13 May 2020

Roman Ivanov created group «jdk14» with members Roman Ivanov, Pavel Bludov, Richard Veach and Erik Silkensen

RI	Roman Ivanov Hi all	07:46
RV	Richard Veach Hello	07:46
RI	Roman Ivanov @nmancuso , hi	08:52
	I do not see a way to add Nick to this group	08:54
RV	Richard Veach Is this a private channel?	08:56
	Roman Ivanov invited Nick Mancuso	
RI	Roman Ivanov Hi Nick	08:57
NM	Nick Mancuso Hello!	08:57
РВ	Pavel Bludov Hello	10:15
NM	Nick Mancuso Hi Pavel!	10:18
RI	Roman Ivanov We need to think on plan and sequence of updates to grammar https://docs.google.com/document/d/1VtM3CWSJSYh_ZSPIgJSYbCTW p_D9aP0bY7KogeU/edit?usp=sharing , if we some concerns on breaking compatibility it is better to raise in advance	
NM	Nick Mancuso Pavel and I have had some discussion already regarding enhanced insta and pattern matching here: https://github.com/checkstyle/checkstyle/issues/7290#issuecomment- 609025203	20:29 anceOf

plan to fix

14 May 2020

Pavel Bludov changed group photo

J

Pavel Bludov changed group photo

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Pavel Bludov changed group photo

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15 May 2020

Roman Ivanov pinned this message

	Roman Ivanov	05:43
RI	Hi All, we need to make some planning activity, please define exa syntax features to need, exact sequence of implementation of the Please put in Github project related issues.	-
NINA	Nick Mancuso	05:47
NM	Hi Roman, I tried to add the existing issues from checkstyle to the other day when you posted, but it appears that I am unable to. Is to the project only for mentors?	
RI	Roman Ivanov	06:18
	Yes, please share here links to related issues, mentors will add the	em to project
NM	Nick Mancuso Ok, I'll get on this now.	06:19
	https://github.com/checkstyle/checkstyle/issues/7290	06:20
	https://github.com/checkstyle/checkstyle/issues/7103	06:21
	https://github.com/checkstyle/checkstyle/issues/6615	06:22

Roman Ivanov

PΒ

Pavel Bludov

Done. We have an issue for module-info.java

	https://github.com/checkstyle/checkstyle/issues/3059 @romanivanovjr The issue is closed, but not solved. The parser should be able to parse Java modules. Should we reopen this issue or create a new one?	е
	Roman Ivanov	12:23
RI	A long time ago we decided to not support it, as it is not a Java grammar, something else(config of some type), we do not have that much to validate it. We try to skip it, as update to grammar was a bit scary. So we can revise this, but let's do this as low priority.	e in
	16 May 2020	
	Pavel Bludov	00:22
РВ	Yes, module-info is not a regular Java file. Most Checkstyle checks have nothing to do with this. But at least there are may be comments and Java We should validate them. Also, there may be annotations. We have check annotations. And maybe we will have checks specifically for modules sometime. I'll start an issue to discuss.	
	https://github.com/checkstyle/checkstyle/issues/8240 And yes, this should be optional low priority issue not related to this project agree to postpone this until we start moving our codebase to java11.	00:32 ct. I
RV	Richard Veach	08:57
ΓV	What is the scope of this project? We are adding new syntax. Are we goin add their support to existing modules? Are we going to do any analysis or new syntax might damage other checks? Have we identified any projects use this new syntax we can do regression on?	n how
	Nick Mancuso	09:01
NM	Richard I will start identifying projects this week. Off the top of your head, there any we currently test where warnings for the newer features are suppressed?	are
DI	Roman Ivanov	13:09
RI	Please create exact list and sequence of fixes it will help a lot.	
	Richard Veach	13:10
RV	If you don't have access in github, then add it to the google doc and then mentor can do the updates	
	Nick Mancuso	13:12
NM	Ok, thanks!	

10:09

ngntr

17 May 2020

Roman Ivanov RI

07:58

08:04

08:13

08:14

@Nmancuso, I a bit confused. This issue is about support of new syntax, we have to support it

Nick Mancuso

Maybe I misinterpreted the issue, but I read it as the user wants us to add a feature with the ability to ignore unsupported syntax (any, not just records) when checking a file. I thought he just used records as an example in this case.

I definitely plan to implement records, I just didn't think that this issue 08:07 directly related to records. More that it was related to being able to ignore ANY unsupported syntax.

Erik Silkensen

Oh, yeah I see what you mean Nick - but my interpretation is that we just want to support the record syntax. I agree that some feature to support arbitrary invalid syntax / tell checkstyle to not parse sections of a file seems like a separate request / out of scope for your project

Roman Ivanov

He wants to support it, and white it is not easy to support it completely, he suggesting to skip it in AST completely (workaround before good implementation)

Please consider it as option, if we can do this - it would be awesome 08:14

We can release it sooner, so user keep using us on new jdk, even we 08:15 ignore all violations in records

Erik Silkensen

I can imagine something like, define a special start/end comment that tells checkstyle parser to accept everything in between, which could be Java code like records but also really any text at all, i.e. the parser rule is basically ".*" but is that what you were thinking Roman?

Or are you saying: be able to parse record syntax specifically, and it's ok if initially we don't find validations inside the records, but we are at least able to parse them?

Roman Ivanov

08:33

We add record as lexem, but in parser try to not build any AST below it. So it will looks like leaf node RECORD_DEF (no children AST)

Nick Mancuso

NM

RI

FS

RI

ES

RI	Roman Ivanov 08	8:43
1.11	Please consider to try, community will love it, all they care is to not crash	
NIN/I	Nick Mancuso 08	8:45
NM	@romanivanovjr thanks for taking the time to explain. It will be done.	
	Roman Ivanov 08	8:47
RI	Please beware that it will require regression testing too, we should not dama anything for user on old jdk	age
	Nick Mancuso 08	8:47
NM	Noted.	
	18 May 2020	
N 18 4	Nick Mancuso 13	3:13
NM	Hello all, I just wanted to provide an update to make sure we're staying in touch. I will complete all but one of my finals this week, so I plan on taking a significant amount of time next week to finalize planning and make sure I'm ready to start coding on June 1st. I plan to focus on wrapping up my remaining PR's in Checkstyle this week and the beginning of next. In my free time, I have been looking through the projects that we are testing on already to see what, ir any, of the newer JDK features they are using. Can any mentors offer advice for finding more projects that use the JDK 14 features? I have done quite a bit of Googling and hunting on Github, but I haven't turned up many larger/ stable projects that could be used for testing. What do you think would be a "good" number of projects to use in regression?	
	Roman Ivanov 1	5:57
KI	Openjdk source code have a new syntax usage, contribution repo has detail on it https://github.com/checkstyle/contribution/blob/master/checkstyle- tester/projects-to-test-on.properties#L18	ils
	Nick Mancuso 16	6:16
NM	I didn't notice them the last time I was in contribution. Thanks for the new addition!	

19 May 2020

Nick Mancuso

NM

Hi everyone, I just wanted to point out that a PR exists for the Java 14 switch statement: https://github.com/checkstyle/checkstyle/pull/8185 I have checked this commit out, and it works well except for the bug that is introduced for lambda expressions.

NM

Nick Mancuso

Thanks!

24 May 2020

Nick Mancuso

Hello all, I have just sent out a link to everyone for a chart I've created on google sheets (it's not complete yet). I plan to finish this by Tuesday so that I can update my proposal if necessary. Please, take a look and offer any feedback (or just make edits). Thanks for being patient with me through the last week so that I could get through finals, and thanks for any feedback you can offer. Here is the chart:

https://docs.google.com/spreadsheets/d/1SPw3azb7GDEcVhifmeMUTTSiFS8D-PGknfgW3LBPvQ/edit?usp=sharing

26 May 2020

NIN /	Nick Mancuso	17:50
NM	Hi guys, I'm finishing up my chart and looking deeper into i specifics right now. I see that strkkk has a PR for text block where he left off for my project? Also, I plan to start with the implementation on Monday to close issue #8023, then dive there's any objections.	s, is it OK to pick up e "simple" record
FO	Erik Silkensen	17:53
ES	That all sounds good to me $\&$	
NM	Nick Mancuso	17:57
	Since this would close the issue in my project for "records" new issue for "full record support" or something?	, should I raise a
	27 May 2020	
	Pavel Bludov	01:59
PB	You're right. Once this issue is resolved, much more work s have a new type of Type. Many checks that handle classes verify records. Please create such issue.	
	Roman Ivanov	07:41
RI	@Nmancuso , please pay attention that due to nature of A	NLRL and our model

or at least you should be aware that some parts like tests inputs can be 07:42 submitted in separate PRs

of continuous develoemnt and releases, and NO big PRs policy - we need to

change your plan a bit.

22:19

	expect long phase of Checks update to handle new syntax	C U7.44
	I remember we have some support of AST tree comparison in checkstyle-tester project to detect regression in parser, did you become familiar with it ?	07:46
	While you have pauses, we need to find good sources of Inputs for new syntax (jdk inputs, blogs, articles,)	07:48
	such search could take a while it is better to start earlier	07:49
NM	Nick Mancuso @romanivanovjr You are referring to https://github.com/checkstyle/contribution/blob/master/checkstyle- tester/launch_diff_antlr.sh right?	07:50
RI	Roman Ivanov yes	07:50
NM	Nick Mancuso I have used it a few times now, yes.	07:50
	I have found some input for records already, and plan to find more this weekend. Should I post links to the content, or just have it handy to creat input files?	07:51 æ
	In reply to this message	07:55
	So, only run ANTLR regression testing on Sevntu and standard checksty I'm glad to hear that, because it took me three days to run the test the las I used all projects!	
	Do you think my order of new features is good? records->text blocks- >pattern->enhanced switch->pattern matching for instanceof->pattern matching for enhanced switch ? I thought records would be the most challenging, so I wanted to get started on it first.	07:59
RI	Roman Ivanov	11:58
	Please keep all links at Gdoc	
	I would start to do easy changes first, so I think instanceof might be good and relatively simple	12:01
	It is better to do most challenging at the end, so at least we will practice testing of changes and acceptance of them on simple code changes	12:02
NM	Nick Mancuso	12:10
INIVI	Ok. Roman, thanks for all your guidance. I will update the GSOC and my schedule as specified. Do we want to add basic records support at begin too?	

Roman Ivanov

28 May 2020

NM	Nick Mancuso	07:15
	I have raised an issue for full records support, for discussion related	to post-
	Issue #8023 records implementation. It is here:	
	https://github.com/checkstyle/checkstyle/issues/8267	
	29 May 2020	
	Nick Mancuso	10:23
NM	I have raised a new issue to add the missing tokens to the end of th list in java.g: https://github.com/checkstyle/checkstyle/issues/8274# 627420569	
N IN A	Nick Mancuso	11:51
NM	I have updated the chart at	
	https://docs.google.com/spreadsheets/d/1SPw3azb7GDEcVhifmeM iFS8D-PGknfgW3LBPvQ/edit#gid=1115838130 to reflect the change order of updates, and added some granularity to the tasks.	
	If the sequence of updates and tasks I've outlined in the chart are acceptable, then I will amend the Gdoc (proposal) to reflect the new adding some links to repos using the Java 14 features to the Gdoc r	-
	Roman Ivanov	15:44
RI	Coding starts on 1 June , on Monday :)	
	Nick Mancuso	16:10
NM	:-) Is there anything else I should do to prepare?	10.10
RI	Roman Ivanov	16:51
1.71	No, mentors are much slower than you	
	30 May 2020	
	Roman Ivanov	08:46
RI	hi mentors , do we want to close PR -	
	https://github.com/checkstyle/checkstyle/pull/7965, I donot want PF	R to
	hanging for long time, we can always reopen it later on. Please revie	ew PR and
	suggest Nick how to proceed with it	
ES	Erik Silkensen	09:05
Ēð	Nick's last comment about setting that PR aside for now seems like	a good
	idea to me, it is a lot of work done already and would be great to get	
	the line at some point. I think it makes sense to focus on this project	for now,

and defer to you as far as closing the PR

Roman Ivanov	09:47
Erik, I recommend to review Nick status each day or each second day	
Nick Mancuso	13:32
@esilkensen I will make sure to tag you when submitting PRs.	
@romanivanovjr I apologise for not being able to close #7965 before GSOC. I had planned to, but it ended up being more complicated than I in thought. I put a lot of time into it, and I am determined to finish it before I r to school in fall at some point.	-
Roman Ivanov	13:44
t was good excecise to let you know that grammar change is not complic out whole complexity is in side effects to existing Checks	ated,
Nick Mancuso	13:45
I have definitely learned this!	
Roman Ivanov	13:45
Standard and sevntu Checks are not all Checks, there are thousands of Checks in whole world as close source, and very custom to specific proje	ct
Nick Mancuso	13:48
I never considered that. You mean that closed source projects modify Checkstyle for their own use, in house?	
Roman Ivanov	13:58
They do not modify checkstyle, they have bunch of custom Checks	
If we detect breaking compatibility in our Checks, you can be sure that you will break bunch of others that we are not aware of. So you will make choice for them to drop/update their Checks and use jdk14 features OR s on old checkstyle version	
Please be aware that we need compatible changes :) , breakiy changes are last resort	14:03
Nick Mancuso	15:15
å 	
Roman Ivanov	17:38
Nick, please confirm that you know how to run full diff regression on all standard Checks(javadoc and java) and sevntu Checks, and make sure it	t such

execution is not failing with OOM, We will need two report - AST diff, and no diff from all Checks.

NM		18:42
	I have done regular regression and ANTLR regression, but never with java I will study how to run for Javadocs and make some test runs on this tomot to be ready for Monday.	
	I have already been trying out some preliminary grammar and running regression on it, for the past week. Where should I post results and discuss each issue?	18:44 s, in
	Roman Ivanov	18:56
RI	sure, if you have something already - please share and push on mentors	
	javadoc Checks are easy - just another Checks unlikely be affected but it 1 is better to test as some other them do in javadoc and out javadoc validation	
N 1 N /	Nick Mancuso	20:16
NM	Ok, I will take care of this ASAP	
	31 May 2020	
NM	Nick Mancuso C)8:34
INIVI	I'm having an issue with running regression on this line only in $\tt projects-$	to-
	test-on.properties: https://github.com/checkstyle/contribution/blob/0e1265db313d54a99f6e162 0f15500c2f7e4f/checkstyle-tester/projects-to-test-on.properties#L7	284f
	I also tried using older branches that I have successfully ran regression of on before, and it still fails with: NoViableAltException occurred while)8:37 e
	parsing file /home/nick/IdeaProjects/contribution/checkstyle	è —
	<pre>tester/src/main/java/checkstyle/src/test/resources- noncompilable/com/puppycrawl/tools/checkstyle/gui/mainframem</pre>	node
	<pre>//InputMainFrameModelIncorrectClass.java I've tried to modify this</pre>	
	in projects-to-test-on.properties to recursively ignore all	
	subdirectories, and explicitly added this file to the ignore list, and neither attempt has worked.	
	From what I can tell, this file isn't new, and should be ignored anyway, so 0 I was wondering if anyone knew what might be going on before I start digg in.	
	Nick Mancuso)8:59
NM	I just tried to delete my clone of contribution and re-clone, it appears that the exclude folders aren't being excluded	ne



09:00

I will check it out too - can you share the full command you're running?

Erik Silkensen

others that I did successfully run regression on previously and they also failed.

ES	Erik Silkensen	10:14
LU	Ah, it looks like diff.groovy passes ignoreExcludes to launch.groovy, so I that explains why it is trying to process that file but I wasn't able to repr this using clean checkouts of master on the checkstyle and contribution r I assume this exception is only on the patch branch? Or what if you start the latest master on checkstyle, and then create another local branch fro there that's identical to it, and try the diff report on that?	oduce epos. from
RV	Richard Veach	10:18
IXV	diff groovy ignores any excluded files as it is regression and should proce files for any differences.	ess all
	if the exception is new, it will only have a green and no red. If it has a green and red, then the exception changed somehow	10:18
	if the exception is halting the regression run, then your configuration is missing the halt property from the config	10:20
NIN /	Nick Mancuso	10:26
NM	Richard that's exactly what it is. Since google_checks.xml was updated, made a new config file, and failed to add it. Thank you so much, you likel saved me hours.	
	Richard Veach	10:27
RV	no problem, I would look at the normal regression config as you should in those top properties in every run.	nclude
N IN A	Nick Mancuso	10:30
NM	Ok, thanks again! I wanted to have tests to share for instanceof today an tomorrow, and some take so long, I wanted to get them running ASAP	d
	I'm going to run google_checks and checkstyle_checks, then run ANTLR diff on checkstyle_checks, separated into three runs. Does that sound go	
	Oh, and javadoc	10:39
	Roman Ivanov	12:17
RI	@Nmancuso , please put a link of "JAVA 14 SYNTAX FEATURES" to proposal Gdoc. To keep single document with all details. I thinks that it will be much better to have time table in Gdoc , as in spreadsheet commenting is not very convenient and visible	
	you do not plan to return back to some parts, so such diagram view is no very convenient as it keep a lot of unused space. So I think if you make s	

19 very convenient as it keep a lot of unused space. So I think if you make simple table/list in Gdoc it will be much better. Commenting will be easier.

I have concerns on your first week plan, I need to heavily comment it 12:21

	Are two week blocks OK?	12:27
RI	Roman Ivanov yes	12:29
NM	Nick Mancuso I'll have it done in ten minutes	12:29
RI	Roman Ivanov Hey all, so coding period is about to start. Preparation period did not resu strict plan, sad. So it mean for me that we are not sure on what to focus a what time, partly my bad as i did not have enough time to lead this proce to keep development on leash I am imposing each day report in Telegran @Nmancuso (visible only for mentors). We will use it for 1-2 weeks, to m sure we are on track. In addition to telegram @Nmancuso have to do 2 time per week report in public mail-thread (requirement from Google). @Nmancuso , please star thread on first day and share what you did on first day.	at ss. So n for ake
	lets make mail thread with title "GSOC - jdk14 - June" (each month will have separate mail-thread) , and place some report on Monday and Thu	12:44 rsday.
NM	Nick Mancuso So, I will report my plan for the day every morning in Telegram, then report progress in mail thread Monday and Thursday, correct?	12:45 ort
RI	Roman Ivanov while plan in not strict, please report plan and what was done/problems/failures/ Ones plan become more clear, you can just us your status. To make mentors be clear when you stuck and need help or advice	12:47 drop 12:47
NM	Nick Mancuso Ok, hopefully not too many failures! I will definitely communicate if I need help. I only forsee a few roadblocks which I plan to investigate further tonight and post in appropriate issues b	12:48 5,12:50
RI	tomorrow. Roman Ivanov @Nmancuso, after that long time in regression testing, you might find so good automation for this, please do not hesitate to contribute it, we can a such regression testing in CI probably to ease this process during GSOC after gsoc.	13:37 ome idd

NICK Mancuso

13:39

That is a good idea, I did plan on writing at least a bash script to help out.

NM

Good morning everyone. I am getting started on writing input files for records and instanceof, and plan to submit PRs for both today. I will also submit a PR for JDK 14 test item in Travis. Should I also submit PR for initial record grammar, even if the grammar still stumbles on something like LogRecod record; , just so mentors can monitor my progress with that task?

Nick Mancuso

07:00

07:23

I just want to provide an update regarding regression reports: I had planned to provide several today, so I spun up two EC2 instances to keep up with the demand and not tie up my desktop. I've been having some issues completing the reports with these projects: https://gist.github.com/nmancus1/a89d2614131e8c0a44f3b31cb6775598 and

this config, based off of checkstyle_checks.xml: https://gist.github.com/nmancus1/d11ca3d587eb487b15064456d21072f1 Is there any outstanding issues with either one of these files? I have run all of these tests, with all the same projects selected, at least 20 times before with no issue (on my desktop, not in the EC2 instance)

Roman Ivanov

> Should I also submit PR for initial record grammar, even if the grammar still stumbles on something like LogRecod record;, just so mentors can monitor my progress with that task?

Please do draft PR - https://github.blog/2019-02-14-introducing-draft-pullrequests/

NM	Nick Mancuso	07:24
INIVI	Ok!	
RI	Roman Ivanov > I've been having some issues	07:27
	Please be exact, share full log of execution or exception or Please c issue in contribution repo, to keep all context in one place and share link and request help, keep pinning mentors each day on problems you have	here

Nick Mancuso 07:29 NM Ok. I am trying one more run, then I will create an issue.

Nick Mancuso 13:11

NM

Hello all, today I have created two PR

Hello all, today I have created two PR's, (input files for records and 13:16 instanceof with pattern matching), and two draft PR's (rocrd and instanceof grammar. I think I have regression testing all set up in my two EC2 instances. The problem was likely that they didn't have enough memory, I started out with the 4 gig instances, but I went up to 10 now, with a compute specific setup. I am now running AST structure regression reports and check behavior

Roman Ivanov	13:17
Please do not forget to start open for all mail thread that track ye progress	our status and
Nick Mancuso	13:19
In google groups?	
Roman Ivanov	13:19
Yes	
Nick Mancuso	13:21
I'm typing it right now. Is there anything else I can work on for to done for the day, but I wanted to check in before it was too late	-
Roman Ivanov	13:23
Good first day, thanks a lot.	
Nick Mancuso	13:24
I wish I could've had my EC2 instances running reports all day i constantly failing but other than that, not bad. You're welcome	
Erik Silkensen	13:27
Nice work, Nick - I will check out your PR's later this evening.	
Nick Mancuso	13:27
Oh, I made a bucket on AWS for reports if we run into problems	with github.io.
Nick Mancuso	13:49
Email thread here: https://groups.google.com/forum/#!topic/cheo_se7-Pjrag	ckstyle-devel/-
Roman Ivanov	21:13
Nick, it would help a lot if you clearly define in your status report telegram) exact list of PR links, to make it very clear what is me list	
2 June 2020	
Nick Mancuso	05:33
Morning status report: today I plan to work on the automation of	reports,

perfecting the preliminary record grammar, posting reports, providing more information in issues. I need help from mentors with closing the three PR's that are open (https://github.com/checkstyle/checkstyle/pull/8289, https://github.com/checkstyle/checkstyle/pull/8289, https://github.com/checkstyle/checkstyle/pull/8290) and for them to take a look

RI

NM

one, with a better email? I misunderstood the intent of the email thread, I thought it was supposed to be blog-like.

Roman Ivanov

06:42

No need to create new thread, you can keep it for blog like purpose if you want, but please make some section in it for a status (what is done and what is blocking you, pinning mentors to respond to merge, question, ...)

You can take a look at records grammar in pmd project, antlr4 project 06:44 also have example of Java grammar but I am not sure of status such grammar

Nick Mancuso

15:03

Evening status report: Today I have almost finished a script to automate check regression testing for my EC2 instance, found here:

https://gist.github.com/nmancus1/40b52daac298266c7f1713d0af1ebc2a. It is by no means perfect, but I intend to keep using it throughout the summer and improving it as I use it more. I have posted check regression reports for initial records grammar https://github.com/checkstyle/checkstyle/pull/8293 and enhanced instanceof grammar

https://github.com/checkstyle/checkstyle/pull/8294 . I have continued to try different approaches to the records grammar. I will post the two examples of code that I am struggling to parse correctly, and push my latest attempt to the draft PR here: https://github.com/checkstyle/checkstyle/pull/8293.

It looks like instanceof will be very straightforward to complete, I wonder 15:08 if we should pursue that and keep trying different approaches for the record grammar. I plan to complete and post AST regression testing and Javadoc regression testing by noon tomorrow for instanceof. I had hoped to complete the initial grammar for records today, but it is not as simple as I thought, since "record" hasn't always been a keyword.

I plan to put in a few more hours this evening, please let me know if 15:09 there's anything else I can take care of today.

ES

Erik Silkensen

Sounds good, thanks Nick - I will check out the draft grammar PR's tonight. I think it sounds like a good plan to me to take them one at a time, if instanceof is straightforward, it should be a good way to get things started!

Nick Mancuso

Thanks! The record grammar is pretty rough, but I thought it best to share early and often to keep everyone in the loop.

Nick Mancuso

Mentors, I have posted a google doc with a few questions that I have about testing just to make sure there is no time wasted. You can find the doc here: https://docs.google.com/document/d/1KxyTPtL3Ers0c505_Dltmi2Zs9elG5kv8tJ MdqgTL6o/edit

18:06

19:12

18:11

NM

NM

ES

RI

AS I regression report to instanceor PR, and write UT's for instanceor once PR's for input are merged. Also, I plan to continue work on my check regression script. I see that I was added as a collaborator last night, thank you! I am honored. For the smaller PR's, once all is green and two mentors have approved, may I merge them? If so, all I need from mentors today is to take a look at the google doc I've posted and respond to my points. https://docs.google.com/document/d/1KxyTPtL3Ers0c505_Dltmi2Zs9eIG5kv8tJ MdggTL6o/edit

Erik Silkensen

07:08

Sounds good, I had the same question about merging PR's - that said, I wouldn't let the separate PR for instanceof input block you from writing the UT's, IMO it's small enough to include in the grammar change PR or in any case can be kept in sync / rebased once a separate PR is merged.

For your testing questions in the google doc, I'm hoping Roman, Richard or Pavel might comment having more knowledge of it than I do... like for 2 about sventu - but your plans sound good to me.

Roman Ivanov

Nick Mancuso

07:57

08:02

@Nmancuso, I replied you in doc (if you agree, embed comments in text to make it clear for all). I do not like Gdocs as we loosing some valuable context to refer to it later on. As we finish discussion in gdoc we should move content it to some issue to make it as plan (issue description is modifiable, and I can remove comments to keep it not messy) - please do.

@Nmancuso, there is huge pressure on me now, as all all project need 08:01 initial guidance on how exactly operate, I can not follow all conversations, please pin us, if somethig is not done(review/merge). Please in your EOD report - list links to PR that mentors need to review, keep pinning them (mentors/me). If I am not responding it might be I missing something, or missed due to overload.

NM @romanivanovjr if it's ok, I was going to update contribution/checkstyle-tester documentation with this information, and I will also put in issue as well RI Roman Ivanov 08:03 yes, please. We always open to improvment. 08:03 NM Nick Mancuso 15:34 EOD report: today I updated the instanceof PR (https://github.com/checkstyle/checkstyle/pull/8294), all is green and it is ready for review. We still need to get

https://github.com/checkstyle/checkstyle/pull/8290,

https://github.com/checkstyle/checkstyle/pull/8284, and

https://github.com/checkstyle/checkstyle/pull/8289 merged. I also submitted a PR for contribution, but I moved it to draft status, because I would like to add more information about testing with sevntu checks, once I get that figured out.

I really have only two issues blocking me right now,(1) I can't figure out 15:37 how to run sevntu checks. @romanivanovjr I followed the travis script, but there is no "sevntu-checks" item in travis.sh anymore. (2) How to avoid parsing "record" as a LITERAL record when it is a variable name. I have tried many different approaches to no avail.

auto to mapolargianas.com one one tyrerene encorer pair of 200.

I plan to put in an hour or two later tonight, please let me know if I can do 15:38 anything else.

Oh, and I also added the AST regression reports (three of them) to PR 15:45 https://github.com/checkstyle/checkstyle/pull/8294

Roman Ivanov

https://github.com/sevntu-

RI

RI

ES

NM

20:44

22:27

22:44

checkstyle/sevntu.checkstyle/blob/master/.ci/travis.sh#L55 there is sevntu build in Travis

Roman Ivanov

@pbludov, please review prs with inputs. @Nmancuso, please send me gist with all logs of what you tried with sevntu

Erik Silkensen

Thanks Nick, and nice work on the instance of PR. I suspect Roman will be able to get you squared away with sevntu, but if you need a second set of eyes I will be happy to jump in as well.

My initial thought on "record" is that it may be a special case where, since it is sometimes a keyword and sometimes not, we probably don't want it to be a new LITERAL record token.

I wonder if it'd be possible to write the new record grammar rules using a semantic predicate to check whether an IDENT token's value is "record" - what do you think? (see the docs/examples here, if you haven't already: https://www.antlr2.org/doc/metalang.html#SemanticPredicates)

4 June 2020

Nick Mancuso

06:12

Plan for today: Get sevntu testing figured out, continue trying to get records working, update PR in contribution with sevntu testing information. I will also post in the email thread this afternoon. @esilkensen thanks for the ideas, I have tried using the semantic predicate, but not the removal of the LITERAL record token. I will try that today and report back. @romanivanovjr I apologize. I was confused and thought we were talking about travis for regular checkstyle. I will reread through our conversation yesterday and check out that link. I will document what I've tried and supply it in a gist for you.

Nick Mancuso

NM	Nick Mancuso Update: sevntu check regression report is up and running.	09:45
NM	Nick Mancuso	13:30
	@esilkensen you rock. Removing LITERAL_record did the trick!	13:31
ES	Nice, that is great to hear!	10.01
NM	Nick Mancuso Instead of posting EOD here, I am composing another email for the threa right now.	15:13 ad
N IN A	Nick Mancuso	15:28
NM	https://groups.google.com/forum/#!topic/checkstyle-devel/se7-Pjrag	
	5 June 2020	
NM	Nick Mancuso Plan for today: general housekeeping, finish PR in contribution, add code is failing to parse in CI from records PR to records input file, modify record grammar to handle it. I have some check regression reports for current re grammar, I will post them. I am also going to run some check regression reports on JDK14 for instanceof.	rds
ES	Erik Silkensen Sounds like a good plan, nice work this week!	06:56
NM	Nick Mancuso @esilkensen thank you. If you have a moment, can you take a look at https://nmancus1.github.io/full_diff-initial-pattern-def- grammar_6_1/diff_sevntu_checkstyle and make sure that I ran the report correctly? I wanted to get the contribution documentation finished up toda	
NM	Nick Mancuso Coverage for records is now 100%, I'm removing the jacoco report.	09:24
ES	Erik Silkensen In reply to this message I actually haven't run one of those myself, but looks good to me ♦	09:31
NM	Nick Mancuso Can a mentor share the werker failure with me please? https://github.com/checkstyle/checkstyle/pull/8293	10:21

Buolo olingio report, and the oneone covinta orion.nini coning.

 NoErrorTest - Orekit Caused by: java.lang.IllegalStateException: /pipeline/source/.ci- temp/Orekit/src/main/java/org/orekit/bodies/JPLEphemeridesLoader.java:499:5 4: unexpected token: record Roman Ivanov 10:40 @esilkensen , please login to wercker GitHub account and share with me your account , I will give you access Nick Mancuso 10:51 It's normally taking me about 4 hours to run check regression reports for all checkstyle checks and javadoc checks on all projects except JDK14. I've had a JDK14 only check regression test running for about five hours now, and it's still on the first config file(javadoc). It appears that it's still running, but I think it might have died silently. Has anyone ran check regression with JDK 14 before? Should it take much longer than normal? RV Richard Veach Nick Mancuso Nick Mancuso I1:30 https://github.com/checkstyle/checkstyle/issues/8291 Nick Mancuso I1:30 https://app.wercker.com/checkstyle/checkstyle/runs/build/5eda863e7b63df001 a18d7e3 Nick Mancuso I4:25 EOD: made more headway on records grammar, addressed all points from Richard in https://github.com/checkstyle/contribution/pull/484 , added more troublesome code to the records UT, and began researching solutions for https://github.com/checkstyle/checkstyle/issues/8291. It seems like once the number of nested lambdas approaches 25, the issue arises. I'm going continue 		Richard Veach	10:32
temp/Orekit/src/main/java/org/orekit/bodies/JPLEphemeridesLoader.java:499:5 4: unexpected token: record RI Roman Ivanov 10:40 @esilkensen., please login to wercker GitHub account and share with me your account , I will give you access 10:51 NM Nick Mancuso 10:51 It's normally taking me about 4 hours to run check regression reports for all checkstyle checks and javadoc checks on all projects except JDK14. I've had a JDK14 only check regression test running for about five hours now, and it's still on the first config file(javadoc). It appears that it's still running, but I think it might have died silently. Has anyone ran check regression with JDK 14 before? Should it take much longer than normal? RV Richard Veach 10:52 NIM Nick Mancuso 10:54 I'll look into it 10:54 NM Nick Mancuso 11:30 NIM Nick Mancuso 11:30 NIM Nick Mancuso 11:30 NIM Nick Mancuso 14:25 EOD: made more headway on records grammar, addressed all points from Richard in https://github.com/checkstyle/checkstyle/contribution/pull/484, added more troublesome code to the records UT, and began researching solutions for https://github.com/checkstyle/checkstyle/issues/8291. It seems like once the	RV	NoErrorTest - Orekit	
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https://github.com/checkstyle/checkstyle/issues/8291 .It seems like once the			
number of nested lambdas approaches 25, the issue arises. This young continue			
to look at this problem, since it is critical that I am able to test on JDK14. Since			
it looks like I will need to continue to work on the records grammar, I am going			

8 June 2020

Nick Mancuso

NM

more after the grammar improves.

05:24

Plan for today: provide latest records implementation check regression reports, provide latest records AST regression reports, try to refine records grammar,

to hold off posting the check regression reports that I made last night, and run

	I put a few hours into https://github.com/checkstyle/checkstyle/issues/8291 this weekend, and haven't been able to determine what the cause of the issue is. I will take another look this week. Should we add the file that is causing the issue t excludes in projects-to-test-on.properties file for now?	
РВ	Pavel Bludov @Nmancuso this is test case for https://bugs.openjdk.java.net/browse/JI 8055984 This bug was fixed in the compiler, but not at the grammar level.	09:43 DK-
NM	Nick Mancuso Should we just exclude it then?	10:16
PB	Pavel Bludov I agree. Ignoring this test would be a reasonable solution. This sample is synthetic and should not occur in real code.	11:11 ;
RV	Richard Veach Don't forget difference regression ignores the exclude list You should just not run regression on these affected projects	11:12 11:13
NM	Nick Mancuso Thanks for the reminder!	11:13
RV	Richard Veach As for why the issue happens, it basically relates to how antlr decides wh next item is (variable, method, etc). Antlr isn't that smart and basically guess based on the definitions given to it. When it guesses wrong, it has unwind to a certain point and guess again. The lag occurs based on how guessing it has to do and how much unwinding it has to do.	has to to
	If 2 guesses are very similar, it compounds the issue more and it increases the guesses and unwinding when it fails.	11:18
	Something similar happened to the javadoc antlr, and we forced the issu through by telling antlr how to guess correctly. We didn't have anyone wi enough experience to resolve the issue.	
	See https://github.com/checkstyle/checkstyle/issues/1064#issuecomment- 200387660	11:21
NM	Nick Mancuso	11:27

I guess that much logic in an action is undesirable, right? That's why you call it "forced"?

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N IN /	Nick Mancuso	16:03
NM	EOD/Monday report: https://groups.google.com/d/msg/checkstyle-devel/ Pjrag/4PkQss3aAwAJ	se7-
ES	Erik Silkensen Thanks Nick - I don't think there is anything you need to do with the insta PR until Roman/Richard has a chance to review. I am taking a closer loc the records grammar now and will get back to you, hopefully later tonigh	ok at
NM	Nick Mancuso Awesome, thank you very much. I'm really not happy with what I had to o get it working (all the logic in the lexer) but I've tried about 50 different variations of solutions I've found online, and nothing works 100%. If you would help, I can share (in a gist) what I did that worked pretty good for records but messed up the rest of the grammar, maybe you can tell what breaking everything else.	16:46 do to think it
ES	Erik Silkensen Sounds good, yeah if you want to share a gist with that, I will check it ou	16:47 t too
NM	Nick Mancuso I just pushed the whole branch, and left a comment for you here: https://github.com/checkstyle/checkstyle/pull/8293#discussion_r4370795	18:00
ES	Erik Silkensen Nice, thanks! Yeah that branch is what I was wondering about I have s looking at this, will pick it up again	23:57 tarted
	9 June 2020	
NM	Nick Mancuso Plan for today: finish up check regression report script, submit PR. Try a approach to records grammar (having lexer pass all keywords to the pa keywords, then have a parser "id" rule). Hopefully get https://github.com/checkstyle/contribution/pull/484 merged, or more feed on how to improve.	rser as
NM	Nick Mancuso Mentors, do I need to create an issue for diff.groovy automation before submitting the PR for my script?	07:11
	Roman Ivanov	07:29

Roman Ivanov

RI

It it always good to create issue and put there all details with root reasons why such update is required

	I am prepared to submit a PR as soon as this is approved.	09:55
N 18 /	Nick Mancuso	12:24
NM	@esilkensen I nailed the records grammar, finally. I just wanted to so that you don't waste anymore time looking into it.	o let you know
FO	Erik Silkensen	12:25
ES	Awesome! Thanks for the heads up, I will look forward to checkin you came up with \clubsuit	g out what
	Nick Mancuso	12:46
NM	https://github.com/checkstyle/checkstyle/issues/8308 I can submitteday, if approved.	t a PR for this
	Roman Ivanov	13:09
RI	Mentors please read https://github.com/checkstyle/checkstyle/pull/8290#issuecommen	t-641541734
	Nick Mancuso	13:30
NM	@romanivanovjr I was wondering about that one after our discussion instaceof input. Should I edit the PR?	ssion for
	Erik Silkensen	13:32
ES	In reply to this message	
	Noted, thanks	
	Nick Mancuso	15:35
NM	EOD: Finished up check regression report script, created two issu https://github.com/checkstyle/checkstyle/issues/8308 and https://github.com/checkstyle/contribution/issues/486, and got a v grammar that I'm satisfied with. I still need approval for both issue could help with that.	vorking record
	Erik Silkensen	16:28
ES	Sounds good, if the changes for #8308 are small, I think it would them in as part of your PR for records without necessarily creating issue. If they are significant then certainly better to separate it out course I defer to the admins either way)	g a separate
	10 June 2020	
	Nick Mancuso	06:14

NM

Plan for today : post check regression reports to

https://github.com/checkstyle/checkstyle/issues/8308, run AST regression reports for #8308 and get them posted today or tomorrow. Unless any mentors have specific tasks in mind for me, I'm going to begin studying groovy and converting my check regression report script (written in BASH now) to groovy.

	features?	
RI	Roman Ivanov yes, never be blocked by slow mentors	06:16
NM	Nick Mancuso @romanivanovjr What is the "right way" to continue the work of another? https://github.com/checkstyle/checkstyle/issues/7103 and https://github.com/strkkk/checkstyle/commit/7f1ae58a91726e655530ed9 16a9a4de3fa4	
	Just make a new branch from the existing commit?	06:20
RI	Roman Ivanov yes, you can always send PR that contain commit from pending to merge just mention in PR description that some set of commits to not review as are part of something else. After merge of old PR, you will simply rebase be ready for final review with single commit.	thay
NM	Nick Mancuso The old PR was closed, does that make any difference?	06:47
RI	Roman Ivanov if some PR is merged already, just create new branch of latest master	06:52
NM	Nick Mancuso strkkk closed it: https://github.com/checkstyle/checkstyle/pull/7285#issuecomment-58577 (under your comment), it wasn't merged in this case.	06:55 70863
RI	Roman Ivanov it was closed just to keep size of PRs on leash	06:56
	take this commit, reuse it, and continue it	06:57
	size = amount	06:57
	now you are dedicated to jdk14 feature , we can have as much PRs as reasonable to be open and active till end of GSOC	06:58
NM	Nick Mancuso Ok, thanks for explaining. I will start on this today, unless you think I shou look at enhanced switch first.	06:59 Ild
RI	Roman Ivanov did you make progress with testing tool ?	06:59
	did you provide all regression reports for records and instanceOf ?	07:00

	instanceof. I was waiting to make sure that https://github.com/checkstyle/checkstyle/issues/8308#issuecomment- 641995056 gets approved, so I can use that in records grammar, then I w make reports for that.	vill
	I am currently running reports (check and AST) for https://github.com/checkstyle/checkstyle/issues/8308#issuecomment- 641995056 and will have both posted by EOD	07:03
	Roman Ivanov	07:03
RI	please keep pinning mentors to unblock you, to approve issues and and PRs and	review
	Nick Mancuso	07:06
NM	Issues that need approval: https://github.com/checkstyle/checkstyle/issues/8308#issuecomment- 641995056 , https://github.com/checkstyle/contribution/issues/486#issuecomment- 641705953	
	PR's that need review: https://github.com/checkstyle/checkstyle/pull/8294, https://github.com/checkstyle/contribution/pull/484	07:07
	Nick Mancuso	07:40
NM	All reports posted to issue #8308 https://github.com/checkstyle/checkstyle/issues/8308#issuecomment- 642053460	
	Erik Silkensen	07:55
ES	I added the approved label to the id issue - I would also echo what Roma about being blocked, for example if you have code ready for that id rule o something you believe is the right way forward, I'd say go for it, push it to branch, open a new PR, etc especially if you don't have something else you're working on, don't let an issue approval stop you from starting. Any will look forward to checking out those grammar updates, and let me know there's anything I can help out with in the meantime!	or your e way, I
NM	Nick Mancuso	08:23
INIVÍ	PR posted: https://github.com/checkstyle/checkstyle/pull/8313	

I just realized that my master that I ran the reports on was two commits 08:27 behind my IDENT-to-id branch. It caused a bunch of differences from those two commits in between (JavadocMethod and EmptyLineSeparator). Do I need to rerun all of these reports?

Disregard that question, I just realized I missed a few IDENTS in the 08:37 parser anyway, so I will update the PR and rerun the reports.

Nick Mancuso

NM

NM

Nick Mancuso

I've tried to specify another path in the "includes" header to include the generated files in pom.xml, but it hasn't worked.

Nick Mancuso

14:42

13:54

EOD report: I've pushed what should be the final update needed to get https://github.com/checkstyle/checkstyle/pull/8313 merged, except that I need to somehow show that this change doesn't impact performance, which I am not sure how exactly to quantify. Also, I've merged that commit into my records grammar implementation, and updated the grammar to work with classBlock, so that we can easily incorporate new and old checks to be compatible with the records construct. This grammar works great, except I cannot seem to get coverage above 55% for recordDeclaration . All of my other rules have 100% coverage. Unfortunately, since I can't seem to view the source code report in Jacoco for GeneratedJavaLexer.java, I can't determine which branches in recordDeclaration aren't fully covered. I am going to run reports for the new records grammar this evening, to post tomorrow. The new reports for #8308 are almost done, and I will post them this evening.

This coverage issue is frustrating, since I've manually traced the program 14:43 and can confirm every branch is being hit except for the default "NoViableAltException" branch.

RV

Richard Veach

I thought we did fix jacoco so you could see coverage for the lexer. I know I can see coverage in Eclipse using its plugin.

Be wary of code coverage for the generated class. It likes to build a lot of 17:54 dead code because it is auto generated and isn't very well optimized.

Nick Mancuso

I need to see coverage for the recognizer, though. I can see coverage in IntelliJ, but that's Intellij's analysis, not Jacoco's. Intellij shows total coverage except for the default case. How can I proceed? The generated code is actually very simple in this case, and only has three branches including the default. If I drop the required coverage from 0.73 to 0.72, I can pass mvn clean verify with no problem. If we have to stick with 0.73 as our minimum, could I try to add some test cases for something unrelated and increase coverage for the entire file to offset this? It seems like 55% coverage is pretty decent for most of the more significant rules.

Reports for #8308 have been updated.	19:	49	9
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Roman Ivanov

I remember https://github.com/checkstyle/checkstyle/wiki/How-to-run-certainphases-and-validations#how-to-generate-ut-coverage-report this worked for me, and even played with numbers over such generated code, very recently.

NM

RI

19:46

22:19

ES

> I need to somehow show that this change doesn't impact performance, which I am not sure how exactly to quantify

What do you think about timing the checkstyle execution time, base branch vs. patch, for a couple of projects?

> How can I proceed? The generated code is actually very simple in this case, and only has three branches including the default. If I drop the required coverage from 0.73 to 0.72, I can pass mvn clean verify with no problem.

On the one hand, my personal feeling is if your changes are well tested, chasing after 1% coverage isn't necessarily a good use of time and I'd probably vote to lower the number to 0.72. That said, it looks like your latest grammar introduces a number of new, uncovered branches where for example "LA(2)==IDENT" turns into "LA(2)==IDENT||LA(2)==LITERAL_record" - I suspect you could cover some of those by using "record" as a normal identifier in different ways - and maybe those could be good additions to the test case, anyway.

Nice work figuring everything out -- I think you're making great progress! 00:33

NM	Nick Mancuso	05:28
INIVI	Plan for today: time execution of checkstyle on several different project master and my records grammar branch, to present to mentors, and ad items in PRs. I am also going to dig in more to the coverage issue.	•
	Also I will provide new reports for records grammar.	05:28
NM	Nick Mancuso	06:08
INIVI	Reports for records grammar: https://github.com/checkstyle/checkstyle/pull/8293#issuecomment-637	073067
	Roman Ivanov	06:10
RI	Please do not go too crazy in coverage of generated code, we are ok t some noncovered code, just share what you did to try to cover them	o make
NM	Nick Mancuso	06:16
INIVI	@romanivanovjr the instructions that you pointed me to worked great to a report that shows the source. Thanks! Everything I've added is cover 100% except for recordDeclaration, and it is 55%, which is typical for so the more complicated AST structures. I am sharing a coverage report to recent master and my changes to the above link. I have one more idea going to try to get coverage up. If that doesn't work, can I drop the cover minimum in pom.xml?	red some of from a l'm

Roman Ivanov

RI

06:51

Yes, you can, but do not forget to share all details to mentors to verify

Nick Mancuso

NM

NM

ES

NM

NM

NM

ine enange in pom.xini stay as separate commit:

Nick Mancuso

EOD report: I have added some timed execution averages to #8293 and #8313. I have also added details for dropping the minimum coverage in #8293, however, I will likely be reverting that commit if everything works out with Richard 's suggestion, which I will apply tomorrow. I am running reports again for records grammar, which I will be posting tonight or tomorrow morning. I updated #8313 to address @esilkensen 's items. I am posting to the email thread as soon as I'm done writing this.

Nick Mancuso

Email thread post:https://groups.google.com/d/msg/checkstyle-devel/- se7-Pjrag/6lkOWaX7AwAJ

Erik Silkensen

Nice, thanks Nick. I think we just need Roman and/or Richard to review instanceof to get that across the line.

I don't think I am able to add labels / approve issues in the contribution repo but IIRC that one doesn't have the same CI restrictions as the main checkstyle repo. I think you can go ahead with converting your script to groovy and sending a PR!

12 June 2020

Nick Mancuso

Plan for today: Make one more attempt to get coverage up for records, post reports for records, make records ready for review. I will also attend to general housekeeping, and address all items from mentors in all PR's. I am going to put the groovy script on the back burner for now, and work on it throughout next week. Since I have fully automated the check regression report generation already with my bash script, this isn't a high priority unless someone else needs it.

Nick Mancuso

14:26

04:25

14:49

15:21

20:28

EOD: I have addressed all items in all PR's, and I am just waiting on AST regression report for records PR to finish (it's taking longer than expected), I will post it as soon as it is done and mark the records PR ready for review. I have posted all check regression reports to records PR. After that, all PR's will be ready for review. https://github.com/checkstyle/checkstyle/pull/8313 https://github.com/checkstyle/contribution/pull/484 https://github.com/checkstyle/checkstyle/pull/8294 https://github.com/checkstyle/checkstyle/pull/8293

Nick Mancuso

Starting Monday, I will begin hacking on TextBlocks grammar, unless I have items to address for current PR's. I don't think it's a good idea to start on the

any objections.

NIN/	Nick Mancuso	15:12
NM	Does anyone know about the GSOC evaluations? Does this get s form via email?	ent out as a
	Nick Mancuso	17:57
NM	AST regression report posted to records: https://github.com/checkstyle/checkstyle/pull/8313 . It is now mark for review.	ed as ready
	I'm running another AST regression test on another project. I will t 14 first, and if that hangs, then I'll try something else.	ry Java 17:58
	Roman Ivanov	22:04
RI	GSoC evaluation is a simple form in GSoC web site, Google send reminder	email as
	13 June 2020	
	Roman Ivanov	06:43
RI	Please add this record case to our inputs https://twitter.com/graemerocher/status/1270640823168831496?s	;=19
	Nick Mancuso	06:49
NM	Ok, I'm looking on github for the exact file right now	
	Which import should I use? Does it matter?	06:54
DI	Roman Ivanov	06:59
RI	We just need to put word record in any possible place, just to mak works	e sure it
	Nick Mancuso	08:29
NM	@romanivanovjr can you take a quick look at https://github.com/checkstyle/checkstyle/pull/8294 , https://github.com/checkstyle/checkstyle/pull/8293 and https://github.com/checkstyle/checkstyle/pull/8313 to see if there's	sanymore
	tests I need to provide? I'd like to run them all weekend if I can.	,
NM	Nick Mancuso	08:49
	@romanivanovjr I mean test reports	
	15 June 2020	
NIN/	Nick Mancuso	04:46
NM		

Plan for today: post AST regression report for records, address all items in PR's, submit PR for TextBlocks input, begin hacking TextBlocks grammar.

	cases we need, I'm going to add them to the inputs test and tweak the grammar again.	SI
N IN A	Nick Mancuso	07:47
NM	Ok, I have amended records grammar to work with all failed examples fro JDK14 AST regression test. I am changing records PR back to draft statu sorry for any confusion.	
NM	Nick Mancuso	08:18
INIVI	Text blocks input: https://github.com/checkstyle/checkstyle/pull/8320	
	I will mark records PR as ready for review once I have rerun all tests and posted the results.	08:20
	Nick Mancuso	09:04
NM	A quick fix here for consistency: https://github.com/checkstyle/checkstyle/pull/8321	
	Can a mentor provide me with wercker failure please: https://app.wercker.com/checkstyle/checkstyle/runs/build/5ee796ef7b63c 1cc39b	09:11 If001a
RV	Richard Veach	09:14
IXV	NoErrorTest - Spring Integration Could not GET 'https://oss.sonatype.org/content/repositories/snapshots/org/jxmpp/jxmpp core/maven-metadata.xml'. Received status code 502 from server: Bad Gateway)-
	looks like a random failure	09:14
	Nick Mancuso	09:15
NM	Ok, thank you. Can we just restart CI?	
	Richard Veach	09:15
RV	I did, but sometimes it may take some time for a random failure to work it out	self
N IN A	Nick Mancuso	15:03
NM	EOD found here: https://groups.google.com/g/checkstyle-devel/c/se7- Pjrag/m/MNOSCP7jBwAJ	
	I will post all reports to records PR within the next few hours, they should be done by 8:30 at the latest.	15:04
	*8:30 EST	15:04

The JDK 14 AST regresion test for records helped me find a few more test

https://github.com/checkstyle/checkstyle/pull/8293. I can run them today if so.

NM

Nick Mancuso

14:52

EOD: all reports posted, and have a working implementation of text blocks grammar. Mentors, please see https://github.com/checkstyle/checkstyle/issues/7103#issuecomment-645028044 and comment on the AST. I tried several different approaches, including trying to use the hidden lexer channel and a separate tokenstream in the parser, which worked to varying degrees of success, but added a lot of code to JavaParser.java, which I didn't like. My final approach seems to be the most simple and error-free; I have entirely implemented this solution within the grammar. I need to work on it a bit, but I think that the basic skeleton is good, and I should be able to perfect it during the week and begin running regression tests if everyone approves of the AST.

17 June 2020

Erik Silkensen

Thanks Nick -- hopefully we can catch up to you with some of those PR's waiting to merge (sorry I've been swamped lately, am trying to get onboard at a new job). "simple and error-free", I like the sound of that O That does sound like a nice approach if it can be done in the grammar

Nick Mancuso

NM

NM

NM

Plan for today: keep working on text blocks grammar, and respond to all items in PRs.

Nick Mancuso

EOD report: not really the end of the day, I am picking up later (to finish PR items), but I just wanted to check in. After spending about half of the day working on the hacky text blocks implementation that I came up with on Monday and Tuesday, I have decided that I should use a separate token stream for the text block content. I really liked @pbludov 's suggestion here: https://github.com/checkstyle/checkstyle/issues/7103#issuecomment-645266909, and the best way to implement this is to use a token stream selector. I have done this, and created a "java14textblock" grammar. Even if we don't do much more with this now, in the future, we could easily implement things like language-specific nodes, clear out extraneous whitespace, parse content, and much more. Since I have been keeping up fairly well so far, I would like to take my time on text blocks and really make this a solid addition to our Java14 syntax support, unless mentors disagree. It will take me a couple more days to get a text blocks PR submitted, likely next week, if that's OK.

Nick Mancuso

Also, I ran another AST regression report for records, on JDK14, just to make sure all bases are covered: https://nmancus1.github.io/initial-record-grammar_check_diff_reports_2020_06_15/AST_diff_6-17_jdk14 . I have posted this report to the PR as well.

06:01

01:04

14:14

NIVI

Plan for today: keep hacking on text blocks grammar, address items in PR's,
post in email thread. I have completely rewritten my text blocks implementation
to use multiplexed token streams and written separate text blocks grammar.
Everything seems to work except for a maddening issue: the second stream
returns it's first token BEFORE the token where I'm pushing the input to the
other stream. So basically, the "TEXT_BLOCK_LITERAL_END" token is being
returned before the "TEXT_BLOCK_LITERAL_BEGIN" token! If I can't get this
figured out today, I'm going to push the branch to my fork and post a link to see
if any mentors can help. I have a few more ideas about how to proceed, I will
try all of them and share my results.

07:22 Are any mentors able to share this wercker failure? https://app.wercker.com/checkstyle/checkstyle/runs/build/5eeb02d07b63df001 a1e4895



NM

Erik Silkensen

[WARNING] Rule 0: org.apache.maven.plugins.enforcer.RequireJavaVersion failed with message:

Detected JDK Version: 1.8.0-232 is not in the allowed range [11,).

It looks like this isn't specific to your PR https://github.com/checkstyle/checkstyle/pull/8324 is also failing the same way

Nick Mancuso NM

EOD posted in google groups thread: https://groups.google.com/g/checkstyledevel/c/- se7-Pjrag/m/3jfJ8ILeCAAJ

19 June 2020

Nick Mancuso

Plan for today: continue hacking text blocks grammar. I am getting pretty close to having a working implementation, I will push my changes and share my branch along with a gist of what I'm struggling with, later today. The only real challenge left with this is to figure out why the TEXT BLOCK LITERAL BEGIN token is out of order, and how to best keep track of newlines, since "\n" is able to be used in text blocks.

Nick Mancuso NM

draft PR for text blocks is up: https://github.com/checkstyle/checkstyle/pull/8327

Nick Mancuso NM

Mentors, please take a look at the AST for text blocks and let me know if this what we want: https://github.com/checkstyle/checkstyle/pull/8327/files#diff-005f4a4ab29fcdadc426ab80fbcda6c3

I really liked @pbludov 's idea to make it more like the javadoc tree, so I 11:08 wanted to implement it, sans the "white space" nodes.

05:24

10:29

11:07

09:12

NM

NM

NM

ES

NM

NM

I have submitted a PR for text blocks today, and I am continuing to work on the grammar for it, then I will move onto coverage. Unless any mentors object, I will not be working on Monday, since I have the opportunity to take my family to the beach for the day. I have put in quite a few extra hours this week, and plan to next week as well to make up for it... I would like to get a few PRs merged next week if we can, please let me know what else I can do to make that happen.

Nick Mancuso

19:13

04:35

Check regression reports for text block grammar have been posted here: https://github.com/checkstyle/checkstyle/pull/8327#issuecomment-646775858. Everyone have a nice weekend!

23 June 2020

Nick Mancuso

Plan for today: Work on text blocks grammar and unit tests. I should be able to update the text block draft PR and mark it ready for review by tomorrow or Thursday. I need review on https://github.com/checkstyle/checkstyle/pull/8313 and https://github.com/checkstyle/checkstyle/pull/8294 from @romanivanovjr. I also need review on https://github.com/checkstyle/checkstyle/pull/8293 , https://github.com/checkstyle/contribution/pull/484 and https://github.com/checkstyle/checkstyle/pull/8320 from Richard .

Nick Mancuso

EOD: made progress on text blocks grammar; I should be able to finish it up tomorrow and begin work on unit tests. I plan to have PR updated with new grammar, unit tests, and check regression reports by Thursday, and mark it ready for review by the weekend.

Erik Silkensen

Awesome, thanks for all your hard work Nick, and I hope you were able to enjoy some time with your family yesterday.

Nick Mancuso

@esilkensen thanks, we did! Thanks for the input/ explanation on the text blocks issue. I sort of lost sight that logic for checks should come first, before the appearance of the printed AST.

24 June 2020

Nick Mancuso

Plan for today: continue refining text blocks grammar and writing tests. I will likely be able to run all regression reports so that the PR can be updated tomorrow by EOD.

Nick Mancuso

16:02

17:57

18:11

25 June 2020

	Nick Mancuso	05:01
NM	Plan for today: finish up text blocks PR and mark it ready for review.	
	Roman Ivanov	07:55
RI	https://github.com/checkstyle/checkstyle/pull/8294#pullrequestreview-437574268 - All, please review.	
NM	Nick Mancuso	11:17
INIVI	Opbludov is the code that is on the screen	
	here:https://youtu.be/qurG_J81_Cs?t=1065 valid java code right now? watched the video, but the auto-translations are not so good.	l have
PB	Pavel Bludov	13:40
ΓD	In reply to this message	
	No, in this video, Tagir tells us some details about pattern matching, we difficulties there are now and what is possible to develop in the future. that this is a presentation from 2018. Some of the plans have already materialized. Something continues to develop in https://openjdk.java.net/projects/amber/	
NM	Nick Mancuso	14:14
INIVI	Thank you for explaining. I was going to add it as a test case if it was, tried it and it wouldn't compile. On another note, is it ok to start a review item in my own PR? I have a question about the best way to reuse exist code in AstRegressionTest.java.	w on an
NM	Nick Mancuso	15:43
	Can anyone explain why I am getting this: https://teamcity.jetbrains.com/viewLog.html? buildId=2990971&tab=Inspection&buildTypeId=Checkstyle_IdeaInspect IRequest ? I copied the existing "AssertGeneratedJavaLexer" class and (testImpossibleExceptions and testImpossibleValid), which do not cau warnings. I understand what the warning means, I do not understand we existing class and tests don't cause them.	d tests se these
	Nick Mancuso	18:16
NM	EOD here: https://groups.google.com/g/checkstyle-devel/c/se7- Pjrag/m/zNQIAeKWAgAJ	

Check regression reports posted to text blocks PR; I had to upload them 18:18 to my s3 bucket since github didn't like the size of this report, so it took longer than usual. AST regression report will be posted as soon as it finishes tonight or first thing tomorrow morning.

NM

NM

NM

NM

review of your own PR: absolutely, I think in general it's a good practice to put up a PR and do a self review of it first thing even, check things over, add comments to help guide reviewers, provide context, call out things you're not sure of, etc.

(If I am understanding your question right - sorry, it is the end of a long week ☺[™] you might already be doing everything I just said!)

Nick Mancuso

04:16

Plan for today: rework TokenTypes.java in all PRs to new specification, determine if openjdk14 has any usage of enhanced instanceof, create input update for instanceof relating to checks that use VARIABLE_DEF.

@romanivanovjr for the enhanced instanceof input updates (for checks), 04:19 should I simply add to the existing input files, or create new inputs and tests? Should this be in a separate commit? Also: https://github.com/checkstyle/checkstyle/pull/8294#discussion r445638524

Nick Mancuso

While searching through openjdk14 for folders that we can uncomment in projects-to-test-on.properties, I found some more interesting enhanced instanceof usage. Is it ok to add them to the test inputs for instanceof PR even though two reviewers have approved already?

Nick Mancuso

Ok, so I tried to simply add test cases to the existing files, but (of course) now they won't compile. I am unsure how to proceed. should I create a new test suite, using all naming checks and others related to VARIABLE_DEF? For example, make one new java class with all naming related checks, in test/java.../naming/, then place the input file in a noncompilable directory, like the other java14 inputs?

Nick Mancuso

EOD report: all PR's updated with new TokenTypes documentation, researched instanceof usage further in openjdk, found some more input examples for testing, addressed all items in PR's, and begin creating input and setting up configs for instanceof check input updates.

Also, I began review on 13:54 https://github.com/checkstyle/checkstyle/pull/8327

27 June 2020

ES

Erik Silkensen

In reply to this message

re: making changes to PR's after approval - especially for something like adding additional test cases, that's likely a good change to make - and you can

11:08

10:16

13:53

	11.04
> Is it ok to add them to the test inputs for instanceof PR even though the reviewers have approved already?	
It is always good to add more test cases and test inputs, the more the b	etter :)
> should I create a new test suite, using all naming checks and others related to VARIABLE_DEF?	11:07
New input files in no compilable folders, location of test methods are in test classes.	existing
Please provide list of Checks that are affected by new variable_def location	11:12
We need to think is it possible to update Checks later on?, will it be fals positive or negative ?	e 11:14
Nick Mancuso	11:20
I will provide a list on Monday, but I have looked through almost all of the and about a third of them crash checkstyle, so we will have to update the now.	
Nick Mancuso	11:35
Most of the problem is that since the modifiers AST is null, many of the throw a null pointer exception	checks
Since this pattern definition is always final, could we make a "final" modifiers AST by default?	11:37
Roman Ivanov	11:38
I do not understand about final, please rephrase and extend	
Nick Mancuso	11:39
Photo Not included, change data exporting settings to downlo 506x78, 8.3 KB	ad.
In this rule, could we construct a modifiers AST with a "final" token by default, since a pattern definition is always final?	11:40
Erik Silkensen	11:42
Maybe a dumb question, don't have the code in front of me: could mode an empty array instead of null? Or is that not the right type, has to be a	
Nick Mancuso	11:43
It is an AST.	

N IN /	Nick Mancuso	11:46
NM	Some of the checks look at the modifiers to see if the variable is final, that why I thought maybe we should construct the "final" modifier AST by defations of the second	
	Erik Silkensen	11:48
ES	Yeah, it makes sense, though I wonder about fabricating syntax like that, possible to update the checks instead even if harder, maybe that's better	if iť s
NINA	Nick Mancuso	11:53
NM	Yeah, I feel like it is cheating a bit.	
	Plus, that would appear in the printed tree, and it doesn't really exist.	11:54
DI	Roman Ivanov	11:57
RI	We can not put in AST that doesn't exist in code, if no final modifier in code there should not be it in AST	de,
N 18 4	Nick Mancuso	11:59
NM	Ok, I agree. I will provide a list of affected checks on Monday, and begin creating tests and inputs. Should this work be a separate commit?	
	Roman Ivanov	12:12
RI	In general we do not allow to changes that break any functionality. But sit is not general. Without new instanceof grammar support we just throw pa exception, so it is blocker to use checkstyle at all. Ones we merge gramm change, exception is. moved from parser to Checks. Original problem is a clear signal that it is not supported, exceptions in Checks looks like bugs users.	
	Let's see your report first on what and how it failing. There should be exception when such new code is used.	12:14
	There will be relate tomorrow, so we can merge PR after release	12:17
	But before grammar change, we should have a plan of what Checks are affected, and create issues on each of them. To fix before next release (on July)	
	Nick Mancuso	12:37
NM	Sounds good. Does the checkstyle_checks.xml config have ALL checks i was thinking I could use that to test all checks if so.	n it? I
	Richard Veach	12:42
RV	yes, it does. we also have the regression checks in contribution. Those shouldn't have any checks suppressed while ours could.	

28 June 2020

29 June 2020

NM	Nick Mancuso Plan for today: make sure all CI is green in all PRs, address reviews in te blocks PR, raise issues for instanceof check exceptions, and post in ema thread.	
RI	Roman Ivanov @Nmancuso, please explain in your comment with table of affected Chechet https://github.com/checkstyle/checkstyle/pull/8294 how you get this list. Is just regression testing? There will be more problem in other checks but no exception and more like validation malfunction, We need to have a list of Checks that use VARIABIe_DEF, there should not alot, and we need to no them to see if they are affected.	s is lot as
	please put priority on instanceof more than work on other jdk14 features	07:55
	there will be a lot of PRs to make it work, so lets start sooner, review is not quick process.	07:56
	Nick Mancuso	07:58
NM	Something that I did not think about/understand when I first ran the check regression report for instanceof, was that the test input file was not merged; so that code was not tested, and these exceptions were not found. I ran check regression after that input was merged, and found these exceptions, which I have confirmed by running checkstyle_checks.xml on the input file, then each check separately.	
	I raised issues for each check	07:59
	Roman Ivanov	08:00
RI	please focus on completion of grammar update on instanceof, it is block for all other udpates, all other updates could be done in parallel	
	if CI start to fail on our Inputs of instance of - please exclude them till all updates to Checks are merged.	08:01
50	Erik Silkensen	08:03
ES	In reply to this message	
	Catching up on the threads - are there planned changes for instanceof grammar in addition to/before updating checks to take it into account as a kind of variable definition?	a new
	Nick Mancuso	08:03
NM	All CI for instanceof grammar is green, but wercker is still running. What do I need to do so that we can get it merged?	else

Roman Ivanov

RI

wercker is restarted, it was sonar, violation, I masked it as waontfix

650896023

N IN A	Nick Mancuso	09:09
NM	Should tests for possibly affected checks (that don't cause exception) be added to instanceof PR?	
RI	Roman Ivanov	11:16
Γ	No, update for grammar should has only grammar update and related inp for parser tests	outs
	All other be addressed in later on PRs, module by module.	11:16
NM	Nick Mancuso	11:17
INIVI	Should I make issues for them, too?	
RI	Roman Ivanov	11:17
IXI	Yes, we need merge grammar update and have clear plan on what is affer and what needs to be fixed	ected
NM	Nick Mancuso	11:19
	Ok, I was working on fixing and making inputs for HiddenFieldCheck (for instanceof), I will stop and make all issues (issues with exceptions are malaready) is there anything else I should be working on today?	
	Also, should I make one "master" issue for all instanceof check updates, like we had with the pitest issue, and link to individual issues?	11:21
NM	Nick Mancuso	15:20
LAIVI	EOD report: I have created issues for all checks that utilize the VARIABLE_DEF token, identified those that are causing exceptions, add inputs to instanceof PR, and made CI happy for instanceof PR. I am post email thread now. Tomorrow, I plan to provide more information/context in issues I've posted today. Please let me know what exactly I can provide t make review of these issues as quick and easy as possible. As it stands, to compare the grammar outlined in JLS/JEP to determine if certain check should be impacted by the addition of instanceof grammar, then target spusages of instanceof to see what should be caught by checks. I have protothe normal bug report information for those checks that throw exceptions already.	ing in n the o I plan ks pecific vided
NM	Nick Mancuso	17:40
INIVI		

Email posted: https://groups.google.com/g/checkstyle-devel/c/-_se7-Pjrag/m/zNQIAeKWAgAJ

30 June 2020

	issues contained in one place. After this is done, I will begin to post addit information and context to each issue.	
N IN A	Nick Mancuso	05:39
NM	Main tracker issue for validation of checks related to #8294: https://github.com/checkstyle/checkstyle/issues/8391	
	I can begin work on the checks that throw a NPE as soon as their issues are approved	05:40
	Roman Ivanov	06:29
RI	https://github.com/checkstyle/checkstyle/pull/8294 - is approved and movel last review to Richard. @Nmancuso, please recheck generated reports to make sure all still works fine even we changed AST a bit. It would be away if you send PR to print generation data-time in diff reports.	o
5 15 <i>4</i>	Nick Mancuso	06:31
NM	I did not change the implementation of the grammar, it has been the sam since I submitted the PR. I just ran reports two days ago, and would be h to share them or run them again if you would like.	
	Roman Ivanov	06:32
RI	Lets rerun them and be safe.	
	Nick Mancuso	06:32
NM	Of course, I will start them now, and head over to contribution.	
	Please note, that checkstyle "project" for check regression will throw NPE	206:33
RI	Roman Ivanov	06:34
	add extra exclude for several files	
	that has patterned instanceof	06:34
N IN A	Nick Mancuso	06:34
NM	Will that work for check regression? I thought excludes were ignored for regression.	
	Roman Ivanov	06:34
RI	oh, yes, you ar right	
	ok, wec will be aware of NPEs in chekstyle	06:35
N IN A	Nick Mancuso	06:36
NM	Roman, can you take quick look at https://github.com/checkstyle/checkstyle/issues/8364 and let me know if all the information that we need? If so, this is what I will provide for all rela issues	

ES

NM

and prepare for massive PRs review. @Nmancuso , please focus on Exceptions first. There might be no updates in Check required, if so, just prove this in issue and let mentors close it without changes. My review is not required merge all that PRs, @esilkensen and @pbludov review (2 reviews) will be enough. I need to go back to other projects, as they are not in good state.

Erik Silkensen

In reply to this message

Thanks Roman, that all sounds good

Nick Mancuso NM

I think I've finished up everything in contribution; what is the best way for me to proceed with fixing checks that throw NPE, since instanceof PR is not merged? Make a new branch from instanceof PR branch, and base work off of that?

Nick Mancuso

EOD report: since I got an early start today, I'm wrapping up now. I have opened two PR's in contribution today: https://github.com/checkstyle/contribution/pull/489 and https://github.com/checkstyle/contribution/pull/488, made a parent issue for all instanceof check validations https://github.com/checkstyle/checkstyle/issues/8391, and updated several of the child issues, namely https://github.com/checkstyle/checkstyle/issues/8364, https://github.com/checkstyle/checkstyle/issues/8366, and https://github.com/checkstyle/checkstyle/issues/8367. New reports for instanceof PR are still running, I will post them in PR as soon as they are ready.

@romanivanovjr I'm not sure if this was intentional or you just ran out of 11:23 time, but I still need approval on https://github.com/checkstyle/checkstyle/issues/8362, https://github.com/checkstyle/checkstyle/issues/8361, https://github.com/checkstyle/checkstyle/issues/8360, and https://github.com/checkstyle/checkstyle/issues/8359. Thank you.

Roman Ivanov

Approved.

>Make a new branch from instanceof PR branch, and base work off of 13:08 that?

Yes, in PR description just mention that first commit is from another PR

Nick Mancuso NM

15:25

13:06

Re-running reports, they failed with: Exception in thread "main" java.lang.Error: Error was thrown while processing /home/nick/development/contribution/checkstyletester/src/main/java/checkstyle/src/test/resources/com/puppycra

RI

11:21

08:02

	.processExpression (ParenPadCheck.java: 325) Unusual, I've never had this issue before. I will update instanceof PR wit reports as soon as they are done.	h new
	1 July 2020	
NM	Nick Mancuso	04:51
	Plan for today: begin working on all checks affected by instanceof that the NPE. Since I had to restart reports for instanceof PR, they are still running should be done by EOD today.	
N I N /	Nick Mancuso	08:40
NM	Richard https://github.com/checkstyle/checkstyle/issues/7290#issuecom 638979390	ment-
	Richard Veach	08:40
RV	Thanks.	
	I am trying to review the PRs now.	08:41
NM	Nick Mancuso	08:45
INIVI	I have new check regression reports running, I've been having some ran weird problems.	dom
	The grammar has not changed since the ones that I have posted, though.	08:45
	Richard Veach	08:47
RV	V It depends on what you have been seeing. It is possible some checks coul not be fully deterministic and have an ounce of randomness to them. I wou keep track of which checks and issues you have to see if one comes to lite us know if we can help further.	
N IN /I	Nick Mancuso	08:47
NM	https://travis-ci.org/github/checkstyle/checkstyle/builds/703921603 could have anything to do with openjdk being down?	these
	Twice it was failure to delete a directory, once was what I noted above.	08:48
	Richard Veach	08:49
RV	https://travis-ci.org/github/checkstyle/checkstyle/jobs/703921612 To me, seem unrelated as it just lost output from the computer. We don't know w happened that it lost that connection.	-
	I see they are all JDK14 builds. That is strange. I tried restarting them.	08:51
N 15 4	Nick Mancuso	08:53
NM	Thank you. I just re-confirmed that all jdk14 files I added DO compile	

This is down, too: https://hg.openjdk.java.net/jdk/jdk

ΚV	if you already downloaded HG OpenJDK, you can change it to a folder for regression to prevent regression from trying to poll the server	r
	Nick Mancuso	09:00
NM	I nuke the repo directory after every run to avoid issues. Can I just use th read-only github mirror?	e
	Richard Veach	09:00
RV	thats fine too.	
	What issues do you have that you have to nuke the directory?	09:01
N IN A	Nick Mancuso	09:02
NM	None now, but I was going back and forth between my fork of openjdk (I deleted the deeply nested lambda files) and the regular one, and was too to rename the project :)	lazy
	jdk14, that is	09:02
	So I just added a "clean" type of operation to my script, figured it would help eliminate any random stuff.	09:03
	I have 1000Mbps connection, so it really doesn't slow things down	09:03
	Richard Veach	09:04
RV	of course, just will degrade your HD. :)	
	Nick Mancuso	09:04
NM	Shoot, didn't think about that, good point.	
RV	Richard Veach	09:06
ΓV	If memory serves me, I don't think the groovy scripts poll the repo after th download. It copies the files over during regression, so the main repo sho remain unchange after any regression run.	
	Those JDK14 builds failed again, I would assume it is related to the JDK servers being down.	09:12
N 18 4	Nick Mancuso	09:12
NM	No versions lower than 11u are on github	
	This is where it keeps failing: Removing non referenced xref files	09:21
	in report	
	[delete] Deleting directory /home/nick/development/contribution/checkstyle-	
	tester/src/main/java/openjdk9	
	[move] Moving 17362 files to	
	/home/nick/development/contribution/checkstyle-	
	tester/reports/openjdk9	

what generates this part of the output? The next line should be: openjdk9 is synchronized but it just hangs 09:22 **Richard Veach** 09:23 RV https://github.com/checkstyle/contribution/blob/master/checkstyletester/launch.groovy#L261 its probably hanging in this method, 09:23 https://github.com/checkstyle/contribution/blob/master/checkstyletester/launch.groovy#L125 that is the clone utility where it brings in a brand new repo. 09:24 Nick Mancuso 09:25 NM Ok, so that at least clears up why everything is failing right now. I thought I broke everything! I am going to comment out the mercurial java projects, and continue with 09:27 the remaining reports. I had about half done before all this started happening. for instanceof, that is. 09:28 **Nick Mancuso** 17:55 NM EOD report: just submitted latest check regression reports to #8294 (instanceof), updated PR. Submitted a PR for https://github.com/checkstyle/checkstyle/pull/8392, submitted a patch in contribution, and added some information to several of the instanceof related issues. I had a personal matter to attend to, and openjdk site was down, so today was not as productive as I had hoped. I'll be back on it tomorrow. Could a mentor please restart the CI for https://github.com/checkstyle/checkstyle/pull/8392 ? I think openjdk is stable now. 18:01 I'm running the missing projects (openjdk) from earlier right now. Can a mentor take a look at this: 18:10 https://github.com/checkstyle/checkstyle/pull/8392/commits/20a60fdacaf5f50e7 d016158d43ca8248a11c409 and let me know if this is ok? I will be making my other branches from this commit for the remaining instanceof check issues, and will be using this utility in many of them. 2 July 2020 02:26 **Erik Silkensen** ES In reply to this message Restarted JDK 14 build, also edited your PR description to reference the Issue # for the stacked commit so the grep check passes, all green now

In reply to this message

Sounds like a good plan to me - I left a question in the PR

	And post in email thread	05:25
NM	Nick Mancuso	09:31
INIVI	Richard https://checkstyle-reports-	
	java14.s3.amazonaws.com/reports/instanceof_report/index.html	
	If this is too crowded, or you need anything else, let me know	09:31
RV	Richard Veach	11:35
IXV	I don't think it's that crowded. I notice some variables are missing like try resource, lambda parameters,	
NM	Nick Mancuso	12:08
NIVI	I'm on it	
NM	Nick Mancuso	13:02
INIVI	@esilkensen hold up on reviewing any of those instanceof PRs, we migh making some changes I think.	nt be
	Richard report is updated	13:14
RV	Richard Veach	13:18
	@ni	
	@Nmancuso What about other variables like method parameters? We are looking of a complete list of everything considered a variable.	13:19
	Class fields is another one.	13:20
	Sorry see the method parameter now.	13:21
NM	Nick Mancuso	13:21
INIVI	Ok, I must've misunderstood what we needed. I thought we just needed at variables/parameters that are declared in a construct of some sort, not block.	
	Declared, and then used in the block of the construct.	13:22
RV	Richard Veach	13:22
IXV	@romanivanovjr Wanted a list, I didn't see what he wrote, so maybe he c confirm the exact scope.	can
	We were talking about pattern variables, and it delved from there as we discuss how we handle other variables in the grammar	13:23
	Nick Mancuso	13:23
NM	Roman's message: "we need you review AST for all cases where variabl declared in non block {} but in expression or some special contruction	

try, catch,)"

ΚV	ok, I didn't realize he wanted statements/expressions. So that rules out fi	elds.
	If thats everything, then thats what we want. We just wanted to be sure we looked at everything.	13:25
N IN /	Nick Mancuso	13:26
NM	Thanks for the lambda and try with resources suggestion, I was on the fe about including lambdas, but I guess more information is always better.	ence
	Richard Veach	13:28
RV	try with resource was in our talks, so yea, I would assume everything and anything that can be written inside a method.	t
N IN /	Nick Mancuso	13:33
NM	On one hand, when comparing all of the others, the "PATTERN_DEF" no does seem extraneous/ out of place. If anything besides just making it a "VARIABLE_DEF" only, I think a "PATTERN_VARIABLE_DEF" replacing "PATTERN_DEF" and "VARIABLE_DEF" nodes would be good.	
	From JLS: A variable declared in a pattern is known as a pattern variable	13:34
	Just my two cents.	13:34
	Since records is green and approved, and we seem to be in a holding pattern for instanceof, I am going to continue work on text blocks unless mentors object.	13:45 any
NM	Nick Mancuso	15:51
INIVI	EOD report: https://groups.google.com/g/checkstyle-devel/c/se7- Pjrag/m/JgiCredqAQAJ	
N IN /	Nick Mancuso	17:49
NM	I have converted all PRs except initial record grammar and enhanced instanceof to draft status, since all is subject to change, and not worth reviewing at this point. Tomorrow I will keep adding more info to instance issues that don't rely on grammar/ implementation (non-NPE checks) and working on text blocks.	
	3 July 2020	
	Nick Mancuso	05:16
NM	Plan for today: try to figure out where I need to add a suppression to make	ke

Plan for today: try to figure out where I need to add a suppression to make TeamCity happy for text blocks PR (I got it working locally), dig a little deeper into out of order first token for text blocks, and add some more info to a few of the instanceof check issues (those that aren't related to implementation).

Nick Mancuso

Nick Mancuso pinned this message

Nick Mancuso

@esilkensen I just wanted to let you know that it seems like we are in a holding pattern for instanceof, that's why I didn't update the PR yet to fix Travis. I didn't want to waste CI time just for that, when I might have to rewrite much of the PR anyway. Should I mark it draft for now, too? I don't want you to waste time reviewing things that might change anyway.

Erik Silkensen

ES

NM

ES

NM

ES

In reply to this message

All right, thanks - sorry, what is the holding pattern / are you blocked on instanceof? I see Roman's comment from yesterday about adding additional test inputs.

Nick Mancuso

No, basically, we may have to completely rehash the grammar, so I'm just waiting to hear what the final decision is. We may not be using the VARIABLE_DEF token anymore.

Erik Silkensen

Sounds good, so just checking I am up to date / not missing a thread: are Roman and Richard discussing this offline (not in a PR or this group) and will decide what they want to do?

Nick Mancuso

That's correct, it was in PR too, but I think that conversation got marked resolved.

If you have time this weekend, if you could help sift through any of these 11:55 that would be awesome: https://github.com/checkstyle/checkstyle/issues/8391. Not implementation details, since that's up in the air, but if they actually apply. I just want a second/ third opinion for any before I close them.

That's really the only type of "reviewing" we need right now. Records is 11:57 green and lots of approvals, and text blocks is green too, but I'm not happy with implementation, so it is still marked draft.

Erik Silkensen

I wasn't able to find discussion in the PR besides Richard saying "only thing I really question is new VARIABLE_DEF being created from PATTERN_DEF" and then Roman asking about additional test input "after discussion with Richard."

Based on that, my understanding would have been: everyone was basically in agreement about the grammar, go ahead and add more test input, and let's move forward with addressing the impacted checks.

11.00

11:41

11:47

11:36

11:52

NM

Anyway, I don't mean to throw a wrench into anything here - if you are good, and Roman and Richard are good, then it's all good on my end too of course and I will be happy to help out however I can with whatever path we go down...

aia, i will oncon thom out nom my computer.

Nick Mancuso

12:21

Yes, there was some private discussion, I think implementation is subject to change right now. Regarding the checks, I should clarify; which checks should and shouldn't apply. I thought that maybe, just based on syntax, we can determine whether certain checks will/ will not apply, right? For instance, we were able to rule out https://github.com/checkstyle/checkstyle/issues/8367 regardless of implementation.

I just got my review from first evaluation, thank you for all the positive 12:27 comments and encouragement.

	Erik Silkensen	12:29
ES	In reply to this message	

Ok, yeah just wanted to make sure you weren't waiting on something unnecessarily - it sounds like you are set for now! I will check out the list

RI	Roman Ivanov	12:30
	https://github.com/checkstyle/checkstyle/pull/8294 please do add inputs, not blocking, inputs do not depends on AST structure	, it is
NM	Nick Mancuso	12:31

Ok, I will do that now.

RI Roman Ivanov 12:33 Please update inputs all affected Checks and even write expected behavior, no matter how AST will be Check behavior is be the same

You can start the same activity for other grammar changes :), you are 12:35 almost never blocked

We found all affected Checks, no matter what we will deside on how AST 12:49 should looks like, Checks behavior must not change.

We can prepare inputs, noncompilable inputs, we create even UT 12:52 methods that declare expected behavior. While grammar is not ready , we keep such methods ignored by annotation. We merge all that. During grammar update we can simply remove ignore annotation and that will be prove that it works

Nick Mancuso

NM

12:53

I agree, however, to find checks affected due to existing token usage, we will need to decide based upon implementation. For instance, I would not want to close an issue on a check that could cause a false positive/ negative based on

right?

	Roman Ivanov	12:55
RI	By reuse of tokens, we found all Checks that are affected, even we use different tokens, all that Checks need to be updated to be aware that vari can be declared even here. There will be no exception but we should pre false positives.	
	While you're blocked, you create inputs and expected behavior declaration. Beauty of our tests that they do not depends on implementat all.	12:57 ion at
N 1 N /	Nick Mancuso	12:58
NM	I think that this has been a good exercise, maybe it is better to make a ne token to avoid unintended side effects.	ew
	Roman Ivanov	13:00
RI	New tokens is good to do less work :), but ones users start to use new sy they will get numerous false positives	yntax,
N IN A	Nick Mancuso	13:01
NM	"The developer team of checkstyle is really a lazy bunch of people" :)	
	Roman Ivanov	13:02
RI	Even we start to use new tokens, we can delay fixed in Checks, yes. But least we know all affected :), much better situation than waiting for users reports	
	Nick Mancuso	13:11
NM	What annotation should I use to ignore unit tests?	
RI	Roman Ivanov @Ignore	13:12
	There might be complains from checkstyle on usage of it, I am ok to suppress violation with comment "until issue "	13:14
	@esilkensen @pbludov , do you understand what I am proposing ? You will not need me to merge such stuff, it will speed up process.	13:17
ES	Erik Silkensen	13:32
	In reply to this message	
	Yes, just reading back to check I am understanding: we want PR's that ac	dd test

Yes, just reading back to check I am understanding: we want PR's that add test cases for affected checks, testing those checks on new instanceof syntax, and they will be @lgnore'd for now - these are the PR's to merge without needing your approval, right?

Roman Ivanov

N IN /	Nick Mancuso	05:47
NM	instanceof PR is ready, all reports posted and CI is green: https://github.com/checkstyle/checkstyle/pull/8294	
NM	Nick Mancuso	06:05
INIVI	Wait, here was a problem with the check regression reports, I'm going to them again.	run
	AST regression is still good, master branch was not good for check regression	06:18
RI	Roman Ivanov	07:39
Γ	@Nmancuso, please explin why you selected this structure	
	<pre>`LITERAL_INSTANCEOF (instanceof) IDENT (obj) `PATTERN_DEF `PATTERN VARIABLE DEF</pre>	
	what if we do:	
	<pre>`LITERAL_INSTANCEOF (instanceof)</pre>	
	Nick Mancuso	07:46
NM	Your comment in the "instanceof AST" thread: " so question is: How to structure AST?	
	 "PATTERN_DEF / VARIABLE_DEF" "PATTERN_DEF / PATTERN_VAR_DEF"" led me to believe that in eit case, "PATTERN_DEF" was to remain the parent node of either "VARIABLE_DEF" or "PATTERN_VAR/VARIABLE_DEF" 	her
NM	Nick Mancuso	17:49
INIVI	Closed old pr, new one is here: https://github.com/checkstyle/checkstyle/pull/8401	
	6 July 2020	
NM	Nick Mancuso Plan for today: get check UTs squared away for instanceof, get reports p to instanceof, post in email thread. @romanivanovjr can you create a ne channel for full records support AST?	

Nick Mancuso

Mentors, I have raised new issues for the effected checks that we identified in the old instance of PR that caused NPE (they do not cause NPE anymore), and closed the old ones. I need approval on these last eight issues in main tracker issue: https://github.com/checkstyle/checkstyle/issues/8391

base them off of instanceof PR again?

NM	Nick Mancuso	08:15
INIVI	I have to add a few suppressions across multiple config files, then go ba make all new PRs to un-suppress everything. It would save time not to d Couldn't we just add "blocked" tag to PR for check UT?	
RI	Roman Ivanov	08:20
1 / 1	> can you create a new channel for full records support AST?	
	lets keep discussion in PR for now.	
RI	Roman Ivanov	08:35
	https://github.com/checkstyle/checkstyle/issues/8409 - should we make Check for join FinalLocalVariableName ?	special
	Naming Checks are not affected when new token is introduced and we almost agree to make new Check on this. There are more problems in C that use VARIABLE_DEF in logic to find something.	08:39 Checks
FO	Erik Silkensen	08:40
ES	In reply to this message	
	Agreed, this sounds good to me	
	Roman Ivanov	08:40
RI	> do I still need to @Ignore UTs, or can I just base them off of instance again?	f PR
	you can base of PR with grammar fix, as we close to merge.	
	Nick Mancuso	08:42
NM	Awesome. My reports are almost all uploaded to S3, but openjdk is/was again, so the last few reports are missing openjdk projects. I will post wh have as soon as they are uploaded.	
NM	Nick Mancuso	09:37
INIVI	Reports are posted: https://github.com/checkstyle/checkstyle/pull/8401#issuecomment-65407	11201
N 18 4	Nick Mancuso	16:20
NM	Kinda EOD report: remaining check regression reports (java projects for instanceof PR) are almost complete, I will post tonight. I have addressed issue raised in reference to check support for pattern variables. I would I at least one mentor approval before closing any check related issues, ar have mentioned @esilkensen and @pbludov in many of them for a secon opinion. I submitted a PR for AbbreviationAsWordInNameCheck:	d each like at nd I

https://github.com/checkstyle/checkstyle/pull/8412 and CI is green.

	My plan for the week is to resolve all checks related to instanceof, and submit a draft PR for full records support so that we have lots of time to discuss AST structure.	16:23
	Nick Mancuso	19:57
NM	Email in thread: https://groups.google.com/g/checkstyle-devel/c/se7- Pjrag/m/32Uc_KyyAgAJ	
	All missing java project reports posted to instanceof PR: https://github.com/checkstyle/checkstyle/pull/8401	19:57
	7 July 2020	
N I N 4	Nick Mancuso	04:53
NM	Plan for today: work on checks for instanceof. I need to run out for a coup hours mid-day, in case I don't respond right away. @romanivanovjr and a else, please add thoughts/ and discussion tag to this: https://github.com/checkstyle/checkstyle/issues/8414	
	Roman Ivanov	05:59
RI	Issue is closed with comment.	
RI	Roman Ivanov I reopened several issues on Checks that were affected by old instanced implementation, @Nmancuso, please review them and provide prove the false-positives and false-negatives.	
	Erik Silkensen	07:51
ES	In reply to this message	
	Thanks Roman, I had made a first pass on those last night with my best and appreciate the second set of eyes.	guess
	I wasn't sure I understood your comment on reopening the unused impor check - it seemed what Nick posted was the correct behavior, but certain is a check we want to make sure is working correctly.	
N I N /	Nick Mancuso	08:13
NM	Wouldn't we only really know if the import is "used" at runtime?	
	Should we check for usage in the IF block?	08:14
	Erik Silkensen	08:19
ES	I think for the purposes of that check "used" means an import is reference somewhere in the file, regardless of whether it may possibly be executed not. So we would want to confirm that if an import is only used in a patter variable definition, the check detects that as a used import. Similarly if an import is not used we would want to make sure a pattern variable can't	l or 'n

interfere and suppress the violation.

anaonyng iberti .

NM	<pre>Nick Mancuso import java.awt.Component; class FooBar { private Object Component; // a bad practice in my opinion</pre>	08:21
	}	
	@esilkensen from the check documentation ^^^	08:21
	But this example is ok, and will not be flagged.	08:23
	Well not ok, but not detectable by the check.	08:29
ES	Erik Silkensen Yes, that makes sense - that Component is just a variable name and not reference to the imported class.	08:31 a
	Looking at the check, I think the question is does it already do what we w for pattern variables, so picking up the type name ident and including that list of references	
NINA	Nick Mancuso	08:34
NM	From my example, that shows that it works as intended, and yes, the che itself is looking at IDENTs. To cause a violation, I should just import some else and not use it?	
		08:36
	Photo Not included, change data exporting settings to downloa 478x106, 10.0 KB	d.
	It's definitely hitting that IDENT.	08:37
50	Erik Silkensen	08:44
ES	Oh sorry, I didn't read close enough - I would have assumed the check w smart enough to detect that the Component variable above was NOT an reference and so there should be a violation.	
	In which case, never mind my comments about needing to check whether an ident is part of a type name or not and as far as I can tell th issue isn't impacted by your PR and can be closed, so I defer to Roman others to continue	
RI	Roman Ivanov For reopened issues, just share prove by CLI	08:57

Nick Mancuso

RI	Roman Ivanov	13:33
Γ	Use type only in pattern, Check should not complain on unused import	
ES	Erik Silkensen	13:42
LO	In reply to this message	
	I think that is what Nick was showing here https://github.com/checkstyle/checkstyle/issues/8379#issuecomment- 654548538	
NM	Nick Mancuso	16:40
INIVI	EOD report: I have just posted a new PR for PatternVariableNameCheck https://github.com/checkstyle/checkstyle/pull/8417. Today, I have address check issues raised by instanceof PR, and determined whether or not act must be taken.	ed all
	Over the next few days, I plan to resolve all issues, and update all checks be completed by Friday. For the existing instanceof check PRs, I will drop (now conflicting) previous instanceof PR commit, and rebase (I'll do this tomorrow so we can merge sooner). I expect to have Full records suppor PR up by Friday afternoon.	the
	Please note that I am taking my planned vacation next week, but I will stil on having some limited interaction/ coding later in the week.	l plan
	Mentors, what is your feeling about my progress so far? Do you think I will be able to successfully complete my proposal on time?	16:42
RI	Roman Ivanov	18:04
	@Nmancuso , please try to focus on other grammar changes before vaca to provide us bunch of information to think of (AST strucuture and) wh you are out	
NINA	Nick Mancuso	18:04
NM	Ok, text blocks is up, the only one left after full records is switch, right?	
RI	Roman Ivanov	18:04
	It is better to worok on Checks updates when you are blocked by us to made it decision on how to make it	ake
NM	Nick Mancuso	18:05
	Ok, no problem. I thought we wanted to make sure we had full support for instanceof before the next release, that is why I had other plan.	r
DI	Roman Ivanov	18:06
RI	nobody use instaceof in code so no user for Checks :)	
NM	Nick Mancuso	18:06
1 1 1 1	Then: change of plan. I will have draft PRs for all remaining grammar cha by Friday. Checks will wait, except I have PatternVariableNameCheck aln	-

	and not that much people use latest chekcstyle version	
	> what is your feeling about my progress so far?	18:09
	we are ok. I still think we will be able to complete on time. First grammar update showed us all details that we need to keep in mind, so all others w have less pause and we know what to expect from update.	vill
NM	Nick Mancuso	18:13
INIVI	For records, would grepping for checks that use the CLASS_DEF token b good approach to figuring out what is effected?	be a
RI	Roman Ivanov	18:22
RI.	CLASS, ENUM, INTERFACE all type declarations related Checks might affected. We need to grep all and review case by case. For example https://checkstyle.sourceforge.io/config_design.html#InnerTypeLast might result in false negatives, but it is minor priority. As High priority we need to resolve Checks that are fail with exceptions. As major priority resolve false positives, last priority false-negatives.	it o
NM	Nick Mancuso	18:26
INIVI	For text blocks, all string-related checks? final variable check, what else?	
RI	Roman Ivanov I can not find quickly affected, we do not validate string content that much	18:30 า
	Nick Mancuso	18:31
NM	ok, I will post a proposed list this week, so we have time to think on it.	
	Nick Mancuso	19:32
NM	Hey guys, I made a mistake, my vacation is the week after next (week of 19th), as stated in my proposal. My apologies.	the
	8 July 2020	
	Nick Mancuso	04:43
NM	Plan for today: work on full records grammar.	
	Nick Mancuso	12:01
NM	Let's discuss: https://github.com/checkstyle/checkstyle/pull/8422	
	Nick Mancuso	16:12
NM	EOD report: submitted PR for full records support: https://github.com/checkstyle/checkstyle/pull/8422, submitted PR for https://github.com/checkstyle/checkstyle/pull/8421, rebased and dropped instanceof commit for https://github.com/checkstyle/checkstyle/checkstyle/pull/8412 https://github.com/checkstyle/checkstyle/pull/8413, and have reports run	and

5 JUIY 2020

NM	Nick Mancuso	03:47
INIVI	Plan for today: post in email thread, work on enhanced switch gramma reports to full records PR.	r, post
	Nick Mancuso	05:01
NM	All reports posted to full records PR:	
	https://github.com/checkstyle/checkstyle/pull/8422#issuecomment-655	698342
NM	Nick Mancuso	06:29
INIVI	Mentors, can one of you relay this failure? https://app.wercker.com/checkstyle/checkstyle/runs/build/5f06f1d5dac8 af18a0	5630008
	Roman Ivanov	07:11
RI	This project is in good enough state for now, I need to focus on patchfil project (it in very bad state), so I will be less active here. Mentors, plea in.	
	Wercker is restarted, some download problem	07:13
NIM	Nick Mancuso	16:26
NM	EOD posted in email thread: https://groups.google.com/g/checkstyle-dese7-Pjrag/m/EumLcfbFBgAJ	evel/c/-
	Put about four hours into the switch expression grammar today, it ender up being more complicated than I thought it would be. I hope to make s headway tomorrow. All reports are posted to full records PR.	
	10 July 2020	
	Nick Mancuso	04:56
NM	Plan for today: keep working on switch expression, add more info to re PR.	cords
	Roman Ivanov	07:08
RI	Mentors, I remind that when we create new Input we put in it config of comment above Class and trailing comments in line with violation - https://github.com/checkstyle/checkstyle/pull/8412/commits/58619d5fa 405f182195b7cc7180f0a0c96#r452865287 . One day in future we will config and violations from Input file. @Nmancuso , is it possible to reus Check to enforce it ?	74d372 read
	Nick Mancuso	07:12

Nick Mancuso

NM

Add a test to check all input files for a block comment at the top of the file regarding config of check?

	446435202 is possible to implement, and we will relax on this, build will ch it	neck
	Nick Mancuso	07:25
NM	Are there any examples of something similar? I'm not sure what the best we to do this is.	way
RI	Roman Ivanov	07:32
	I instructed Nick in private message on how to reuse RegexpMultiline, I how will work.	ope it
NIM	Nick Mancuso	12:33
NM	@pbludov sorry about the permissions, S3 is weird. I am setting all to pub again, it should be done in about five minutes or less	olic
	@pbludov let me know if it is still not working	12:43
PB	Pavel Bludov	13:18
	In reply to this message	
	Works now, thank you.	
	Actually no. Some of them are accessible, others are not. For example: https://checkstyle-reports-java14.s3.amazonaws.com/reports/full-records- support_check_diff_reports_2020_07_08/diff_part1/checkstyle-with- excludes/xref/home/nick/development/contribution/checkstyle- tester/repositories/checkstyle-with-excludes/src/test/resources- noncompilable/com/puppycrawl/tools/checkstyle/grammar/java14/InputJav Records.java.html#L14 Maybe we should wait longer.	
	Nick Mancuso	13:22
NM	Ok, either way, I was able to get rid of the instanceof and initial record rep from github.io, so I just pushed them to github. I'll post the links for them ri now.	
	Links to github.io are posted now too, but it seems to be taking along time for them to populate.	13:33
NM	Nick Mancuso	13:50
	https://travis-ci.org/github/checkstyle/checkstyle/jobs/707008420 can som restart CI for https://github.com/checkstyle/checkstyle/pull/8435	eone
NIN/	Nick Mancuso	14:33
NM	https://codecov.io/gh/checkstyle/checkstyle/compare/aa41a0f7c4c1393ec c7cfd7f9194a1006759e759a60f74f65c163feb25fe2155ad0bc6c742a7 is new?	

Nick Mancuso

	statements.	
	Erik Silkensen	16:49
ES	Sounds good — I know I have several things in my queue that I haven't yet, I am planning to catch up this weekend.	t got to
	11 July 2020	
N IN A	Nick Mancuso	11:45
NM	Mentors, if you have any tine this weekend, please provide some feedb the text blocks PR:https://github.com/checkstyle/checkstyle/pull/8327	ack on
	I think that everything is working great, other than the TEXT_BLOCK_BEGIN token being out of order; I'm not sure if that is a breaker or not, please let me know.	11:46 deal
	I am going to keep trying on switch expression grammar until Monday afternoon EST, if I can't figure out what causing the problems with type lambdas, I will create a detailed report to provide so that I can get some suggestions.	-
	Roman Ivanov	12:09
RI	Where can I read on reason to have endofline in text blocks ?	
N IN A	Nick Mancuso	12:22
NM	https://groups.google.com/g/checkstyle-devel/c/se7-Pjrag/m/32Uc_Ky , https://groups.google.com/g/checkstyle-devel/c/se7-Pjrag/m/JgiCred , https://stackoverflow.com/questions/62705997/antlr-2-token-stream- multiplexing-why-are-my-tokens-out-of-order , https://groups.google.com/g/antlr-discussion/c/MdTqaDv0ZA4	
		12:25
	Photo	
	Not included, change data exporting settings to downlo 538x238, 21.5 KB	ad.
	Basically, everything works according to the guide here: https://www.antlr2.org/doc/streams.html, except our "DOC_OPEN" (TEXT_BLOCK_BEGIN) is coming after our "DOC_CLOSE" (TEXT_BLOCK_END), not the beginning, like in this diagram:	
	I have traced though the execution of this for many hours, and can't understand why this seemingly simple operation isn't working as intend	12:30 ed.
	I'm really out of ideas at this point, honestly, and what I've done works great tracking the line numbers, the location of the delimiters, etc, exce this one unexpected behavior.	12:32 pt for
	The downfalls of the three other implementations I tried were the difficulty/inconsistency in tracking line numbers and the locations (colur	12:36 nns) of

can you point me to your antIr that is having problems?

	Nick Mancuso	12:38
NM	https://github.com/checkstyle/checkstyle/pull/8327/files#r446170918	
RV	Richard Veach	12:39
1 1 1	I see parsing gets content, then end and then begin again	
	why isn"t it begin, content, end?	12:40
NM	Nick Mancuso	12:40
	That's what I don't understand.	
	That's what order the tokens should be in, of course, but the TEXT_BLOCK_BEGIN token is being returned after the second lexer	12:41 is done
	Richard Veach	12:42
RV	what is the "!" for?	
	Nick Mancuso	12:42
NM	to not attach the AST then, to attach it in the action	
	So that I can fix the order	12:42
RV	Richard Veach	12:43
IXV	so your saying if you move line 1657 to 1655, the parsing fails?	
NM	Nick Mancuso	12:43
INIVI	Thats correct	
	the tokens are out of order, and I cannot figure out why	12:44
	This has been very frustrating, because everything else about this implementation work perfectly	12:44
RV	Richard Veach	12:45
ΚV	I would need to look into this more to help understand it	
	why is the text block grammar split into a new file?	12:45
	also "\r\n" isn't evil dos. Its Windows line endings	12:46
	Window users may take offense to that	12:46
	< Windows user	12:46
NM	Nick Mancuso	12:46
1 1111	Because to parse only the content, and return a separate token, the re	egular

lexer can't handle that.

	Nick Mancuso	12:47
NM	I don't care what kind of line endings you use :)	
	I'm curious, if everything else works great, is this a dealbreaker?	12:49
	the one out of order token, that is.	12:49
RV	Richard Veach	12:50
IXV	can you point to me where the example output tree is?	
	nm found it	12:50
	it was collapsed	12:50
	https://github.com/checkstyle/checkstyle/pull/8327/files#diff- 005f4a4ab29fcdadc426ab80fbcda6c3R106	12:51
	I am not seeing anything out of order	12:51
NM	Nick Mancuso Right!	12:51
	What I did in the grammar does produce the intended AST	12:51
	Richard Veach	12:53
IXV	the ouput is the most important imo, if it is right, then a weird limitation old code is fine to me	n of an
	antlr is using version 2 instead of 4	12:53
	Nick Mancuso	12:54
NM	That is great to hear. The way I did this with the second lexer, IMO, is the only way to handle all the escapes and everything that can be in a text block, and differentiate between a typed '\n' and a real control character	
RV	Richard Veach	12:55
IXV	we can make a note/issue to try to understand why the grammar codi weird, but correct output shouldn't stop you	ng looks
NM	Nick Mancuso	12:55
INIVI	Yeah, even in antlr 3, this would have been a trivial task.	
RV	Richard Veach	12:55
1 2 4	doesn't our grammar handle control characters in normal strings? why this not work in text block then	/ does
	thats the only reason why I asked why it was split into new file	12:56
NM	Nick Mancuso	12:56
1 1111	Because there is real control characters in the too, now	

RV	https://github.com/checkstyle/checkstyle/pull/8327/files#diff- 005f4a4ab29fcdadc426ab80fbcda6c3R107	
	you mean like how this starts with information outside the string, like $\\$	12:57
NM	Nick Mancuso what line number? the link isn't taking me to a line	12:58
RV	Richard Veach 107 in InputJava14TextBlocks.txt	12:58
	its the extremely long text block	12:58
	I haven't been involved in all discussions, so I may be missing alot, but TEXT_BLOCK_CONTENT doesn't look very friendly to follow. I question everything isn't a separate token	13:00 why
	are we trying to duplicate Javadoc text?	13:00
NM	Nick Mancuso Let me find the conversation, hang on	13:01
	https://github.com/checkstyle/checkstyle/issues/7103#issuecomment- 645028044	13:01
	I goes on through several posts	13:01
RV	Richard Veach	13:03
IXV	I am looking at the original java too, its interesting what can be put outsid string blocks	le the
	I see now why I don't think 1 grammar would be enough	13:03
NIN /	Nick Mancuso	13:04
NM	I also felt that this was something that could be built on, so having the ex lexer now makes any additions trivial.	tra
		13:04
	Photo Not included, change data exporting settings to download 780x242, 31.2 KB	d.
	Example: change to this is one line of code	
D\/	Richard Veach	13:07
ΓV	I don't see @romani involved in the tree discussion	
	this does seem very similar to javadoc printing	13:07
	new lines in the file (not control characters) are handled by a separate token	13:08

NIVI	Exactly.	
	Richard Veach	13:09
RV	no where else in our Java grammar do we have a token like that	
	its slightly weird to add it just for text blocks	13:09
	there is a complete separation between java and javadoc	13:09
	your text block will be fully in java with no separation, thats the only thing I think should be discussed	13:10
	but I am not saying to stop your current PR	13:10
	if we add a NEWLINE token to Java, it will have to be clear its only for text block	13:10
	maybe TEXT_BLOCK_NEWLINE	13:11
	unless we will add new lines for everything, but that would be a huge change	13:11
N 18 4	Nick Mancuso	13:12
NM	It's not in the PR, I've removed the NEWLINE node, to just have the single of content	e line
	I was just showing you a possibility some you mentioned that it was difficult to read	13:13
	*since	13:13
	Richard Veach	13:13
RV	yep, I was talking about if we move forward with your possibility, which I li more than the current raw view	ke
		13:14
	https://github.com/checkstyle/checkstyle/blob/463d86026a0241f07b4218f c0269baa40afe/src/test/resources-	fe029
	noncompilable/com/puppycrawl/tools/checkstyle/grammar/java14/InputJa TextBlocks.java#L38	va14
	Nick Mancuso	13:15
NM	Ah, I see. Well, the NEWLINE token only lives in the text block lexer, if the make it any better	at
	Richard Veach	13:15
RV	would this be parsed as "{Number} {Char} {Char} ??	
	it has to be added to our TokenTypes class. Everything Java lives there.	13:15
	would be no separation between different lexers	13:16

Nick Mancuso

	Or esc char	13:19
	Richard Veach	13:19
RV	i meant in your future one where you separated things out better	
	doesn't really matter was just curious. I should look at the JLS	13:21
NM	Nick Mancuso	13:27
	Oh yes, we could do that	
	Even make an HTML node for the example above	13:28
	Richard Veach	13:41
RV	I believe it is out of order because of your push	
	if you look inside <code>mTEXT_BLOCK_LITERAL_BEGIN</code> inside generated lexer you can see you are doing the push first and then creating the token for t block begin	
	content and end are inside the new grammar file. It is probably processing those first before it gets the chance to return the begin back	13:43
	but we already matched the begin, so the new grammar starts after it	13:44
	I am not able to see where it is exactly happening, but that is my best guess. This pushing is new to me since we have always used 1 gramma	13:47 r file
NM	Nick Mancuso	13:50
INIVI	You are right, but this isn't the behavior described by the documentation, is why I'm confused. I even tried not sharing the lexer state, and it still did work as intended. In fact, after digging into the antlr code, I don't know he would work as described in the documentation	l not
	Roman Ivanov	20:08
RI	https://github.com/checkstyle/checkstyle/pull/8422 assigned to Richard , to focus on patchfilter project for a bit	l need
	12 July 2020	
N IN /	Nick Mancuso	22:25
NM	@esilkensen can you restart travis for https://github.com/checkstyle/checkstyle/pull/8427#pullrequestreview- 446987298 ? It's been hung up for a few days now.	
EQ	Erik Silkensen	22:26
ES	In reply to this message	
	strange, yeah I will restart it looks like it's all green there, maybe the webhook got dropped on the way to github	

NIVI	Plan for today: resolve review items, work on switch expression gramma	ır.
N IN A	Nick Mancuso	08:41
NM	Any mentors available to restart CI for https://github.com/checkstyle/checkstyle/pull/8417 ?	
	and https://github.com/checkstyle/checkstyle/pull/8437	08:43
	For the second one, my master was too old, but I rebased and pushed, and travis didn't run again, plus some tests just hung up	08:44
ES	Erik Silkensen	08:45
ES	In reply to this message	
	Restarted, looks like it's green now	
	Nick Mancuso	08:53
NM	Thanks, looks like this one hung, too	
	:https://github.com/checkstyle/checkstyle/pull/8427	
ES	Erik Silkensen	08:54
LO	In reply to this message	
	Restarted and looks like all is green except for the pr-age check, but I ca that your branch is based off the latest, so I'm not sure what's up there - doesn't seem like that should be a blocker for your PR in the meantime. maybe someone else has an idea/can explain though	but it
N IN /	Nick Mancuso	08:55
NM	I just changed an input string, and pushed again	
	We'll see if that works	08:55
NM	Nick Mancuso	13:52
INIVI	Almost EOD: I have addressed all items in PRs, and everything is green except for those with the new CI. I have began to gather information for report on switch expressions, but I want to put a few more hours in tomo before posting a report and asking for assistance. I have spent quite a b time today reading JLS and studying other (PMD) grammar in an effort to solution. Apparently, PMD thought this was ugly, too https://github.com/pmd/pmd/blob/1ca84d56c15818d048c9fa922f82c110 1bf/pmd-java/etc/grammar/Java.jjt#L1639. The real challenge is going to minimizing the side affects that this grammar change creates; adding the switch expression to unaryExpression generates changes throughout the entire generated parser.	my prrow it of o find a 93773 o be
	Nick Mancuso	15:17

NM

I have pushed my branch to github, in case anyone has time to check it out and maybe offer some advice. Here is the offending rule, everything else works great:

Even with x2 lookahead (a'la PMD) this is still a problem. I have factored 15:19 out the casting logic, to introduce the castExpression rule, and tomorrow will continue to try and isolate the problematic grammar so that I can observe exactly what's happening.

I've traced through side by side with the master branch while parsing the 15:21 offending structure, numerous times, but the unaryExpressionNotPlusMinus

rule was very complex, which is why i am beginning to factor out other parts.

14 July 2020

Nick Mancuso 05:30

plan for today : put in some more work on switch expression, address all PRs. I also need to update the text blocks PR to make the printed AST in TokenTypes.java look correct.

09:31

09:55

14:39

15:33

19:28

Nick Mancuso

switch expression PR is up:https://github.com/checkstyle/checkstyle/pull/8449

There is still one issue with the grammar remaining; I have made this PR 09:32 draft status because of it, and will provide exact details of the issue in the second comment of the PR.

Nick Mancuso

NM

ES

NM

If any mentors have a minute, can you take a look at this post: https://github.com/checkstyle/checkstyle/pull/8422#issuecomment-655698638

I will be opening all the issues related to full records support affected 09:56 checks today, so please let me know if there is any that we can rule out before I make an issue for it.

Nick Mancuso

I have made a detailed post about the issues I'm running into with the switch expression grammar; I am running out of ideas at this point, please take a look and let's try to figure this out:

https://github.com/checkstyle/checkstyle/pull/8449#issuecomment-658278145

Erik Silkensen

In reply to this message

Thanks Nick, I will check out your post tonight!

Nick Mancuso

Sounds great. I have begun opening issues for records checks, should have it completed tomorrow.

15 July 2020

break this down into a couple of incremental steps. The JEP (looks like the latest is https://openjdk.java.net/jeps/361) summarizes:

"Extend switch so it can be used as either a statement or an expression, and so that both forms can use either traditional case ... : labels (with fall through) or new case ... -> labels (with no fall through), with a further new statement for yielding a value from a switch expression."

That makes me think of a possible sequence of PR's, like

- Extend switch so it can be used as either a statement or an expression
- Add support for the new case ... -> labels
- Add support for the new yield statement

where each could be implemented and tested on its own.

It sounds like the new case labels will be the hardest part - and I know this by itself isn't helping you get around the current issue - but let me know what you think: Does "switch expressions with traditional case labels" sound like a worthwhile first step to you? Is it too trivial to bother breaking off?

If you'd rather tackle it all at once, could you walk me through where you're at starting from a little higher level? e.g. your overall strategy, what examples your grammar is parsing currently, is it only hung up on casts/lambdas, etc.

I can tell you have already made some great progress - and I know by now you know a lot more ANTLR than me - but I will do my best to try and at least be a sounding board for you and understand what paths you've already been down, and hopefully help generate some new ideas

Nick Mancuso

NM

04:29

>f you'd rather tackle it all at once, could you walk me through where you're at starting from a little higher level?

Ok, where I am at right now is that the grammar can successfully parse all switch expression code that I can find, including lambdas in the expression, deeply nested switch expressions, etc. no problem. This change has effects throughout the generated file (as expected, expressions are everywhere), and one effect was to change the token sets that antlr generates, such that when parsing:

```
public class TestClass {
void indexed() {
IntConsumer consumer = (IntConsumer) i -> {
};
}
```

The grammar now stumbles on the IDENT that is being typecasted, which we were able to parse before. The problem is that now that the tokenset has

Basically, we can still parse anything else, like the other two code 04:36 snippets in the second post of the PR. We have lost the ability to parse the above expression only. So, by adding the optional "id" to the lambdaParameters, we can parse this code, but not the original way that is was parsed.

All attemps to "close off" the postfixExpression rule when parsing the 04:37 typecast with lambdas have broken Checkstyle (400+ errors), or just not worked.

All attempts to use a ridiculous amount of lookahead have still failed. 04:39

Actually, I am going through the CI for switch PR, and see that this fails to04:47 parse now, too:

https://github.com/google/guava/blob/32f2d770f7117015385083ec6e755336dd f18f21/android/guava/src/com/google/common/io/BaseEncoding.java#L455

So, this is a bigger problem than I thought. I am going to take a break from this for a day and work on getting issues up for records related checks and tie up some loose ends.

@esilkensen I think your idea of breaking this into three parts is what we 04:49 should do, but let's change the order a bit. statement or expression -> yield -> new labels ?

I think each part needs to be thoroughly tested, so this makes sense to 04:52 break it up. The addition of switch expressions has effects throughout the entire generated parser, we should not take this lightly.

Do I just reference the same "Issue #6615:..." for each? What about input04:59 files? The PR for the input file has every sort of usage I could find, should I just amend the existing PR to be input for statement or expression, then make two more input file PRs?

Nick Mancuso

14:50

16:02

17:27

Almost EOD: I plan to continue going through all the check issues related to full records support, and complete creating all issues by tomorrow at some point. Mentors, I have rebased text blocks to remove conflicts, and fixed the printed AST in the TokenTypes.java javadoc, so it is ready for review. If we could get full record support merged this week, I can get all the check updates taken care of the week after next (next week really is my vacation). Please let me know the best way to proceed with breaking the switch expression PRs up, and I should be able to have the first two up before I go on vacation.

Nick Mancuso

NM

ES

NM

About 30 issues opened, and about 40 to go: https://github.com/checkstyle/checkstyle/issues/8452

Erik Silkensen

Awesome, that all sounds good - I am just reading your posts now and will read deeper later tonight

For breaking up the switch changes, Roman/Richard/Pavel know best but I'd

	just what you have implemented for so far, targeting that final one at the e that you created that exercises everything.	
	In reply to this message	17:28
	Or I meant to say: I think it makes sense to include the input file along with grammar change PR for switch	h the
NIN /	Nick Mancuso	17:29
NM	Yes, I was thinking the same, that makes the most sense in this case. I'll g this tomorrow.	get on
	Hopefully, I'll be done posting issues by noon tomorrow, then I'll get on those PRs.	17:30
	Erik Silkensen	17:30
ES	Sounds good. I will review any PR's I haven't yet tonight and see if I can h push on the records PR, and check out the issues you've been creating	nelp
N IN A	Nick Mancuso	17:31
NM	The issues for records checks are much more involved then the instanced checks were, since we now have a new class like structure, and declaration thereof, so it is taking considerably longer for each one.	
	The good news is, that since I reused OBJ_BLOCK, maybe about half of them still work well.	17:32
	Erik Silkensen	17:32
ES	Makes sense, yeah that sounds good	
	16 July 2020	
NM	Nick Mancuso	06:19
INIVI	I'm continuing to open issues today for records, and should be able to complete that today, and open at least one PR for the first installment of s expression.	witch
	Nick Mancuso	12:58
NM	Ok, all 68 issues have been submitted: https://github.com/checkstyle/checkstyle/issues/8452	
	Maybe about 40% of these we may be able to close, but I really wanted to make sure that we were thorough since this is a major change.	13:01
	Some interesting checks came up from my grep of the checks directory, and some that I didn't really think would apply, ended up being impacted. not know that you could have a main in a record!	13:02 I did
		44.40

	Nick Mancuso	18:16
NM	EOD: getting ready to post in the email thread, I will post a link here after Mentors, please take a look at the records related issues that I posted, so we can approve the ones that need to be fixed/ supported, and close the issues that don't apply. Also, it would be great to get full records merged make life a bit easier for check updates. Text blocks is also ready for revie	o that to
ES	Erik Silkensen	20:19
E9	Thanks Nick — that all sounds good to me. Sorry I haven't got to anything I'm on call at work this week and things kind of caught on fire.	g yet,
	Did you have any luck with the switch grammar?	
	I will just reiterate my intention to do what I said I'd do last night, and will certainly have time tomorrow evening and this weekend.	
	Thanks for all your work on this project and I hope you are able to enjoy a vacation next week through these difficult times we are in!	a
NM	Nick Mancuso	20:20
INIVI	I think I got it :)	
	Erik Silkensen	20:20
ES	Awesome	
NM	Nick Mancuso	20:22
INIVI	I completely rewrote the switch rules to be more granular and rely less on existing rules, then reversed the order of two of the cast expression rules. I figured out what was likely causing the problem: postfixExpression should have been in UnaryExpressionNotPlusMinus (as the first rule)	
	instead, our grammar has it in the cast expressin rule	20:22
	but moving it out broke checkstyle with over 400+ errors	20:23
	I found all parsing pain points from CI and the other ones that I tested on and added all to the UT	, 20:23
	I have one more trick up my sleeve if we run into anymore issues, but I feel pretty good about what I did today.	20:24
	https://groups.google.com/g/checkstyle- devel/c/Uc7n5LsVMMw/m/Bn1c6Lz6CAAJ	20:33
N IN A	Nick Mancuso	21:50
NM	Switch is green: https://github.com/checkstyle/checkstyle/pull/8449	
ES	Erik Silkensen	21:54
LU	That's awesome, great work @Nmancuso !!	

ES

ok to do, or would it make a problem with CI?

Basically, I excluded the input from being parsed, since we couldn't parse 22:07 it yet, then after I added support, I need to delete it. But I don't know if that would mess up CI. Does CI check all commits, or just the last one?

Erik Silkensen

22:27

I think you are good to go - yeah I believe it only runs for the top commit, or for example if multiple commits are pushed or merged in one event, then CI only for the top.

Anyway, but if there's something that needs to be shuffled after all to make CI happy - no problem, it can be done, the hard part is the actual grammar change 🙂

Those are the most satisfying times in programming I think, fighting something for days on end and finally coming through, keeps you coming back for more.

17 July 2020

N IN /	Nick Mancuso	04:27
NM	Indeed! Plan for today: get reports posted to switch expression PR, make CI is green for all PRs, work on check updates for instanceof related ch	
NM	Nick Mancuso	07:02
INIVI	Can a mentor restart travis for	
	https://github.com/checkstyle/checkstyle/pull/8327	
	Erik Silkensen	07:44
ES	In reply to this message	
	Restarted	
N 18 4	Nick Mancuso	07:47
NM	Thanks! Do you know what's up with the CI in this PR? I haven't seen the before, and it isn't really giving me any details about what to do to make green: https://github.com/checkstyle/checkstyle/pull/8427	
	Erik Silkensen	07:51
ES	In reply to this message	
	Ah, yeah in my experience code coverage CI checks failing like that car kind of common unfortunately IMO nothing that you need to do about imagine the coverage check can be configured to make this green and meantime it shouldn't block something like that from merging.	it, I
	Nick Mancuso	09:21
NM		

Ok, thanks. JOSM failed again, can someone restart Travis https://github.com/checkstyle/checkstyle/pull/8529

NM

NM

by tomorrow afternoon. I have addressed all issues that are approved. I have addressed all PRs, and everything should be green. All grammar changes are submitted and green.

Nick Mancuso

Can a mentor restart CI for https://github.com/checkstyle/checkstyle/pull/8449 a bunch of jobs failed, I don't think it is anything that I did.

18 July 2020

Nick Mancuso

Regression reports are posted to switch expression PR: https://github.com/checkstyle/checkstyle/pull/8449#issuecomment-658278229

19 July 2020

Nick Mancuso NM

Hey guys, I was just thinking about the switch expression grammar, and realized I made a minor oversight in my logic to check for yield statements; I only checked if we were in a switch rule, and overlooked that we can also have yield statements in a switchlabeled block statement. I will update the PR after my vacation, but for now I will move it to draft status. Only a few lines need to be changed, so feel free to still look it over, since the important parts shouldn't be changing. I will re-run all reports afterwards.

Erik Silkensen

In reply to this message

Sounds good &

24 July 2020

NM

NM

NM

ES

Nick Mancuso

Hello all, I just wanted to let everyone know that I will be home from vacation tomorrow, and I'm willing to provide any updates we need or rebasing to get the full records support PR merged before Monday so that I can jump right into check updates Monday morning.

26 July 2020

Nick Mancuso

Ok, switch expression/ yield statement grammar PR is updated with all new reports, and it is ready to review: https://github.com/checkstyle/checkstyle/pull/8449

Nick Mancuso

@romanivanovjr Richard any chance we can get https://github.com/checkstyle/checkstyle/pull/8422 merged today? 09:45

05:19

05:48

12:16

17:13

05:48

Roman Ivanov	08:50
Richard, please review first (I try assist in other projects). Let me know have no time.	if you
Just an idea: as TokenTypes is our most critical API, why we have no @since in it	08:53
Nick Mancuso	09:16
@romanivanovjr https://github.com/checkstyle/checkstyle/pull/8422#discussion_r46054	5472
Richard Veach	16:04
@romanivanovjr I was the only one who started since which was for cl and modules. It was only possible due to automation, which won't be the for token types since it's an internal class.	
Roman Ivanov	16:41
It is ok, we will catch up on the go	
Nick Mancuso	17:24
@romanivanovjr Richard so, leave it as is, then?	
Roman Ivanov	17:40
Keep since , you will show good example to others	
Nick Mancuso	17:52
Ok, should I submit minor PRs to update the other tokens that have be merged already? I will update other grammar PRs tomorrow.	en
Actually, I think it's only one token to update: PATTERN_VARIABLE_D	EF 17:54
Roman Ivanov	18:21
Please update only one token, that you added	
27 July 2020	
Nick Mancuso	03:33
Plan for today: begin working on records check updates, create minor add <pre>since</pre> to PATTERN_VARIABLE_DEF token, and also add it to ex grammar PRs.	
@esilkensen @pbludov we need review on https://github.com/checkstyle/checkstyle/pull/8327 and https://github.com/checkstyle/checkstyle/pull/8449	03:34
@romanivanovjr Richard we still need to get full records support PR merged: https://github.com/checkstyle/checkstyle/pull/8422	03:35

merged

Roman Ivanov	10:52
contribution PR is merged	
Nick Mancuso	11:13
Mentors, please restart Travis for: https://github.com/checkstyle/checkstyle/pull/8563, https://github.com/checkstyle/checkstyle/pull/8449, https://github.com/checkstyle/checkstyle/pull/8327	
Also, is there any way to work around this: https://travis- ci.org/github/checkstyle/checkstyle/jobs/712214446 ?	11:13
Roman Ivanov	11:16
3 PR builds were restarted	
> workaround	11:18
just put in Pr description Issue #8267 on moment of PR cre validation is not that smart to detect that you have commit from	
updated you PR description	
Richard Veach	12:25
record PR merged	
Nick Mancuso	18:45
EOD posted in email thread: https://groups.google.com/g/che devel/c/Uc7n5LsVMMw/m/YjoR1d0IBgAJ	ckstyle-
Nick Mancuso	19:11
@esilkensen @pbludov I have three check update PRs poste https://github.com/checkstyle/checkstyle/pull/8568 , https://github.com/checkstyle/checkstyle/pull/8566 , https://github.com/checkstyle/checkstyle/pull/8564	d:
Roman Ivanov	21:45
@Nmancuso, please keep PRs with grammar update like https://github.com/checkstyle/checkstyle/pull/8327 with more pupdates in Checks	priority than
Please resolve conflict	21:47
Roman Ivanov In Checks problems please fix exceptions first, false positives	22:27 next false
negative (missed violations) the last	

NIVI	Plan for today: resolve all conflicts caused by records PR merge, then c with records check updates.	ontinue
	Can someone please restart Travis https://github.com/checkstyle/checkstyle/pull/8568	04:31
RI	Roman Ivanov	06:42
	Restarted	
	Roman Ivanov	08:12
RI	https://github.com/checkstyle/checkstyle/pull/8327#pullrequestreview- 456726516 - comments for text block PR	
NM	Nick Mancuso	08:22
INIVI	There was no official discussion regarding a second grammar file; but I know how else we would have the lexer emit the three separate tokens correct line and col numbers, keep track of newlines, escapes, etc. and cause ambiguities with the current lexer. Once the current lexer emits th TEXT_BLOCK_BEGIN token, it starts parsing the content of the text bloc it were regular java code without being able to switch to another lexer. I make imaginary tokens, but getting the correct positions was very difficut unreliable. Richard and I did have a brief conversation on Telegram regart the second grammar file.	with not le ck as if tried to ılt and
	@romanivanovjr I can't link to the conversation about text blocks within Telegram, but you can find the first comment that I posted by searching "Mentors, if you have any tine this weekend, please provide some feedby the text blocks PR:" and go from there	08:30 back on
	Nick Mancuso	10:54
NM	In reply to this message	
	@romanivanovjr where does creation of new checks fall in this list?	
N IN /	Nick Mancuso	18:14
NM	Can a mentor restart Travis please? https://github.com/checkstyle/checkstyle/pull/8574	
	Roman Ivanov	20:49
RI	Restarted, green.	
	>where does creation of new checks fall in this list?	20:52
	My statement was unrelated to any existing issue. It was general. You c https://github.com/checkstyle/checkstyle/issues/8558 for more details, o will close it as invalid issue	

RI

Autouri trianalo triat.

As explanation on why second grammar is created, ... please put a bit more details as comment in GitHub issue **Nick Mancuso** 21:23 NM I will take care to provide more details as my first task tomorrow, then I will take a look at RequireThis. No exceptions at all were reported for full records support grammar. Can I ask the user in the issue to try the latest snapshot? 22:30 Roman Ivanov RI It will unlikely happen, as he even ca not provide input file Initial support was intended to be not reliable, so no worries that there 22:32 was some exception 29 July 2020 **Nick Mancuso** 04:55 NM Plan for today: first, I am going to update the text blocks PR with more details regarding second grammar, then update all PRs, then continue working on records check updates. **Roman Ivanov** 07:08 RI @pbludov, as you finish with review, please reassign PR to next reviewer, example https://github.com/checkstyle/checkstyle/pull/8574 . PR should be always assigned or merged **Nick Mancuso** 08:32 NM Mentors, we need to determine whether we are making a new check for the number of record components, or adding support to ParameterNumberCheck: https://github.com/checkstyle/checkstyle/issues/8521 This also needs approval and to be added to the project. We need to add these PRs to project, too: https://github.com/search? 08:42 q=is%3Aopen+is%3Apr+author%3Anmancus1+archived%3Afalse **Nick Mancuso** 13:01 NM Can a mentor restart Travis for https://github.com/checkstyle/checkstyle/pull/8574 and https://github.com/checkstyle/checkstyle/pull/8570 ? Also, please approve and add to project: https://github.com/checkstyle/checkstyle/issues/8577 **Nick Mancuso** 13:59 NM Restart Travis one more time please: https://github.com/checkstyle/checkstyle/pull/8570

NM	Nick Mancuso 18	3:00
	EOD report: I have submitted 4 more PRs for records check updates today, and will continue to chip away at those tomorrow. All PR's are updated and items addressed. Please see above comments. @esilkensen I ping'd you for review in a few PR's since no one was assigned, I hope that's ok. Two of the need to have Travis restarted, they should be green after that.	
	30 July 2020	
N 18 4	Nick Mancuso 06	6:34
NM	Plan for today: address all items in PRs, keep working on check updates	
	Nick Mancuso 08	3:10
NM	Can a mentor restart appveyor please: https://ci.appveyor.com/project/Checkstyle/checkstyle/builds/34382087/job/b 16fl39fhcgbrq	006
	Richard Veach 11	1:03
RV	I restarted it.	
	Let me know if we need to discuss the escaping issue in the text block 11 PR.	1:04
N 18 4	Nick Mancuso 11	1:33
NM		
		1:38
	changes that need to be made to get this merged; but right now I don't fully understand what our goal is here.	
	Richard Veach 13	3:52
RV	If my 2nd explanation which provided some examples isn't enough. Then I create one from your input.	
	@romanivanovjr feel free to chime in if you understand that I'm talking 13 about.	3:52
NIN A	Nick Mancuso 13	3:56
NM	Thanks for your patience, I think I am having a hard time with this statement Imagine if someone put in String s = """\\n""";. As you have your AST	:: "

example would be this:

String s = """
\\n""";

RV	Richard Veach	14:56
Γ	let me install your version of checkstyle and create an example	
NM	Nick Mancuso	14:57
	Thanks for bearing with me here	
RV	Richard Veach	15:07
	http://rveach.no-ip.org/checkstyle/checkstyle.php? action=view&config=72fba57f86eaf7df54f418b381c28422&code=e776856 3181c138bd97912392df37&checkstyle=checkstyle-nmancus1-pr- selectortextblocksgrammar-2020-07-30- all.jar&printTree=true&printSuppressions=	8e5c
	line 3, it prints 3 $\n\n$	15:08
	one should be the text $\\$. You can't tell the difference between the 3 in the AST print out	15:08
NM	Nick Mancuso	15:09
	I think I know what you mean, except that two should print like that, since are true escapes, right?	they
	There are two real line terminators and one \n	15:10
RV	Richard Veach	15:10
Γ	yes, 2 are real escapes and should be printed s they are now	
	my concern was the text (non-escape)	15:10
	if I wanted to build my own parser for my own usage, how do I tell text from non-text	15:11
	my owner parser meaning using the printout from the AST tree	15:11
NM	Nick Mancuso	15:13
INIVI	This is a good point. So you are proposing that we preface every escape character with an imaginary $\ \setminus\ ?$	
RV	Richard Veach	15:13
ΓV	I wouldn't call it an imaginary $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	it
	if you did String s = " n "; you wouldn't print out n if your printed it	15:14
	but yea, preface every $\$ with another $\$	15:15

NM	This isn't consistent with our treatment of string literals, why deviate?	
RV	Richard Veach	15:16
1.4.4	String literals don't contain true line controls like text blocks can, right?	
	that would be my argument why its different, but @romanivanovjr can chime in on his thoughts.	15:16
	Nick Mancuso	15:19
NM	Ok, so the idea here is that we want to make it easy to parse the TEXT_BLOCK_CONTENT nodes right?	
	I just want to make sure that we are on the same page, since there are a few different ways to approach this. 1. Make the text block ast easy for humans to read 2. Make it consistent with the current string literal 3. Make it easy to parse	15:29
	Nick Mancuso	15:50
NM	You are correct about regular string literals not containing true line contro characters, sorry I missed that question.	I
	Nick Mancuso	19:04
NM	EOD report in email thread: https://groups.google.com/g/checkstyle- devel/c/Uc7n5LsVMMw/m/A16uQX6xAQAJ	
	31 July 2020	
N 18 4	Nick Mancuso	04:01
NM	Plan for today: keep working on records check updates, and address all in PR's	tems
	Roman Ivanov	07:11
RI	@Nmancuso, please do sooner	
	https://github.com/checkstyle/checkstyle/pull/8327/files#r463634923	
	Nick Mancuso	07:12
NM	@romanivanovjr I'm on it	
	Roman Ivanov	07:21
RI	https://github.com/checkstyle/checkstyle/pull/8327#discussion_r4636397 one more comment, please clarify	58 -
N 18 4	Nick Mancuso	11:05
NM	https://github.com/checkstyle/checkstyle/pull/8327#discussion_r4637331	13

	can identify checks and get issues posted. What is a good way to iden checks affected by merging text blocks? There are obvious ones, like MultipleStringLiteralsCheck and IllegalTokenText, but what else? Than the kind words and good feedback in my review!	-
RI	Roman Ivanov	17:40
Γ	https://checkstyle.org/config_misc.html#AvoidEscapedUnicodeCharac	ters
	Search for TokenTypes.STRING_LITERAL in Checks	17:42
	https://checkstyle.org/config_coding.html#EqualsAvoidNull	17:43
	https://checkstyle.org/config_coding.html#StringLiteralEquality	17:47
NIN/	Nick Mancuso	18:45
NM	Can anyone check the wercker log for me? https://app.wercker.com/checkstyle/checkstyle/runs/build/5f24b1badac 8b8bcdb	563000
EQ	Erik Silkensen	19:06
LO	In reply to this message	
	Exception in thread "main" java.lang.Error: Error was th	irown
	while processing /pipeline/source/.ci-	
	temp/contribution/checkstyle-tester/src/main/java/local-	
	checkstyle/target/test-	
	classes/com/puppycrawl/tools/checkstyle/detailastimpl/Inp	putDeta
	ilAstImplJustToMakeStackoverflowError.java	
	at	
	<pre>com.puppycrawl.tools.checkstyle.Checker.processFiles(Checker.319)</pre>	cker.ja
	at	
	<pre>com.puppycrawl.tools.checkstyle.Checker.process(Checker.) 1)</pre>	java:22
	at	
	org.apache.maven.plugins.checkstyle.exec.DefaultCheckstyleExecu	
	<pre>tor.executeCheckstyle(DefaultCheckstyleExecutor.java:202)</pre>	
	at	
	org.apache.maven.plugins.checkstyle.AbstractCheckstyleRep	port.ex
	ecuteReport(AbstractCheckstyleReport.java:533) at	
	org.apache.maven.plugins.checkstyle.CheckstyleReport.exe	nuteRen
	ort (CheckstyleReport.java:57)	cuccitop
	at	
	org.apache.maven.reporting.AbstractMavenReport.generate(Abstrac
	tMavenReport.java:255)	
	at	
	org.apache.maven.plugins.site.ReportDocumentRenderer.rend	derDocu
	<pre>ment(ReportDocumentRenderer.java:219)</pre>	

at

```
org.apache.maven.doxia.siterenderer.DefaultSiteRenderer.render(
DefaultSiteRenderer.java:135)
at
org.apache.maven.plugins.site.SiteMojo.renderLocale(SiteMojo.ja
va:175)
at.
org.apache.maven.plugins.site.SiteMojo.execute(SiteMojo.java:13
8)
at.
org.apache.maven.plugin.DefaultBuildPluginManager.executeMojo(D
efaultBuildPluginManager.java:137)
at
org.apache.maven.lifecycle.internal.MojoExecutor.execute(MojoEx
ecutor.java:210)
at
org.apache.maven.lifecycle.internal.MojoExecutor.execute(MojoEx
ecutor.java:156)
at.
org.apache.maven.lifecycle.internal.MojoExecutor.execute(MojoEx
ecutor.java:148)
at.
org.apache.maven.lifecycle.internal.LifecycleModuleBuilder.buil
dProject(LifecycleModuleBuilder.java:117)
at.
org.apache.maven.lifecycle.internal.LifecycleModuleBuilder.buil
dProject(LifecycleModuleBuilder.java:81)
at
org.apache.maven.lifecycle.internal.builder.singlethreaded.Sing
leThreadedBuilder.build(SingleThreadedBuilder.java:56)
at
org.apache.maven.lifecycle.internal.LifecycleStarter.execute(Li
fecycleStarter.java:128)
at.
org.apache.maven.DefaultMaven.doExecute(DefaultMaven.java:305)
at
org.apache.maven.DefaultMaven.doExecute(DefaultMaven.java:192)
at org.apache.maven.DefaultMaven.execute(DefaultMaven.java:105)
at org.apache.maven.cli.MavenCli.execute(MavenCli.java:957)
at org.apache.maven.cli.MavenCli.doMain(MavenCli.java:289)
at org.apache.maven.cli.MavenCli.main(MavenCli.java:193)
at.
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0
(Native Method)
at.
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(
NativeMethodAccessorImpl.java:62)
at
```

at

	at	
	org.codehaus.plexus.classworlds.launcher.Launcher.launchEn	nance
	d(Launcher.java:282)	
	at	
	org.codehaus.plexus.classworlds.launcher.Launcher.launch(La	aunch
	er.java:225)	
	at	
	org.codehaus.plexus.classworlds.launcher.Launcher.mainWithH	ExitC
	ode(Launcher.java:406)	
	at	
	org.codehaus.plexus.classworlds.launcher.Launcher.main(Lau	ncher
	.java:347)	
	Caused by: java.lang.StackOverflowError	
	at	
	com.puppycrawl.tools.checkstyle.checks.whitespace.ParenPad	Check
	.processExpression(ParenPadCheck.java:348)	
	·proceedingroot of (raroll addition) at a to ro,	
	Sorry, on phone, but in case that's helpful ParenPadCheck SO error?	19:06
NM	Nick Mancuso	19:14
INIVI	Yeah, that randomly shows up for me during check regression testing. Ca	an you
	restart it for me?	
	Erik Silkensen	19:18
ES	In reply to this message	
	Restarted, I will keep an eye and can kick it again if necessary	
	(Also, I wonder if Roman could grant you privileges to restart CI?)	19:19
	Roman Ivanov	19:21
RI	I grant permission only if I became confident in no misusage. Simply char	nge of
	commit and push can restart CI (but will restart all CIs)	
	Nick Mancuso	19:23
NM	>Simply change of commit and push can restart CI	
	Is that ok? I didn't want to waste resources.	
	Erik Silkensen	19:28
ES	I understand, for sure - and I appreciate you trusting me, and I don't mea	n to
	be looking to offload responsibilities as a mentor.	11 10
	Nick, as far as I know it's more a question of your time - more efficient for	VOU
	There as the as the term of a question of your time - more enicient to	you

to be able to restart a single CI run rather than the whole deal, obviously, but I don't think (I don't know if this is true) it's costing the Checkstyle org \$\$ to kick off extra CI for example

That said, maybe another thought is - for flaky, intermittent CI, if it's not 19:31 blocking you in some way (i.e. you'd be waiting for a review anyway) I think

	Nick Mancuso	19:42
M	Yes. Probably 1 out of 10 check regression cycles fails on ParenPad w file. Did you notice the name of the file? :)	vith that
	Erik Silkensen	19:44
ES	Yes, was confused by the red X since it seems the file is producing the effect haha	desired
RI	Roman Ivanov	19:52
	> I didn't want to waste resources.	
	I do not pay for CI :), if you see no high activity in PRs, you can do this	
	1 August 2020	
	Nick Mancuso	09:57
ЛМ	Can anyone provide me with the wercker failure please? https://app.wercker.com/checkstyle/checkstyle/runs/build/5f25997cdac b8d23c	5630008
20	Erik Silkensen	10:13
ES	In reply to this message	
	A problem occurred evaluating root project 'spring-	
	<pre>integration'. > Could not resolve all files for configuration ':spring-</pre>	_
	integration-stomp:compileClasspath'.	
	> Could not find io.projectreactor.netty:reactor-netty:.	
	Required by:	
	project :spring-integration-stomp	
	Nick Mancuso	10:14
	Thanks, I'm not familiar with that, is that something that I did?	
	Erik Silkensen	10:16
	I don't think so, looks like all builds are failing	
	Roman Ivanov	17:31
	@esilkensen and @pbludov , please read https://github.com/checkstyle/checkstyle/wiki/Post-merge-actions , skip this cause master build to fail	oping of
	Erik Silkensen	17:44
	In reply to this message	
	Thanks @romanivanovjr - sorry about that - yes, I was not doing the fir	rst two

steps. I will track down the PR's I merged tonight

New token: is either bug (if added to required set) or new feature	es 18:15
It matter a lot for plugins	18:15
Nick Mancuso	18:27
What else do we need to get text blocks merged? I plan to put in tomorrow, and can take care of it then.	a few hours
Roman Ivanov	19:12
Richard , please try to find time to do final review of text block	
2 August 2020	
Nick Mancuso	11:23
@romanivanovjr Richard can we discuss the addition of a new to https://github.com/checkstyle/checkstyle/pull/8449#discussion_r	
3 August 2020	
Nick Mancuso	05:23
Plan for today: address all items in PRs, submit a PR for new ch ParameterNumberCheck, and then keep working on records che	
I will also post issues related to text blocks, and post in email thr (New one for August.)	read. 05:23
Nick Mancuso	07:50
I think I have discovered a potential issue with the full records gr	ammar:
<pre>// record declaration, note that you cannot have mo</pre>	difiers in
this case recordDefinition[#null]	
This is creating a problem when checking for the access modifie grammar for a class definition, the mods AST is not built, so an e passed to the classDefinition rule. Then, in ScopeUtil, the empty is marked as package visibility. With the current records impleme Scopeutil is throwing a NPE, because instead of the modifiers A "empty" it is null.	empty AST is modifiers AST entation,
You can see the NPE here: https://checkstyle-diff-reports.s3.us-o 2.amazonaws.com/full-records-	east- 07:55

RecordComponentNumberCheck_2020133606/reports/diff/checkstyle/index.ht ml

I propose that we create an empty modifiers AST in traditionalStatement 08:06 to pass to the recordDefinition rule.

Should I open an issue in github for further discussion? 08:12

Nick Mancuso	08:32
After trying a few things, creating an artificial modifiers AST seems and problematic. I will just update ScopeUtil unless there are any of	-
Roman Ivanov	08:40
Please create issue and put all details to it	
Nick Mancuso	08:40
Ok, I'm on it.	
Nick Mancuso	08:58
https://github.com/checkstyle/checkstyle/issues/8598	
Roman Ivanov	11:43
se comment	
Nick Mancuso	11:45
Ok, I'll just use OuterTypeFilename, since that is affected as well. I if it was ok to submit a bug report for my new check since it is not m	
Nick Mancuso	12:24
I've tried the grammar modification on all affected issues, and it wor was not constructing the empty AST properly when I posted the abor comment "After trying a few things, creating an artificial modifiers A have posted the proposed grammar change to the issue.	ove
Roman Ivanov	12:25
please make sure you have example of how it affecting AST structu	ire
Nick Mancuso	12:26
Ok. I will post now.	
It just adds an empty "MODIFIERS" node to record definitions in me only. Otherwise, all record definitions already had that node, empty	
Nick Mancuso	12:45
Ok, issue is updated. I have a grammar patch ready to submit if we go that route.	decide to
Nick Mancuso	16:44
EOD: all reports are running for the records grammar patch, should later tonight. I will post ASAP. All PR's are updated, and I have a lot just waiting for the patch to get merged. I think that I will be able to I check updates Pr's for records support posted by Thursday.	that are

Nick Mancuso

	Email posted: https://groups.google.com/g/checkstyle- devel/c/hp05kSVxGJ4	17:30
	Erik Silkensen	20:17
ES	In reply to this message	
	No objections here, that all sounds right to me	
	4 August 2020	
	Nick Mancuso	05:36
NM	Plan for today: post issues for all checks related to text blocks. If there that cause NPE, I will start on them today, and push off records check	-
N IN A	Nick Mancuso	06:17
NM	Hey, I just wanted to let you guys know that there are tornadoes in my and the power has been intermittent. If you don't hear from me/ see ac today, I have probably lost power/ taken shelter.	
N 18 4	Nick Mancuso	07:50
NM	Guys, my house has sustained a fair amount of damage and my proper devastated. I will be MIA for a few days. We won't have electricity for or while most likely	-
	Roman Ivanov	07:51
RI	What happened ?	
	Nick Mancuso	07:51
NM	Tornado	
	I have four trees on my house, and lost about 20 on my property. Roo damaged, shingles and siding in some places are gone.	f is 07:52
	Roman Ivanov	07:57
RI	https://www.wdel.com/news/isaias-upgraded-back-to-hurricane-heavy tornado-possible-in-delaware-tuesday/article_f3bedf8e-d5cc-11ea-ba2 4fd9e7648f38.html	
	Erik Silkensen	08:00
ES	Sorry Nick, stay safe!!	
N 10 1	Nick Mancuso	08:04
NM	Thank you, it's pretty ugly but we are safe.	
		08:08

	Direte	08:08
	Photo Not included, change data exporting settings to download 1280x960, 389.2 KB	d.
RV	Richard Veach Didn't realize you were in the us too. No damage here as I am further nor	09:07 th.
	Mostly just rain. Sorry to hear about your house.	
RI	Roman Ivanov	09:39
	@pbludov , @esilkensen , please fix https://github.com/checkstyle/checkstyle/issues/8604 , we leaked stuff , a master build is red and all new PRs also red	Ind
	5 August 2020	
NM	Nick Mancuso	03:57
INIVI	Let me know what else I can do to get https://github.com/checkstyle/checkstyle/pull/8600 merged. Once that is merged I can update all my PRs for check updates so that they are green	۱.
RI	Roman Ivanov	06:16
1 11	minor modification is required, please do.	
NM	Nick Mancuso	06:18
	Thanks, I'll take care of it tonight. I have to cut trees off the house while the is out.	he sun
RI	Roman Ivanov	08:12
I XI	@pbludov , please do not forget to put label on issues before you close is Without this action there is master build failure	ssue.
	Such minor build failure can hide bigger problem	08:12
	FYI: I fixed 3 CIs today for master. PRs should be rebased	08:14
NM	Nick Mancuso	19:37
	Hello all, the power company says that we will have service back by tonce and all trees are off my house. I will update all PRs tomorrow and hopefu submit some more. I will also submit all issues related to text blocks.	
	Everyone, thanks again for bearing with me, and the well wishes.	19:39
	I just updated https://github.com/checkstyle/checkstyle/issues/8598 and https://github.com/checkstyle/checkstyle/pull/8600	19:53

	I need to be sure about https://github.com/checkstyle/checkstyle/pull/8600#discussion_r4657137	06:29 737
NM	Nick Mancuso	06:30
	I posted in the issue last night: https://github.com/checkstyle/checkstyle/issues/8598#issuecomment- 669652266 is this ok?	
RI	Roman Ivanov	06:58
Γ	yes, now I see it, thanks a lot. Merged.	
	Nick Mancuso	08:40
NM	Ok everyone. I have power back now, and it is raining, so no tree cutting is priority? Getting pitest coverage back up?	. What
DI	Roman Ivanov	09:15
RI	If grammar update is blocked by mentors, please keep doing Checks up	dates
	Pitest in the last	09:15
NM	Nick Mancuso	09:17
	Ok. I will #1. Update existing PRs #2. Finish submitting issues for text blocks so that we can identify any ch that cause exceptions #3. Start working on checks (if any) that cause exceptions from text bloc	
	Nick Mancuso	09:45
NM	All PRs are updated and rebased. We have two that are hanging: https://github.com/checkstyle/checkstyle/pull/8575 and https://github.com/checkstyle/checkstyle/pull/8578. These two check upd are good to merge with review from @esilkensen and @pbludov only, rig @romanivanovjr ?	
RI	Roman Ivanov	12:02
171	https://github.com/checkstyle/checkstyle/pull/8575 pitest failure	
	Nick Mancuso	12:06
NM	Ok, I will take care of it tonight, the rain stopped so I am back outside do some repairs if that's ok.	ing
NIM	Nick Mancuso	19:00
NM	can anyone explain this to me:	
	https://teamcity.jetbrains.com/buildConfiguration/Checkstyle_IdeaInspec	<mark>ti</mark> 19:00

onsPullRequest/3052229?buildTab=Inspection

		19.00
	https://github.com/checkstyle/checkstyle/issues/8513?	
	Richard Veach	20:17
RV	@Nmancuso I am seeing some single quotes in the property files for the changes you added. Maybe that is the issue as single quotes need to be doubled to be printed as normal in property files.	
NM	Nick Mancuso	20:19
	Great, I will try that! Thank you very much. I don't have a lot of experience dealing with property files, and googling that specific violation didn't turn t anything worthwhile.	
$D \setminus I$	Richard Veach	20:19
ΓV	I believe its a false violation from their parser failing on the single quote.	
	https://www.mscharhag.com/java/resource-bundle-single-quote-escaping	20:20
	d'enregistrement should be written as d''enregistrement	20:21
	I tried the changes locally and the violations went away. So that is the issue.	20:23
	If your not familar with IntelliJ, that is basically what TeamCity is running. You can run the violations locally.	20:24
N IN A	Nick Mancuso	20:27
NM	It's strange because those violations weren't showing up locally. I tried to set up the Team City plugin for intellij, in hopes that it would highlight the exact issue(the TeamCity reports offer to link you to the violations in Intellij), but I could not figure out how to get it set up.	
	Richard Veach	20:28
RV	yea, imo IntelliJ is not very friendly	
	I don't remember having any problems when I followed https://checkstyle.org/idea.html	20:28
	Roman Ivanov	20:30
RI	Please make sure you use the same version on local as in teamcity	
N IN A	Nick Mancuso	20:31
NM	I hadn't considered that. I have just been using the latest build from AUR	
	I have been having trouble with pitest still, it seems that violations are changing between runs	20:31
	Richard Veach	20:32
RV	I don't use the Team City plugin, running inspection inside IntelliJ does it for me. IMO, it is too much trouble to keep IntelliJ the same as TC. I haven't had	

20:32
20:35
to fix this
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R to 20:53
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om
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uired
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ally before
04:22
ig on
06:34
o clarify

	please prioritize Get switch/ yield PR merged as most important	06:37
NM	Nick Mancuso	06:44
	All is green, and two approvals for swtich/ yield	
	Just need review from @romanivanovjr and Richard	06:44
NM	Nick Mancuso	11:17
	Can someone restart Travis please: https://travis- ci.org/github/checkstyle/checkstyle/builds/715879857	
	Erik Silkensen	11:56
ES	In reply to this message	
	Sorry, it looks like I no longer have permission to restart CI	
RI	Roman Ivanov	12:46
	Restarted. @esilkensen , you should have rights, you do have RW access to repo, Travis match permission by code access	
=0	Erik Silkensen	12:48
ES	In reply to this message	
	Photo	
	Not included, change data exporting settings to download 591x1280, 69.0 KB	1.
	It's strange, something seems to have changed recently - it looks like this to me now	12:48
	Where on my personal repos there is a restart button below the "2 hours ago" text for example	12:49
	Roman Ivanov	12:50
RI	Strange	
N 18 4	Nick Mancuso	13:04
NM	EOD report: submitted 5 Pr's for check updates related to records, 2 PRs bug/ documentation fixes, and finished posting text blocks related issues. Mentors, we need https://github.com/checkstyle/checkstyle/issues/8614 at to our project, please.	
	I plan to do some more tonight, so I can address any review items then. Is it possible to get switch/ yield merged this weekend?	13:05
	Nick Mancuso	15:46
NM	If anyone has a moment, can you restart Travis: https://travis- ci.org/github/checkstyle/checkstyle/jobs/715900331	

	102	
RV	Richard Veach restarted travis job	18:46
NM	Nick Mancuso Thank you. What about that pitest?	18:46

Next messages