

Testing the **coder** package

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1 Have **pygments**?

```
Path=/Users/jlaurens/opt/anaconda3/bin/pygmentize
WITH PYGMENTS
Path=/Users/jlaurens/opt/anaconda3/bin/python
```

2 Sandbox

3 Testing the tag mechanism

4 `\CDR_tag_choices_set:`

5 `\CDR_tag_boolean_set:`

6 `int`

7 `\CDRSet`

8 `\CDRCode`

9 `CDRBlock`

9.1 Line numbering

9.1.1 **fancyvrb** linear

CDRSet:

- `pygments=false`

A

Block options:

- `tags=none`

- numbers=none

A

Block options:

- tags=none
- numbers=left
- firstnumber=last

A

B

C

Block options:

- tags=none
- numbers=left
- firstnumber=last

A

B

C

Block options:

- tags=none
- numbers=left
- firstnumber=last

A

B

C

9.1.2 fancyvrb multi tags

CDRSet:

- pygments=false

Block options:

- tags={A,B,C}
- numbers=left
- firstnumber=last

A=*1,B=1,C=1

Block options:

- tags={B,C}
- numbers=left
- firstnumber=last

A=2,B=*2,C=2

A=2,B=*3,C=3

Block options:

- tags=C
- numbers=left
- firstnumber=last

A=2,B=4,C=*4

A=2,B=4,C=*5

Block options:

- tags={C, B}
- numbers=left
- firstnumber=last

A=2,B=4,C=*6

A=2,B=5,C=*7

A=2,B=6,C=*8

Block options:

- tags={B, A}
- numbers=left
- firstnumber=last

A=2,B=*7,C=9

A=3,B=*8,C=9

A=4,B=*9,C=9

Block options:

- tags={A,C}
- numbers=left
- firstnumber=last

A=*5,B=10,C=9

A=*6,B=10,C=10

A=*7,B=10,C=11

9.1.3 fancyvrb properties

Block options:

- `pygments=false`
- `tags=none`
- `numbers=left`
- `firstnumber=last`

A
B
C

9.1.4 Display tags

tests start here:

PYGMENTS:true

CDRSet:

- tags={NONE,ENON}
- pygments=true
- lang=lua
- numbers=right
- debug=true
- show tags = none
- firstnumber = 33

PYGMENTS:true

TAGS:NONE,ENON

TAGS:NONE,ENON

Block options:

- stepnumber=1

```
function foo(arg) return 0 end
```

33

NONE:34

ENON:34

Block options:

- stepnumber=1
- firstnumber = last

```
function foo(arg) -- no tags expected
```

34

2

35

3

36

4

37

5

38

6

39

```
end
```

40

NONE:41

ENON:41

Block options:

- stepnumber=1
- firstnumber = auto

```
function foo(arg) -- no tags expected      1
2                                           2
3                                           3
4                                           4
5                                           5
6                                           6
end                                           7
```

NONE:8
ENON:8

Block options:

- pygments
- lang=lua
- numbers=none
- debug
- show tags=none
- only top=false

```
function foo(arg) -- no tags expected
-- second line
-- third line
-- fourth line
-- fifth line
return arg ** arg
end
```

Block options:

- fontfamily=menlo
- fontsize=\large
- pygments=true
- lang=lua
- numbers=left
- debug=true
- show tags
- only top=false

NONE,ENON: 33 **function** foo(arg) **return** arg ** arg **end** -- tags expected

Block options:

- tags={whatever it isp,we are the champions}

- fontfamily=menlo
- fontsize=\large
- pygments=true
- lang=lua
- numbers=left
- debug=true
- show tags
- only top

whatever it
isp, we are the
champions: 33

```
function foo(arg) return arg ** arg end -- tags expected
```

Block options:

- pygments
- lang=lua
- numbers=none
- debug
- showspace
- show tags=none
- only top=false

```
function foo(arg) -- no tags expected
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```

9.1.5 Exhaustive test

CDRSet:

- pygments
- lang=lua
- tags=WHAT
- only top=false

Block options:

- show tags=none

- numbers=None

- stepnumber=1

```
function foo(arg) return arg ** arg end
```

CDRSet:

- show tags=None

- numbers=None

- stepnumber=0

```
function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
function foo(arg)
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```

CDRSet:

- show tags=None

- numbers=None

- stepnumber=1

```
function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
function foo(arg)
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```

CDRSet:

- show tags=None

- numbers=None

- stepnumber=5

```
function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
function foo(arg)
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```

CDRSet:

- show tags=none
- numbers=left
- stepnumber=0

```
1 function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
2 function foo(arg)
3   -- second line
4   -- third line
5   -- fourth line
6   -- fifth line
7   return arg ** arg
8 end
```

CDRSet:

- show tags=none
- numbers=left
- stepnumber=1

```
1 function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
2 function foo(arg)
3   -- second line
4   -- third line
5   -- fourth line
6   -- fifth line
7   return arg ** arg
8 end
```

CDRSet:

- show tags=none
- numbers=left
- stepnumber=5

```
1 function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
2 function foo(arg)
3   -- second line
4   -- third line
5   -- fourth line
6   -- fifth line
7   return arg ** arg
8 end
```

CDRSet:

- show tags=none
- numbers=right
- stepnumber=0

```
function foo(arg) return arg ** arg end 1
```

CDRSet:

- firstnumber=last

```
function foo(arg) 2
  -- second line 3
  -- third line 4
  -- fourth line 5
  -- fifth line 6
  return arg ** arg 7
end 8
```

CDRSet:

- show tags=none
- numbers=right
- stepnumber=1

```
function foo(arg) return arg ** arg end      1
```

CDRSet:

- firstnumber=last

```
function foo(arg)                                2
  -- second line                                3
  -- third line                                 4
  -- fourth line                               5
  -- fifth line                                6
  return arg ** arg                             7
end                                              8
```

CDRSet:

- show tags=none
- numbers=right
- stepnumber=5

```
function foo(arg) return arg ** arg end      1
```

CDRSet:

- firstnumber=last

```
function foo(arg)                                2
  -- second line                                3
  -- third line                                 4
  -- fourth line                               5
  -- fifth line                                6
  return arg ** arg                             7
end                                              8
```

CDRSet:

- show tags=left
- numbers=none
- stepnumber=0

WHAT: `function foo(arg) return arg ** arg end`

CDRSet:

- firstnumber=last

WHAT: `function foo(arg)`
 `-- second line`
 `-- third line`
 `-- fourth line`
 `-- fifth line`
 `return arg ** arg`
 `end`

CDRSet:

- show tags=left
- numbers=none
- stepnumber=1

WHAT: `function foo(arg) return arg ** arg end`

CDRSet:

- firstnumber=last

WHAT: `function foo(arg)`
 `-- second line`
 `-- third line`
 `-- fourth line`
 `-- fifth line`
 `return arg ** arg`
 `end`

CDRSet:

- show tags=left
- numbers=none
- stepnumber=5

WHAT: `function foo(arg) return arg ** arg end`

CDRSet:

- firstnumber=last

```
WHAT: function foo(arg)
      -- second line
      -- third line
      -- fourth line
      -- fifth line
      return arg ** arg
end
```

CDRSet:

- show tags=left
- numbers=left
- stepnumber=0

```
WHAT: 1 function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
WHAT: function foo(arg)
3    -- second line
4    -- third line
5    -- fourth line
6    -- fifth line
7    return arg ** arg
8 end
```

CDRSet:

- show tags=left
- numbers=left
- stepnumber=1

```
WHAT: 1 function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
WHAT: function foo(arg)
3    -- second line
4    -- third line
5    -- fourth line
6    -- fifth line
7    return arg ** arg
8 end
```

CDRSet:

- show tags=left
- numbers=left
- stepnumber=5

WHAT: 1 function foo(arg) return arg ** arg end

CDRSet:

- firstnumber=last

```
WHAT: function foo(arg)
3  -- second line
4  -- third line
5  -- fourth line
6  -- fifth line
7  return arg ** arg
8 end
```

CDRSet:

- show tags=left
- numbers=right
- stepnumber=0

WHAT: function foo(arg) return arg ** arg end 1

CDRSet:

- firstnumber=last

```
WHAT: function foo(arg)
-- second line
-- third line
-- fourth line
-- fifth line
return arg ** arg
end
```

CDRSet:

- show tags=left
- numbers=right
- stepnumber=1

```
WHAT: function foo(arg) return arg ** arg end 1
```

CDRSet:

- firstnumber=last

```
WHAT: function foo(arg) 2
      -- second line 3
      -- third line 4
      -- fourth line 5
      -- fifth line 6
      return arg ** arg 7
end 8
```

CDRSet:

- show tags=left
- numbers=right
- stepnumber=5

```
WHAT: function foo(arg) return arg ** arg end 1
```

CDRSet:

- firstnumber=last

```
WHAT: function foo(arg) 2
      -- second line 3
      -- third line 4
      -- fourth line 5
      -- fifth line 6
      return arg ** arg 7
end 8
```

CDRSet:

- show tags=right
- numbers=none
- stepnumber=0

```
function foo(arg) return arg ** arg end : WHAT
```

CDRSet:

- firstnumber=last

```
function foo(arg)                                : WHAT
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```

CDRSet:

- show tags=right
- numbers=none
- stepnumber=1

```
function foo(arg) return arg ** arg end          : WHAT
```

CDRSet:

- firstnumber=last

```
function foo(arg)                                : WHAT
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```

CDRSet:

- show tags=right
- numbers=none
- stepnumber=5

```
function foo(arg) return arg ** arg end          : WHAT
```

CDRSet:

- firstnumber=last

```
function foo(arg)                                : WHAT
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```


CDRSet:

- show tags=right
- numbers=left
- stepnumber=0

```
1 function foo(arg) return arg ** arg end : WHAT
```

CDRSet:

- firstnumber=last

```
2 function foo(arg) : WHAT
3 -- second line
4 -- third line
5 -- fourth line
6 -- fifth line
7 return arg ** arg
8 end
```

CDRSet:

- show tags=right
- numbers=left
- stepnumber=1

```
1 function foo(arg) return arg ** arg end : WHAT
```

CDRSet:

- firstnumber=last

```
2 function foo(arg) : WHAT
3 -- second line
4 -- third line
5 -- fourth line
6 -- fifth line
7 return arg ** arg
8 end
```

CDRSet:

- show tags=right
- numbers=left
- stepnumber=5

```
1 function foo(arg) return arg ** arg end      : WHAT
```

CDRSet:

- firstnumber=last

```
2 function foo(arg)                               : WHAT
3   -- second line
4   -- third line
5   -- fourth line
6   -- fifth line
7   return arg ** arg
8 end
```

CDRSet:

- show tags=right
- numbers=right
- stepnumber=0

```
function foo(arg) return arg ** arg end      1: WHAT
```

CDRSet:

- firstnumber=last

```
function foo(arg)                               : WHAT
  -- second line                                3
  -- third line                                4
  -- fourth line                               5
  -- fifth line                                6
  return arg ** arg                             7
end                                              8
```

CDRSet:

- show tags=right
- numbers=right
- stepnumber=1

```
function foo(arg) return arg ** arg end      1: WHAT
```

CDRSet:

- firstnumber=last

```
function foo(arg)                                : WHAT
  -- second line                                3
  -- third line                                 4
  -- fourth line                               5
  -- fifth line                                6
  return arg ** arg                             7
end                                              8
```

CDRSet:

- show tags=right
- numbers=right
- stepnumber=5

```
function foo(arg) return arg ** arg end      1: WHAT
```

CDRSet:

- firstnumber=last

```
function foo(arg)                                : WHAT
  -- second line                                3
  -- third line                                 4
  -- fourth line                               5
  -- fifth line                                6
  return arg ** arg                             7
end                                              8
```

CDRSet:

- show tags=numbers
- numbers=none
- stepnumber=0

```
function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
function foo(arg)
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```

CDRSet:

- show tags=numbers
- numbers=none
- stepnumber=1

```
function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
function foo(arg)
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```

CDRSet:

- show tags=numbers
- numbers=none
- stepnumber=5

```
function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
function foo(arg)
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```

CDRSet:

- show tags=numbers
- numbers=left
- stepnumber=0

WHAT: `1 function foo(arg) return arg ** arg end`

CDRSet:

- firstnumber=last

WHAT: `function foo(arg)`
`3 -- second line`
`4 -- third line`
`5 -- fourth line`
`6 -- fifth line`
`7 return arg ** arg`
`8 end`

CDRSet:

- show tags=numbers
- numbers=left
- stepnumber=1

WHAT: `1 function foo(arg) return arg ** arg end`

CDRSet:

- firstnumber=last

WHAT: `function foo(arg)`
`3 -- second line`
`4 -- third line`
`5 -- fourth line`
`6 -- fifth line`
`7 return arg ** arg`
`8 end`

CDRSet:

- show tags=numbers
- numbers=left
- stepnumber=5

WHAT: `1 function foo(arg) return arg ** arg end`

CDRSet:

- firstnumber=last

```
WHAT: function foo(arg)
3  -- second line
4  -- third line
5  -- fourth line
6  -- fifth line
7  return arg ** arg
8 end
```

CDRSet:

- show tags=numbers
- numbers=right
- stepnumber=0

```
function foo(arg) return arg ** arg end 1: WHAT
```

CDRSet:

- firstnumber=last

```
function foo(arg) : WHAT
-- second line 3
-- third line 4
-- fourth line 5
-- fifth line 6
return arg ** arg 7
end 8
```

CDRSet:

- show tags=numbers
- numbers=right
- stepnumber=1

```
function foo(arg) return arg ** arg end 1: WHAT
```

CDRSet:

- firstnumber=last

```
function foo(arg) : WHAT
-- second line 3
-- third line 4
-- fourth line 5
-- fifth line 6
return arg ** arg 7
end 8
```

CDRSet:

- show tags=numbers
- numbers=right
- stepnumber=5

```
function foo(arg) return arg ** arg end      1: WHAT
```

CDRSet:

- firstnumber=last

```
function foo(arg)                                : WHAT
  -- second line                                3
  -- third line                                 4
  -- fourth line                               5
  -- fifth line                                6
  return arg ** arg                             7
end                                              8
```

CDRSet:

- show tags=mirror
- numbers=none
- stepnumber=0

```
function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
function foo(arg)
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```

CDRSet:

- show tags=mirror
- numbers=none
- stepnumber=1

```
function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
function foo(arg)
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```

CDRSet:

- show tags=mirror
- numbers=none
- stepnumber=5

```
function foo(arg) return arg ** arg end
```

CDRSet:

- firstnumber=last

```
function foo(arg)
  -- second line
  -- third line
  -- fourth line
  -- fifth line
  return arg ** arg
end
```

CDRSet:

- show tags=mirror
- numbers=left
- stepnumber=0

```
1 function foo(arg) return arg ** arg end : WHAT
```


CDRSet:

- firstnumber=last

```
2 function foo(arg)                                : WHAT
3   -- second line
4   -- third line
5   -- fourth line
6   -- fifth line
7   return arg ** arg
8 end
```

CDRSet:

- show tags=mirror
- numbers=left
- stepnumber=1

```
1 function foo(arg) return arg ** arg end          : WHAT
```

CDRSet:

- firstnumber=last

```
2 function foo(arg)                                : WHAT
3   -- second line
4   -- third line
5   -- fourth line
6   -- fifth line
7   return arg ** arg
8 end
```

CDRSet:

- show tags=mirror
- numbers=left
- stepnumber=5

```
1 function foo(arg) return arg ** arg end          : WHAT
```

CDRSet:

- firstnumber=last

```
2 function foo(arg)                                : WHAT
3   -- second line
4   -- third line
5   -- fourth line
6   -- fifth line
7   return arg ** arg
8 end
```

CDRSet:

- show tags=mirror
- numbers=right
- stepnumber=0

WHAT: `function foo(arg) return arg ** arg end` 1

CDRSet:

- firstnumber=last

WHAT: `function foo(arg)` 2
 `-- second line` 3
 `-- third line` 4
 `-- fourth line` 5
 `-- fifth line` 6
 `return arg ** arg` 7
 `end` 8

CDRSet:

- show tags=mirror
- numbers=right
- stepnumber=1

WHAT: `function foo(arg) return arg ** arg end` 1

CDRSet:

- firstnumber=last

WHAT: `function foo(arg)` 2
 `-- second line` 3
 `-- third line` 4
 `-- fourth line` 5
 `-- fifth line` 6
 `return arg ** arg` 7
 `end` 8

CDRSet:

- show tags=mirror
- numbers=right
- stepnumber=5

```
WHAT: function foo(arg) return arg ** arg end 1
```

CDRSet:

- firstnumber=last

```
WHAT: function foo(arg) 2
      -- second line 3
      -- third line 4
      -- fourth line 5
      -- fifth line 6
      return arg ** arg 7
end 8
```

10 \CDRExport