

## Notes part 6

### C++20 Recipes. Ch. 2. Initialization & Auto

- Uniform initialization (pp. 27-32)
- Avoid auto when possible (pp. 32-40)
- Using T-type as parameter (pp.38-40):

```
template <typename T>
concept CustomType = std::is_class_v<T>;
template <CustomType T>
void processCustomType(const T& value) { ... }
```

### Professional C++. Ch. 2. Working with Strings and String Views

- use "John"s instead of "John" for string literals, where it is ambiguous (pp. 95-96)
- Follow up later: string\_view (p. 100-102)
- Formatting (p. 103-109)

### Modern C++. Ch. 2. Working with Numbers and strings

- std::to\_string list (pp. 69-700)
- std::stoi etc. (pp. 70-73)
- numeric\_limits<T> list (p. 76)
- pseudo-random number generation (pp. 79-86)
- user-defined literals (pp. 88-100)
- raw string literals (pp. 101-103)
- string helpers (pp. 103-109)
- regex (pp. 110-127)
- std::string\_view (pp. 127-131)
- std::format (pp. 131-142)

### Professional C++. Ch. 3. Coding with Style

- Nice for reference

### Exploring C++20. Ch. 28. Documentation

- *Doxygen* can generate *CHM* and *PDF* documentation directly from inline comments starting with:

```
– /// or //!
– /** or /*!
```

- *Doxywizard* create configuration file for documentation generation
- *Doxygen+Dox2word* to create Word documents for editing and publishing as PDF
- Nice for reference