

# C++ Club UK

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2019-10-17

<http://www.open-std.org/jtc1/sc22/wg21/docs/papers/2019/#mailing2019-10>

[https://www.reddit.com/r/cpp/comments/dhm138/wg21\\_the\\_201910\\_mailing\\_is\\_now\\_available/](https://www.reddit.com/r/cpp/comments/dhm138/wg21_the_201910_mailing_is_now_available/)

- Oh boy (RX) and doubling down
- Oh boy (Graphics)

# wg21.link cheatsheet

wg21.link - WG21 redirect service.

## Usage:

```
wg21.link/nXXXX
wg21.link/pXXXX
wg21.link/pXXXXrX
  Get paper.
```

```
wg21.link/standard
  Get working draft.
```

```
wg21.link/cwgXXX
wg21.link/ewgXXX
wg21.link/lwgXXX
wg21.link/lewgXXX
wg21.link/fsXXX
wg21.link/editXXX
  Get issue.
```

```
wg21.link/index.json
wg21.link/index.ndjson
wg21.link/index.txt
wg21.link/specref.json
  Get everything.
```

```
wg21.link/
  Get usage.
```

```
wg21.link/<something else>
  Get 404.
```

## Sources:

- <http://www.open-std.org/jtc1/sc22/wg21/docs/papers/{2002..2018}/>,
- [http://www.open-std.org/jtc1/sc22/wg21/docs/cwg\\_{active,defects,closed}.html](http://www.open-std.org/jtc1/sc22/wg21/docs/cwg_{active,defects,closed}.html),
- <http://cplusplus.github.io/EWG/ewg-{active,complete,closed}.html>,
- <http://cplusplus.github.io/LWG/lwg-{active,defects,closed}.html>,
- <http://issues.isocpp.org/>,
- <https://github.com/cplusplus/draft/tree/master/papers>,
- [https://github.com/cplusplus/draft issues](https://github.com/cplusplus/draft/issues) and [pull-requests](https://github.com/cplusplus/draft/pull-requests),
- the private wiki of the C++ committee, and
- a few manual additions.

A de-facto standard C++ project layout, by Colby Pike  
<[vectorofbool@gmail.com](mailto:vectorofbool@gmail.com)>

- [Reddit post 1](#)
- [Reddit post 2](#)
- [Pitchfork GitHub repo](#)
- [Pre-paper](#)

## Address Sanitizer is coming to MSVC

[https://www.reddit.com/r/cpp/comments/d6k7mt/address\\_sanitizer\\_is\\_coming\\_to\\_msvc/](https://www.reddit.com/r/cpp/comments/d6k7mt/address_sanitizer_is_coming_to_msvc/)

<https://github.com/martinmoene/span-lite>

A C++20-like span for C++98, C++11 and later in a single-file header-only library.

- Implementation <https://github.com/kokkos/mdspan> (BSD 3-Clause)
  - Intro <https://github.com/kokkos/mdspan/wiki/A-Gentle-Introduction-to-mdspan>
  - r/cpp [https://www.reddit.com/r/cpp/comments/cl127i/mdspan\\_productionquality\\_reference\\_implementation/](https://www.reddit.com/r/cpp/comments/cl127i/mdspan_productionquality_reference_implementation/)
- Kokkos <https://github.com/kokkos/kokkos>
- Multi-dimensional strided array views in Magnum <https://blog.magnum.graphics/backstage/multidimensional-strided-array-views/>
- P0009R9 **mdspan**: A Non-Owning Multidimensional Array Reference <http://wg21.link/p0009r9>
- CppCast with Bryce Adelstein Lelbach <https://cppcast.com/bryce-lelbach-mdspan/>

## Enums, warnings, and default

<https://brevzin.github.io/c++/2019/08/01/enums-default/>

[https://www.reddit.com/r/cpp/comments/cubah9/enum\\_switch\\_warnings/](https://www.reddit.com/r/cpp/comments/cubah9/enum_switch_warnings/)

GCC & Clang:

```
1 | -Wswitch-enum
```



## Reddit

- PyTorch <https://pytorch.org/features> -- has a pure C++ front end <https://pytorch.org/cppdocs/>
- TensorFlow for C++  
[https://www.tensorflow.org/api\\_docs/cc](https://www.tensorflow.org/api_docs/cc)
- Shogun <https://www.shogun.ml/>

# The sad history of Unicode printf-style format specifiers in Visual C++

<https://devblogs.microsoft.com/oldnewthing/20190830-00/?p=102823>

- [Reddit](#)

# Introducing Magnum Python Bindings

<https://blog.magnum.graphics/announcements/introducing-python-bindings/>

<https://github.com/pybind/pybind11>

## Are there any memory safety libraries for C++?

[https://www.reddit.com/r/cpp/comments/d0hguz/are\\_there\\_any\\_memory\\_safety\\_libraries\\_for\\_c/](https://www.reddit.com/r/cpp/comments/d0hguz/are_there_any_memory_safety_libraries_for_c/)

<https://github.com/duneroadrunner/SaferCPlusPlus/>

<https://github.com/deplinenoise/ig-memtrace>

*MemTrace is a memory debugging tool developed internally at Insomniac Games.*

<https://github.com/ivmai/bdwgc>

*The Boehm-Demers-Weiser conservative C/C++ Garbage Collector (libgc, bdwgc, Boehm-gc) <https://www.hboehm.info/gc/>*

## AnyDuck : A Value Type Erased Type

Steve Downey: <https://www.sdowney.org/2019/07/anyduck-a-value-type-erased-type/>

## Template meta-programming: Some testing and debugging tricks

<https://cukic.co/2019/02/19/tmp-testing-and-debugging-templates/>

<https://www.nextptr.com/tutorial/ta1193988140/how-cplusplus-using-or-aliasdeclaration-is-better-than-typedef>

<https://github.com/berkeley-container-library/bcl>