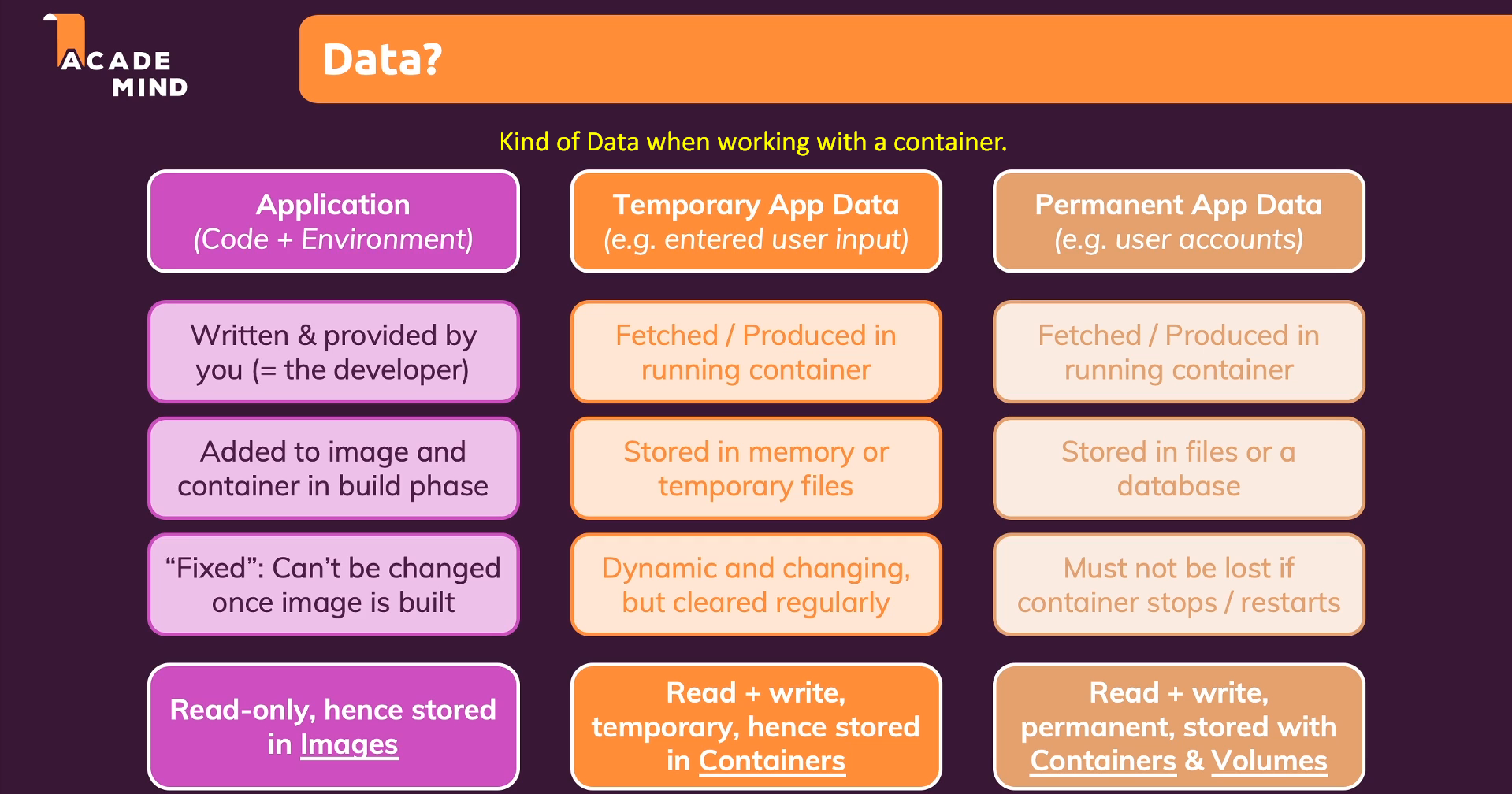
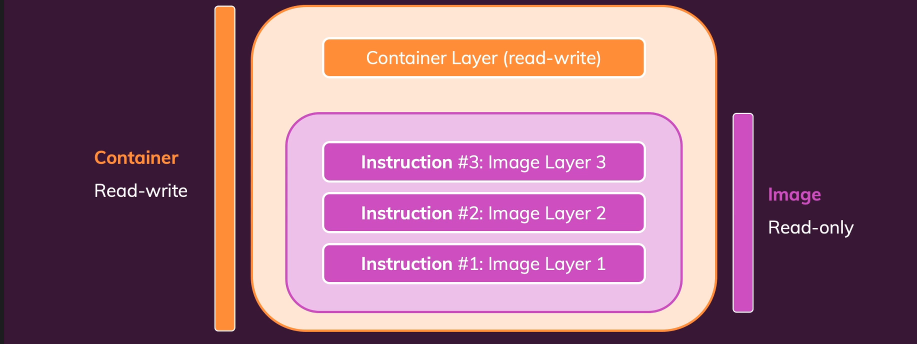
1. We need to understand what kinds of data we have in order to understand which kinds of problems we can face and what kinds of problems can be solved.
2. **Kinds of Data**:  
   
   1. **Application = Code + Environment**.
      1. So, we have an app which is source code and the environment in which it runs.
      2. This is what we talked about a lot in our last module.
      3. Some code parts are written by us and some are from dependencies.
      4. Fixed: Now when we build an image, the complete source code (along with dependencies) and environment are copied into the image and the image is fixed which means whatever is inside the image can’t be changed.  
         Images are REAL-ONLY.
      5. But we also want our source code and environment must be read-only which copied into an image.
   2. **Temporary App Data**:
      1. Data Generated while the app is running.
      2. Such data which is stored in local variables or temporary files in docker (We call it temporary because those files will be gone when the container is gone).  
         Such data and files are stored in extra container of container.   
         Extra layer means when we create a container from an image, an extra layer is put on top of the image which makes it a container.  
         Docker has READ-WRITE access on this layer.   
         Actually, this is where container’s file system is managed.  
           
         The final file system for that container is after applying the local changes on that file system on the file system in the image and this is managed by Docker in very efficient way.
   3. **Permanent App Data**:
      1. When a user signs up and we want to persist that data in a file or DB.
      2. 