

General Programing Steps

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| 1. Query platforms | | |
| 2. Query devices of the platform | | <code>cl::sycl::device_selector</code> |
| 3. Create context for the devices | | |
| 4. Create command queue (for context and device) | | <code>cl::sycl::queue</code> |
| 5. Create program object (for context) | X | Handled by compiler |
| 6. Build the program | | |
| 7. Create memory objects (within context) | | <code>cl::sycl::buffer</code> |
| 8. Create kernel | | lambda expressions |
| 9. Set kernel arguments | | |
| 10. Enqueue the kernel object for execution | | <code>queue.submit</code> |
| 11. Transfer Data from Device to Host | | implicit via accessors |
| 12. Event handling | | buffer accessors or <code>cl::sycl::event</code> |
| 13. Clean up | X | implicit via destructors |