

# Verkefni 2

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Explain the POSIX standard by covering briefly:

1. (a) which standardisation bodies (more than one involved!) standardised POSIX,  
POSIX Is primarily standardized by the **IEEE** and **The Open Group**.
- (b) what is the name and/or number (e.g. "ISO 9000-2017" would be the name/number and year) of and year of the latest standard,

The latest standard is **POSIX.1-2017** or **IEEE Std 1003.1** and was published in 2018.

- (c) and what POSIX is about in general,

POSIX defines a set of standards for compatibility among operating systems. Its specifications focus on:

- APIs
- Command-line shells and Utilities
- Common definitions and environment variables.

2. what each of the volumes

- (a) "Base Definitions", **Svar:**Explains fundamental concepts, definitions and headers.
- (b) "System Interfaces", **Svar:**Details C-language system calls and functions (APIs) for creating POSIX-compliant applications.
- (c) "Shell & Utilities" **Svar:**Describes the standard shell (command interpreter) and core command-line utilities.

is about (you can omit the volume "Rationale"; for the other volumes, 1 or 2 sentences per volume are sufficient: just have a brief look into the different "volumes" listed at the above URL to get an idea about each volume).

3. Do some research on your own (and name the source you used) to give

- (a) a brief overview of the history of POSIX,
  - POSIX was created because many different UNIX variants were incompatible with each other. Created in 1988 by the IEEE.
  - The solution was POSIX which was a source code standard so that different UNIX systems could be compatible.
  - The name POSIX was chosen by Richard Stallman instead of IEEE-IX.
- Sourced from Wikipedia on POSIX and <https://thelinuxcode.com/posix-standard/>