8.0_121Exception in thread "main" clojure.lang.ExceptionInfo: Invalid token: ::spec-ns/spec-name {:type :reader-exception}```

U060FKQPN: it's handled by the reader earlier than that

U1KK3BW3W: ```(ns acme.spec-ns (:require [clojure.spec.alpha :as s]))

(s/def ::spec-name string?)

U5ZAJ15P0: <@U060FKQPN> could you point at where exactly it is handled?

U060FKQPN: https://github.com/clojure/clojure/blob/master/src/jvm/clojure/lang/LispReader.java#L986-L990 U060FKQPN: https://github.com/clojure/clojure/clojure/blob/master/src/jvm/clojure/lang/LispReader.java#L1040-L1044 U060FKQPN: https://github.com/clojure/clojure/clojure/blob/master/src/jvm/clojure/lang/LispReader.java#L1040-L1044

U060FKQPN: from within the implementation of syntax quote

U060FKQPN: the tl;dr is that when the compiler sees `~foo` it expands into `(clojure.core/unquote foo)`

U5ZAJ15P0 : <@U060FKQPN> ah, so if it's an unquote form it simply gets rid of the "unquote" and "quote" bits at reading time?

U060FKQPN: then syntax-quote walks its expression and expands all the unquoted forms U060FKQPN: you can see how that gets transformed by quoting a syntax-quoted expression U060FKQPN: ```user=> '`(~a)(clojure.core/seq (clojure.core/concat (clojure.core/list a)))

U5ZAJ15P0: so the reader would transform `(clojure.core/unquote 'foo)` into `foo`?

U060FKQPN: it's more complex than that

U5ZAJ15P0: oh

U060FKQPN: because of splicing

U5ZAJ15P0: if there was no splicing then it would be this simple?

U060FKQPN: more or less, yes

U060FKQPN: but because of splicing, it has to wrap every subform that is unquoted in a list & Dictional them all

U060FKQPN: so splicing becomes just like unquote w/o the wrapping list U060FKQPN: ```user=> '`(~@a)(clojure.core/seq (clojure.core/concat a))

user=>

...