

choose_blocks

- ▶ a yaml **dictionary** with an extended functionality in ESM-Tools
- ▶ **choose_blocks** are what in programming languages is known as a **select case** or **switch statements**

Fortran

```
SELECT CASE (<selector>)  
  CASE (<pattern-1>)  
    statements-1  
  CASE (<pattern-2>)  
    statements-2  
  ...  
END SELECT
```

Bash

```
case <expression>  
  case <pattern-1>)  
    statements-1  
  ;;  
  case <pattern-2>)  
    statements-2  
  ;;  
  ...  
esac
```

Matlab

```
switch <selector>  
  case <pattern-1>  
    statements-1  
  case <pattern-2>  
    statements-2  
  ...  
end
```

ESM-Tools

```
choose_<selector>:  
  <case-1>:  
    statements-1  
  <case-2>:  
    statements-2  
  ...
```

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Use

- in any yaml file, but normally in the **configuration files**

Purpose

- allows to control a full set of configurations under one single selector variable

Example

fesom-2.1.yaml

```
choose_icb_code:
  True:
    add_namelist_changes:
      namelist.config:
        icebergs:
          use_icebergs: "${use_icebergs}"
          use_icesheet_coupling: "${use_icesheet_coupling}"
          steps_per_ib_step: 8
```

your_runscript.yaml

```
fesom:
  icb_code: True
```

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Syntax

```
choose_<selector_variable>:  
  <case-1>:  
    statements-1  
  <case-2>:  
    statements-2  
  ...
```



There are very good use-case examples in the awiesm.yaml, the instructors will show those after the hands-on exercise

Advance syntax

- Allows for selecting a case based on variables in a different section

```
general  
computer  
<model name> (i.e. echam, fesom, ...)
```

- Allows to set an statement if the value does not match a case

- if the selector variable does not match any case, use the statement indented under "*"
- optional

```
choose_<section>.<selector_variable>:  
  <case-1>:  
    statements-1  
  <case-2>:  
    statements-2  
  "*":  
    statements-3
```