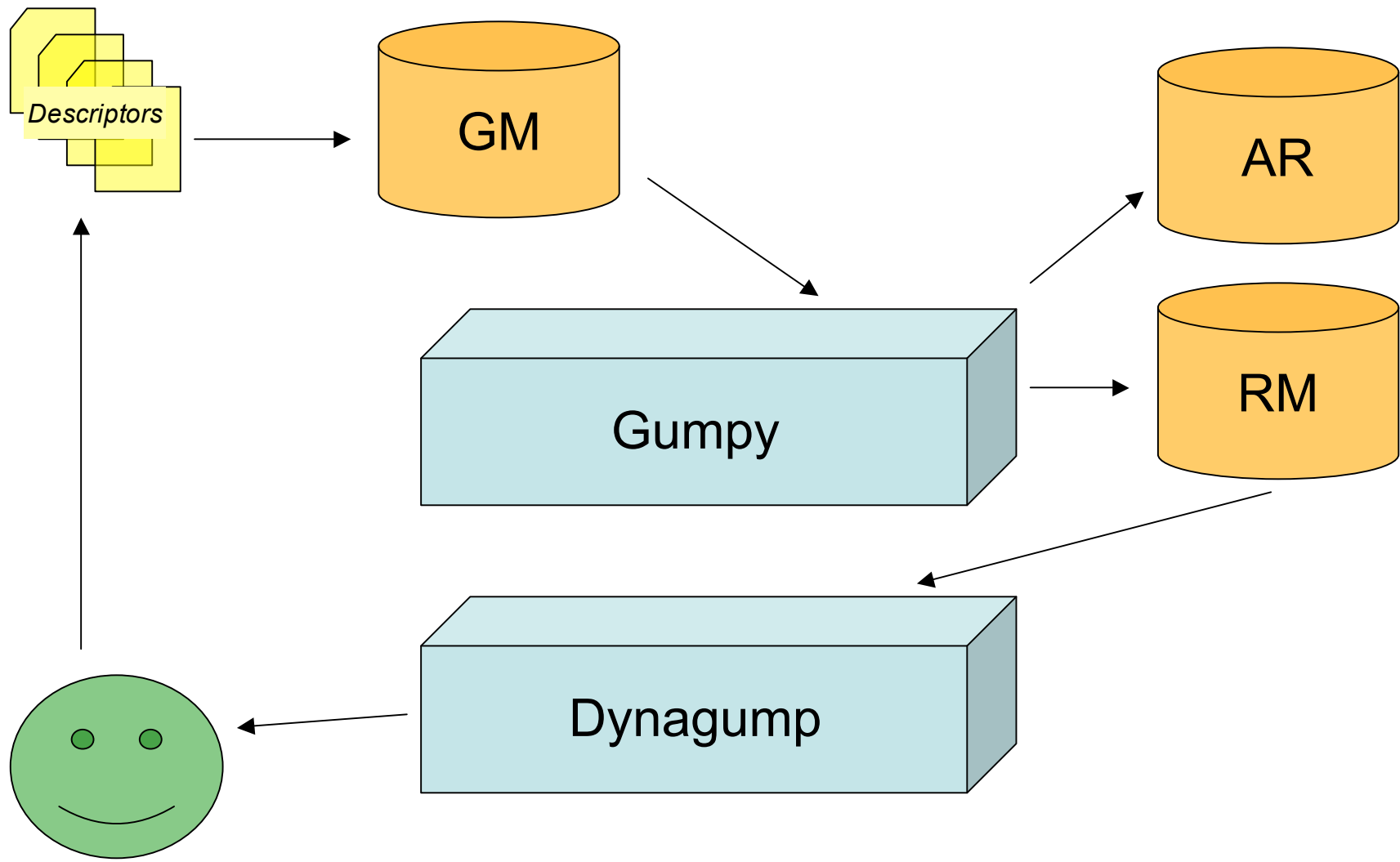
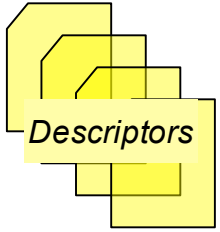


# Workflow model

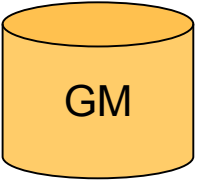




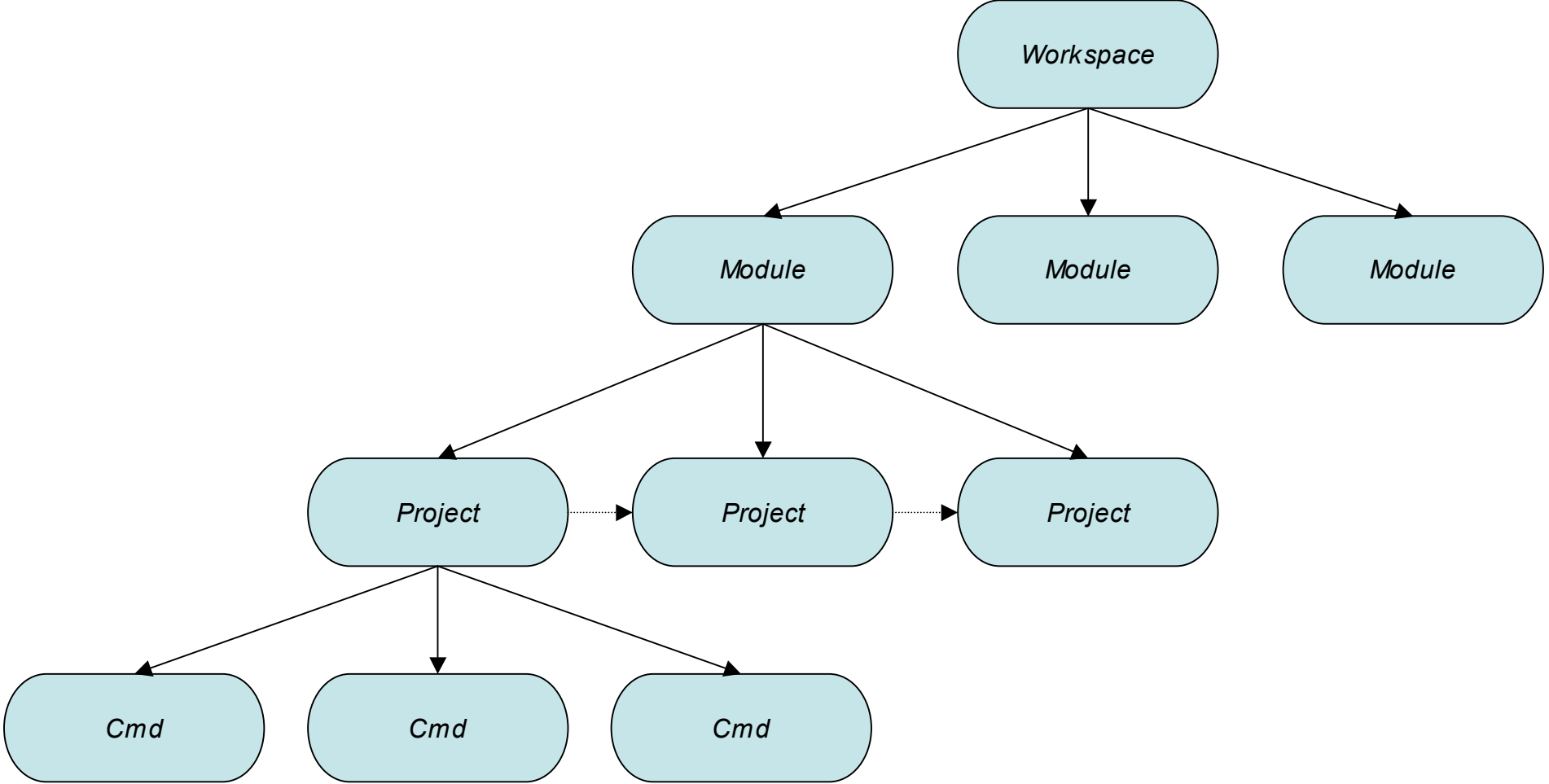
# Descriptors

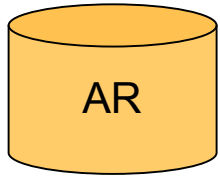
```
<workspace>
  <module>
    <svn .../>

    <project name="myproject">
      <ant target="jar"/>
      <jar name="build/myproject.jar"/>
      <depend name="otherproject"/>
      ...
    </project>
  </module>
  <module href="project/other.xml">
</workspace>
```



# Metadata



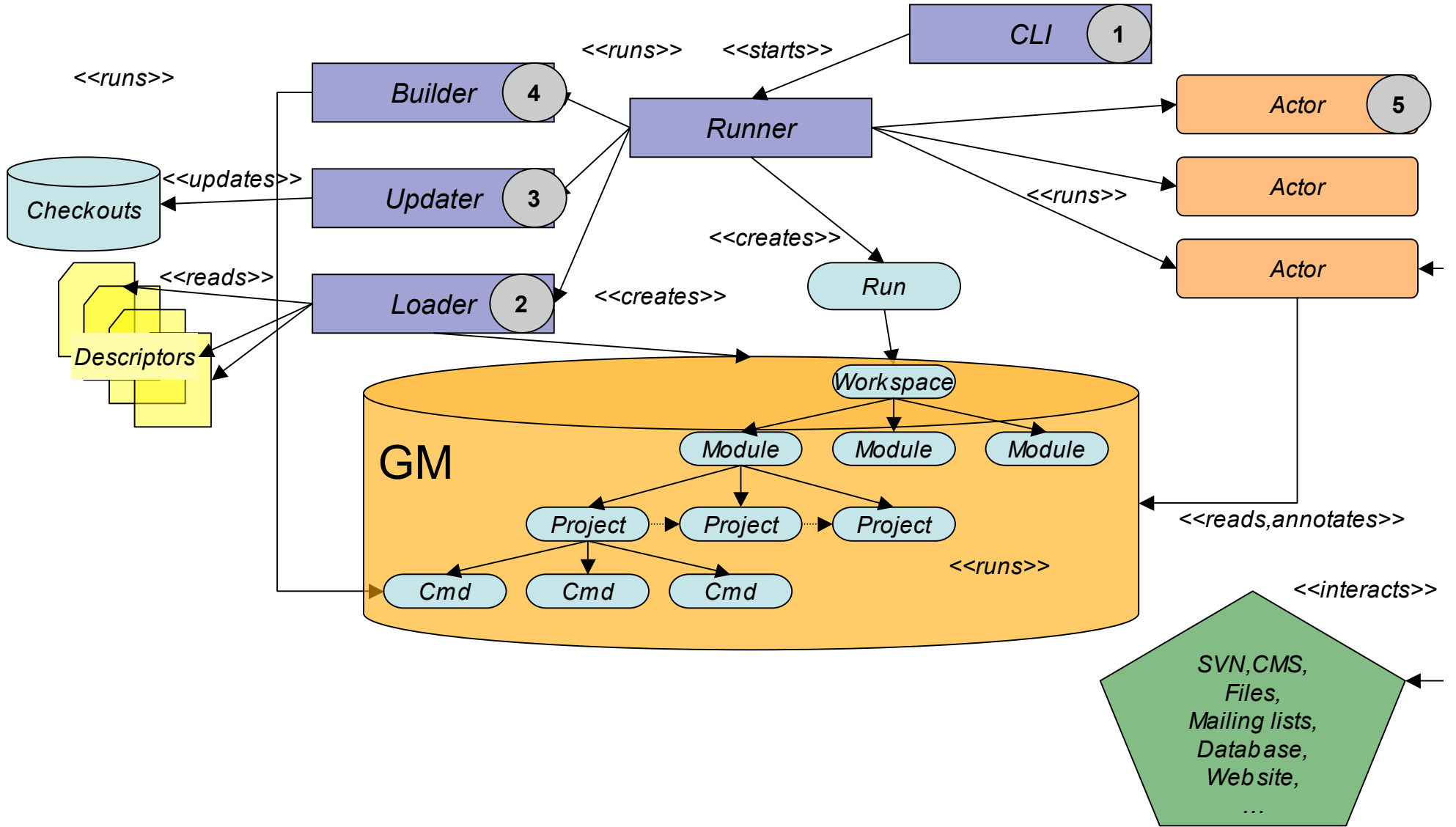


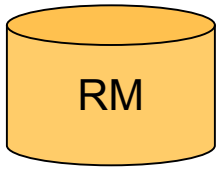
# Artifact Repository



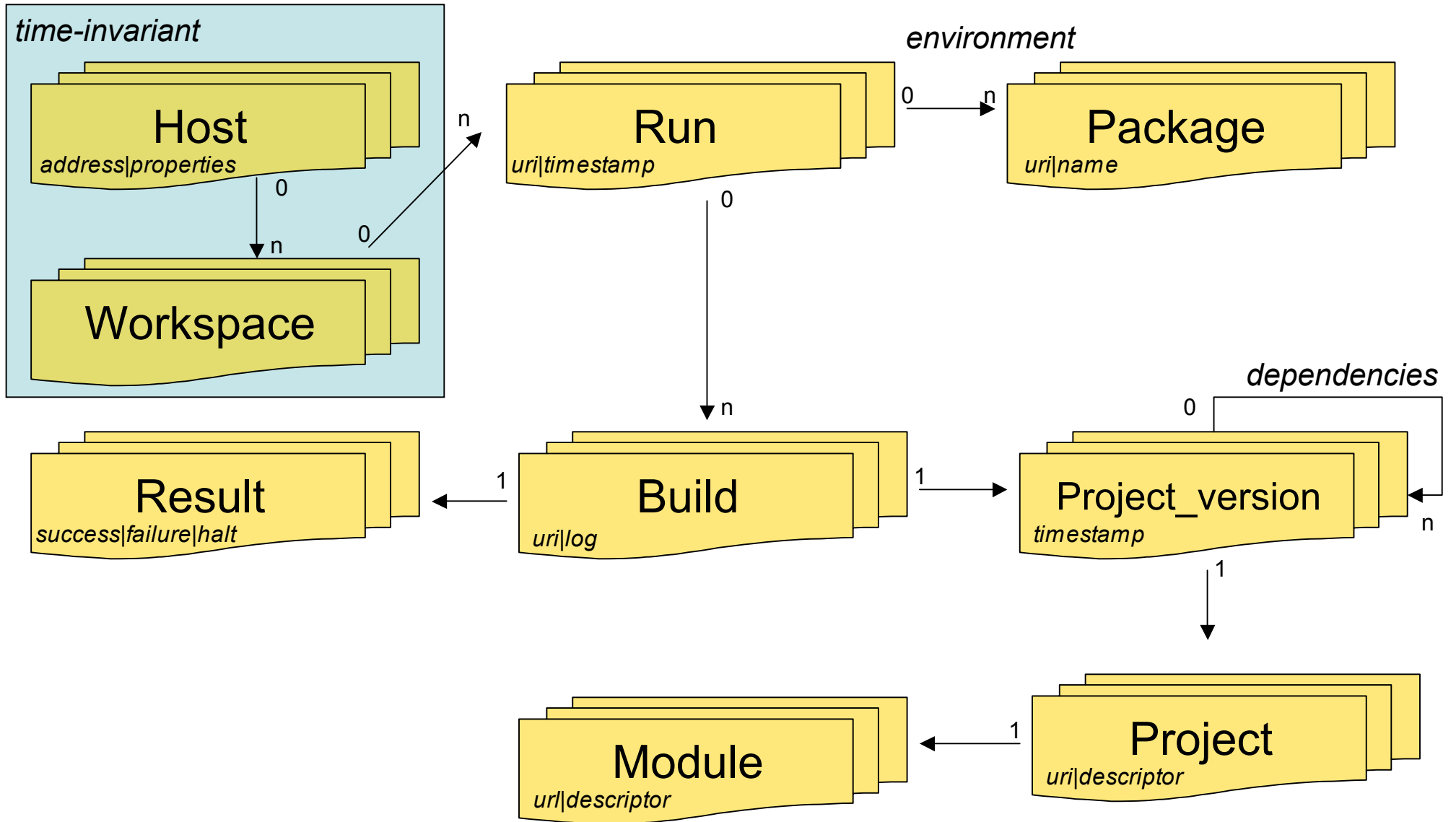
Gumpy

# Gumpy



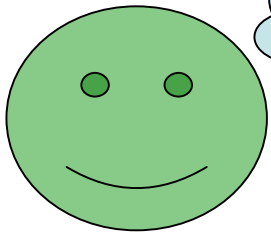


# Runtime Metadata (RM)







# Dynagump

**I don't really get it!  
Could you make gump easier to  
use?  
And make it a little prettier as well?**

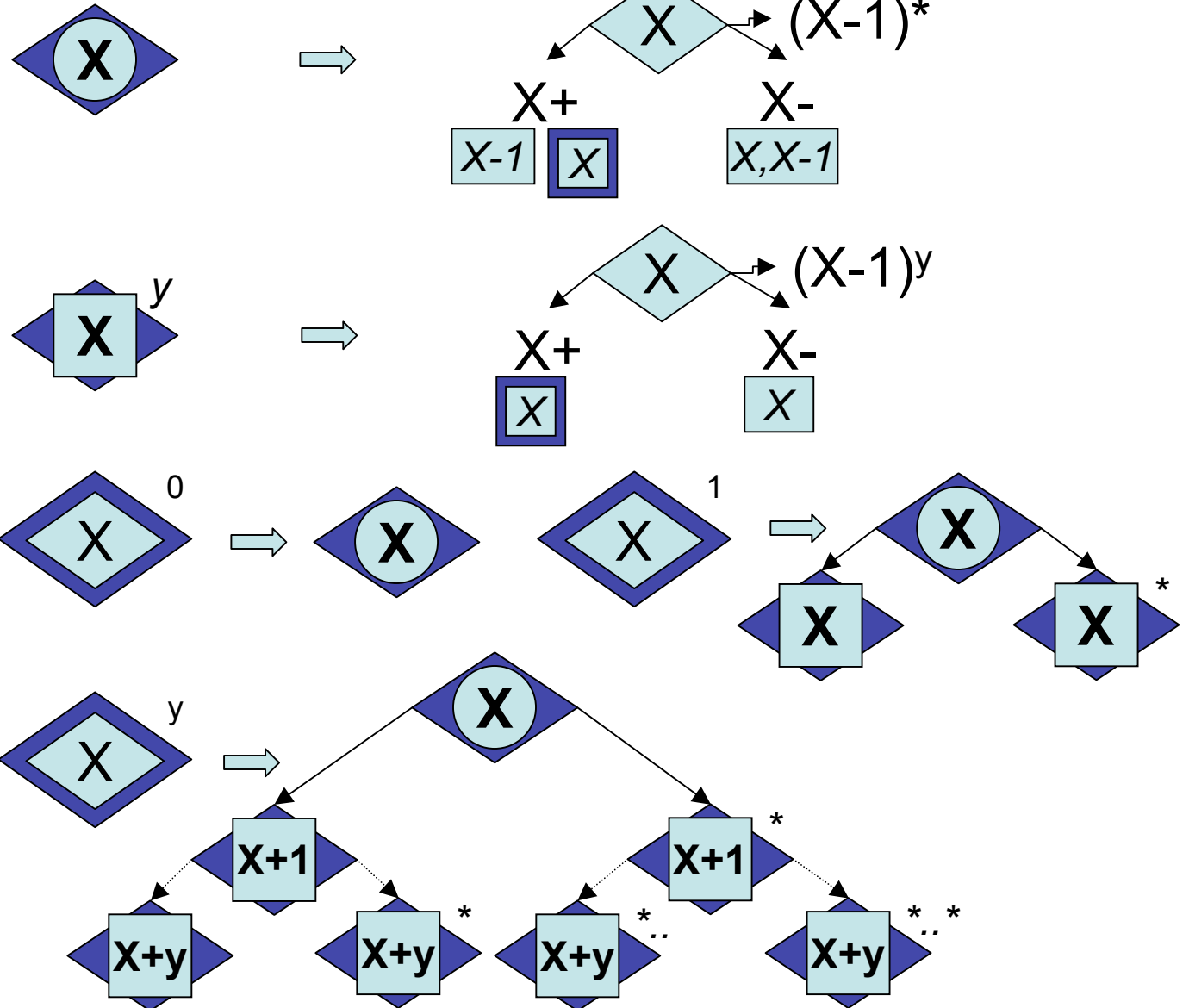


# Gumpy Runner algorithm (1)

## Building blocks:

-  Building project "A"
- $A^+$  Project "A" built successfully
- $A^-$  Project "A" failed to build successfully
- $A^*$  Last successful build of project "A"
-  Send e-mail to project "A"
-  Send e-mail to project "A" if this state has persisted for "a while"
-   $B^*$  Build project "A" against " $B^*$ "

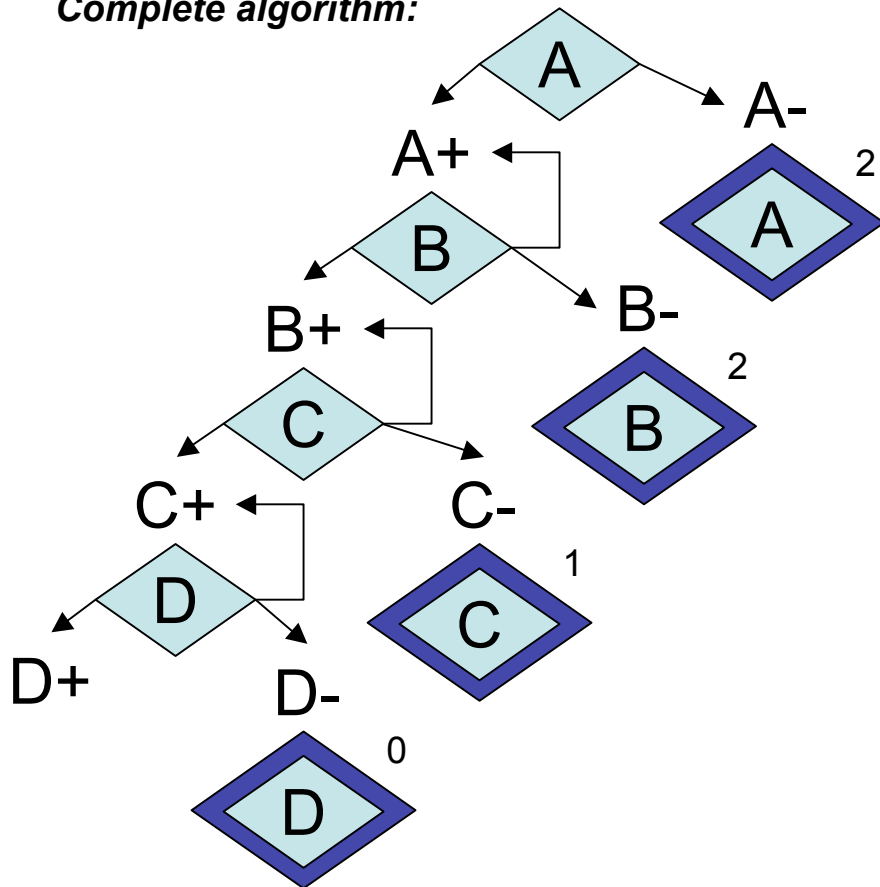
## Algorithm parts:





# Gumpy Runner algorithm (2)

Complete algorithm:



*This tree shows the basic control flow for gumpy. “Build all projects starting from the top of the tree (“A”), if successful, use that build further on, otherwise, use one from a previous run (“A\*”). Send e-mail to “A” or “B” based on the result of those attempts.*

*There are several things not clearly shown here (like the fact that most projects have multiple dependencies), but the “basics” of detecting “cause” are in there.*