Soft entries in CK describe how to detect if a given software is already installed, how to set up all its environment including all paths (to binaries, libraries, include, aux tools, etc), and how to detect its version

```
$ ck list soft:compiler*
```

```
$ ck detect soft:compiler.gcc
$ ck detect soft --tags=compiler,gcc
$ ck detect soft:compiler.llvm
```

```
$ ck search soft --tags=rtl,codelet
```

```
$ ck detect soft:lib.rtl.milepost.codelet
```

Env entries are created in CK local repo for all found software instances together with their meta and an auto-generated environment script **env.sh** (on Linux) or **env.bat** (on Windows)

```
$ ck  show env
$ ck show env –tags=gcc
$ ck rm env:* –tags=gcc
```

Local CK repo

local / env / c0eaf14b359a3cf4 / env.sh
Tags: compiler,gcc,v7.1.0

local / env / 20a8624092518682 / env.bat
Tags: compiler,gcc,v4.9.2

Package entries describe how to install a given software if it is not already installed (using CK Python plugin together with **install.sh** script on Linux host or **install.bat** on Windows host)

```
$ ck list ck-autotuning:package:*
$ ck list package:*caffemodel*
$ ck search package –tags=caffe
$ ck list package:*tensorflow*
```

```
$ ck install package:lib-rtl-milepost-codelets
$ ck install package:caffemodel-bvlc-googlenet
$ ck install package:imagenet-2012-val
$ ck install package:lib-caffe-bvlc-master-cpu-universal
$ ck install package:lib-tensorflow-cpu-make
```