Creating a Workspace

(Workspace)

↳ Directory containing ROS2 packages.

[Underlay]   [Overlay]

⇒ Package declare their dependencies in the package.xml file.

⇒ $ Colcon build   {To build packages in a workspace}

⇒ Once the build is finished, the following new directories will be created.

[build] [install] [log] [src]

↳ }This is where your workspace's setup files are, which you can use to Source your overlay{

★ Source the Overlay

⇒ Before sourcing the overlay, it is very important that you open a new terminal, separate from the one where you built the workspace.

↳ Sourcing an overlay in the same terminal where you built, or likewise building where an overlay is sourced, may create complex issues.

```
$ source /opt/ros/foxy/setup.bash
$ cd ~/dev_ws
$ . install/local_setup.bash
```

⇒ <u>Note:</u>

* Sourcing the local_Setup of the overlay will only add the packages available in the overlay to your environment.

* Setup Sources the overlay as well as the underlay it was created in, allowing you to utilize both workspaces.

* So, Sourcing you main ROS 2 installation's Setup and then the dev_ws overlay's local_setup, is the same as just sourcing dev_ws's setup, because that includes the environment of the underlay it was created in.

⇒ If ~~there~~ package with same name is available in both underlay & overlay, then overlay take precedence.

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