

Editor's report for the Concepts TS

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Date: 2017-06-18

Document number: N4675

New papers

- N4674 is the current working draft. It replaces N4641.
- N4675 is this Editor's Report for the current working draft.

Summary of changes

The Working Draft has been updated to target the forthcoming C++17 International Standard. The following changes have been applied to the document.

1. Update section numbering to conform to ISO requirements
2. Update the C++ Standard reference, noting that it refers to a forthcoming publication.
3. Remove the specification of fold expressions since they are part of C++17.
4. Re-apply the TS wording to the text of C++17.

A log of editorial changes follows:

```
commit 092f9336f280da8a90027745d80f4ce43c4f9c2e
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Mon Jun 19 10:48:51 2017 -0400
```

Extend an addedblock to cover new text in [dcl.fct].

```
commit 0336e3ba4f2d47b9f02d9621c47eaefcee4ec567
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Mon Jun 19 10:18:09 2017 -0400
```

Fix doc number in [intro].

```
commit 17544d12ec03402ab1360fda9d82b5807e56c561
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 16 08:45:47 2017 -0700
```

Remove normative change in [dcl.spec.auto.deduct].

```
commit e04995326a31a424cd2e485e862ca9a9b26910e4
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Sat Jun 10 09:29:40 2017 -0400
```

Update the formatting and editors guidance in [temp.constr].

commit 1848c750c51f95a8e09012878bb221265593063d
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Sat Jun 10 09:27:42 2017 -0400

Finish updating [temp].

commit c9fd30c6a1a623870b12a7374ca0232f0c0e6475
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 9 20:53:14 2017 -0400

Update [temp] and [temp.param].

commit 91a2ae617ab06e8764ec348fe88666949c13ac14
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 9 17:36:17 2017 -0400

Update the wording in [over].

commit bb9fabf347602f8cd36f44b0a46185ac27647fff
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 9 17:35:54 2017 -0400

Updating the wording in [dcl.decl].

commit 103b0338123b27edf309852b537156e56318863f
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 9 14:21:02 2017 -0400

Mark new text in [dcl.spec.auto.constr] and [dcl.spec.concept].

commit 33689a0eb01325072737d4ebc238c1ffbef9335e
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 9 12:44:43 2017 -0400

Reword [dcl.spec.auto.deduct].

commit 7786acb2b906b6c5f3ccd0c731e8a9188e5d4fb7
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 9 11:31:06 2017 -0400

Rebase [dcl.spec.auto] (but not yet deduction).

Update the wording in [dcl.spec.auto] to reflect the structure and

wording in the C++ Standard.

Move paragraphs describing return type deduction and other limitations from [dcl.spec.auto.deduct] into [dcl.spec.auto] as reflected in WD.

commit 5d9a9887aeac7c3d96327308bd4153cfe990a5c4
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 9 10:22:55 2017 -0400

Editorial: color requires-expressions as added.

commit 00a5cecef4e8aab86d73f1e9f28b8b316a082699
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 9 10:21:15 2017 -0400

Update wording for [expr.prim.lambda].

commit eaff23ed6718fb67337c72c2f59becbf9a0b5217
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 9 10:13:49 2017 -0400

Update [expr] to match C++17.

Add new references to unevaluated operands in [expr].

Remove [expr.prim.general] and move the grammar for requires expressions into [expr.prim].

Move the extensions for nested name specifiers into [expr.prim.id.qual].

Move constraint checking rules into [expr.prim.id].

commit 47cc85270295735b44e6f91572d2060eceb30df8
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 9 10:01:11 2017 -0400

Refer to the C++ standard section in [intro.compliance].

commit 86c84fdfa7412d01370c338b91cff5e72bd22476
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 9 09:56:45 2017 -0400

Update C++ standard section numbers.

commit e795cd59cd45ebfc347b8ad745e321e6d43b49a2
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date: Fri Jun 9 09:29:38 2017 -0400

Removing fold expressions.

Update [intro], [expr], and [tmp.de] to remove definitions related to fold expressions.

Update the numbering of [expr.lambda] and [expr.requires] to match C++17.

```
commit 425454f002a35129e9063f2c4022c76ec4c9913f
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date:   Fri Jun 9 09:19:59 2017 -0400
```

Update the C++ document number.

```
commit 5f9e6df9b959c0c9027dc76f57b00513bb6857c0
Author: Andrew Sutton <andrew.n.sutton@gmail.com>
Date:   Fri Jun 9 09:15:22 2017 -0400
```

Update to match the document structure of C++17.