

```
# This YAML text file specifies
# a minimal coupling for MOSSCO
# using only two components
# and default couplers/intervals
```

```
coupling: (a)
  components:
    - A
    - B
```

```
# This YAML text file specifies
# a more elaborate coupling for MOSSCO
# using three components and two couplers
```

```
dependencies: (b)
  - B: A # run B after A
  - C: B # run C after B
```

```
instances:
  - C: A # run C as instance of A
```

```
coupling:
  - components:
    - A # send component
    - B # receive component
    interval: 10 h # Dt_AB in Fig. 2
  - components:
    - B
    - A
    interval: 10 h
  - components:
    - C
    - B
    interval: 14 h # Dt_CB in Fig. 2
  - components:
    - A
    - D # this is the coupler
    - C
    interval: 34 h # Dt_AC in Fig. 2
```

```
#!/bin/bash
```

```
1 export MOSSCO_DIR=$HOME/MOSSCO/code (c)
2 export MOSSCO_SETUPDIR=$HOME/MOSSCO/setup
3 export NETCDF=NETCDF4
4 git clone --depth=1 git://git.code.sf.net/p/mossco/code $MOSSCO_DIR
5 git clone --depth=1 git://git.code.sf.net/p/mossco/setup $MOSSCO_SETUPDIR
6 make -C $MOSSCO_DIR external # download external codes
7 mkdir -p $HOME/opt/bin
8 export PATH=$PATH:$HOME/opt/bin
9 ln -sf $MOSSCO_DIR/scripts/mossco.sh $HOME/opt/bin/mossco # "installation"
10 cd $MOSSCO_SETUPDIR/helgoland # choose a Helgoland 1D setup
11 mossco jfs # starts a 1D pelagic-sediment simulation
```