

Features

- Syntax highlighting
- Snippets
- Header file
- EPICS type supported
- Based on JSON file

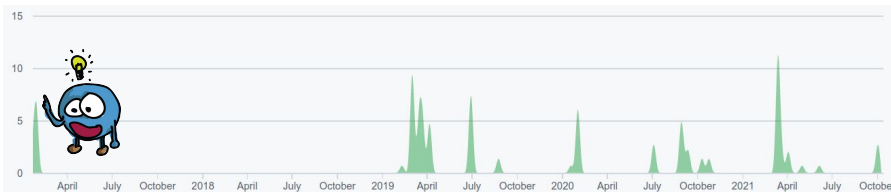
```
# here is my ao comment
record(ao, "${P}${R}pvname") {
    field(DESC, "description")
    field(PREC, "3")
    field(EGU, "Volts")
    field(DRVL, "${DRVL=-10}")
    field(DRVH, "${DRVH=+10}")
    field(VAL, "0.000")
}

# here is my ao comment
record(ao, "${P}${R}pvname") {
    field(DESC, "description")
    field(PREC, "3")
    field(EGU, "Volts")
    field(DRVL, "${DRVL=-10}")
    field(DRVH, "${DRVH=+10}")
    field(VAL, "0.000")
}
```

with and without syntax highlighting

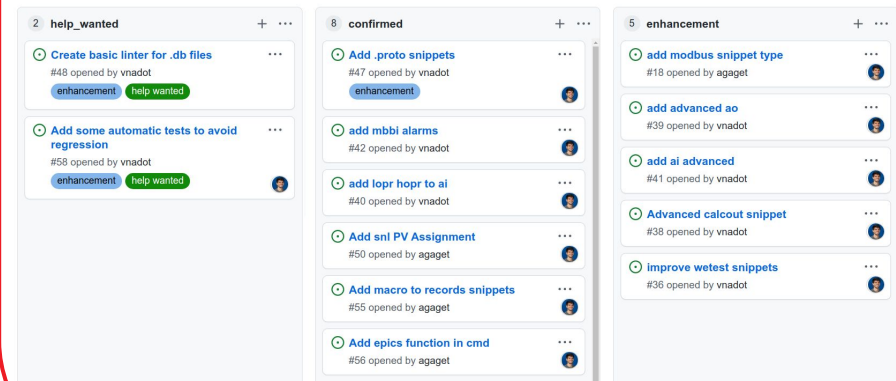
Extension life

- Developments started in 2017
- Number of downloads and contributions motivates us to strongly maintain it for the EPICS community
- Available on Visual Studio Code marketplace and on EPICS extension GitHub



Future developments

- Linter (help wanted)
- Automatic tests to avoid regressions



Features

- Syntax highlighting
- Snippets (records, C asub, ...)
- Header file
- EPICS type supported: .db, .template, .substitutions, .cmd, .st, .proto, .c
- Based on JSON file

```
# file: test.db
# author: victor.nadot@cea.fr
# company: CEA / DRF / IRFU / LDISC
# description: this file is doing that ...
# macros:
# - >> Mandatory
# - P: ${P} | PV prefix
# - >> Optional
# - EGU: ${EGU=Volts} | PV unit
```

File header provided by vscode-epics extension

```
# here is my ao comment
record(ao, "${P}${R}pvname") {
  field(DESC, "description")
  field(PREC, "3")
  field(EGU, "Volts")
  field(DRVL, "${DRVL=-10}")
  field(DRVH, "${DRVH=+10}")
  field(VAL, "0.000")
}

# here is my ao comment
record(ao, "${P}${R}pvname") {
  field(DESC, "description")
  field(PREC, "3")
  field(EGU, "Volts")
  field(DRVL, "${DRVL=-10}")
  field(DRVH, "${DRVH=+10}")
  field(VAL, "0.000")
}
```

With and without syntax highlighting

```
},
"analog output": {
  "prefix": "epics.record.ao",
  "body": [
    "record(ao, \"${1:record_name}\") {",
    "  field(DESC, \"${2:description}\")",
    "  field(PREC, \"${3:3}\")",
    "  field(EGU, \"${4:Volts}\")",
    "  field(DRVL, \"${5:-10}\")",
    "  field(DRVH, \"${6:+10}\")",
    "  field(VAL, \"${7:0.000}\")",
    "}${0}]",
  ],
},
```

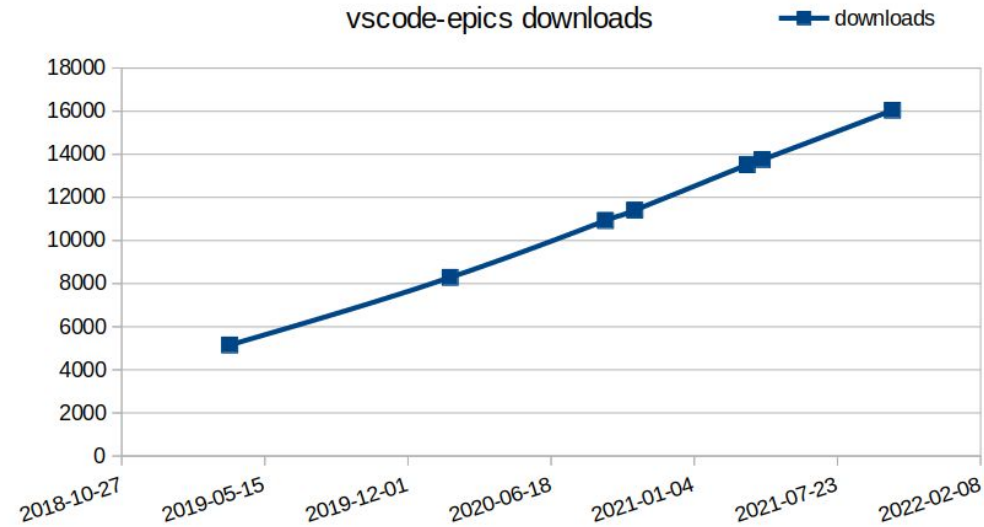
"ao" record snippet code in JSON

```
epics.|
 epics.record.ao analog output
 epics.record.asub aSub Record
 epics.record.bi binary input
 epics.record.bo binary output
```

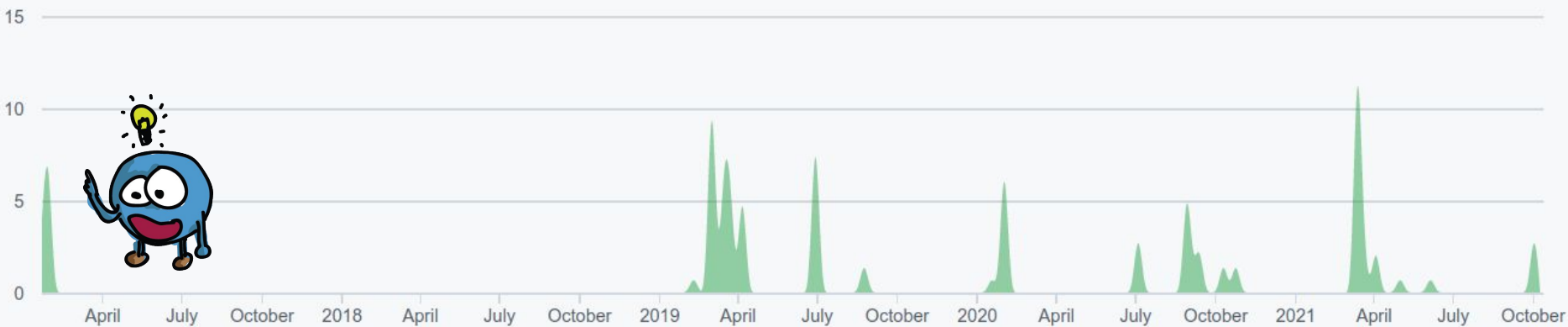
Scrollable list of available snippets

Extension life

- Developments started in 2017
- Many download and contributions from outside the CEA team
- 4 significant contributions from:
 - Institute of Plasma Physics (IPP CAS)
 - European Spallation Source (ESS)
 - Stanford Linear Accelerator Center (SLAC)
 - Diamond Light Source (DLS)
- Available on [Visual Studio Code marketplace](#) and on [EPICS extension GitHub](#)
- Current release is 1.1.0



Number of downloads on vs code marketplace



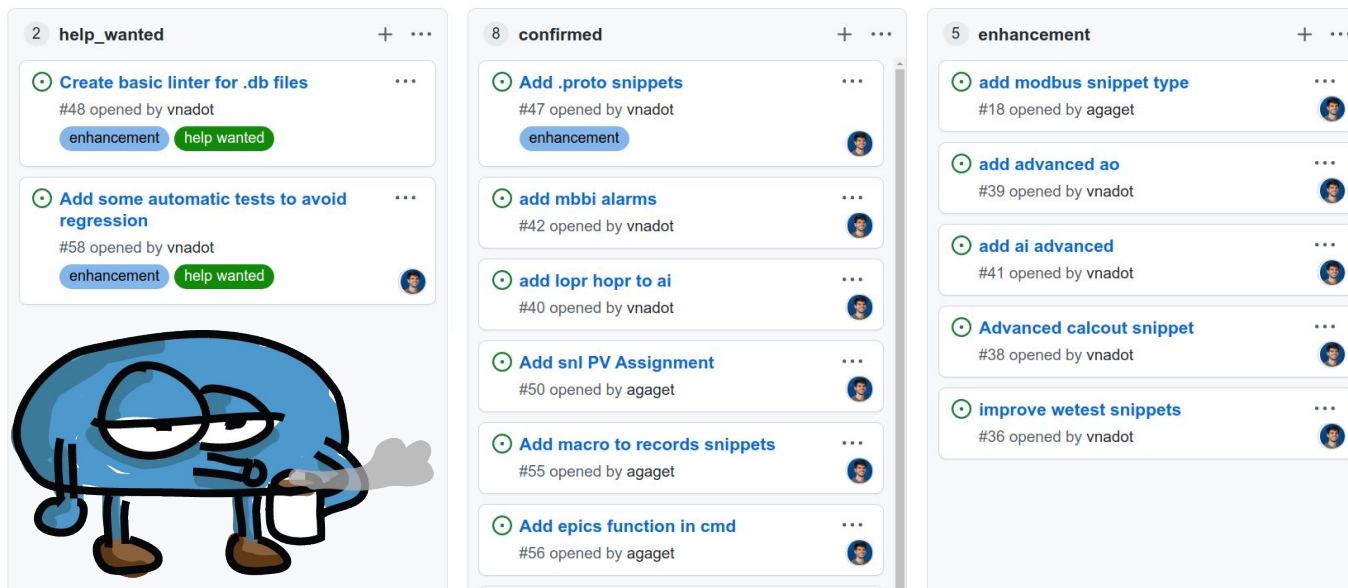
Contributions over the years

Future developments

- Linter:
 - requires a bigger development
 - help wanted, especially from someone with a linter development experience
- Automatic tests will be needed to avoid regressions
- Vscode-epics for Vim (and NeoVim): epics-syntax.vim
 - syntax highlighting is supported
 - in the long term the same features as vscode-epics should be supported

```
record(ao, "${P}${R}pvname") {
  field(DESC, "description")
  field(PREC, "3")
  field(EGU, "Volts")
  field(DRVL, "${DRVL=-10}")
  field(DRVH, "${DRVH=+10}")
  field(VAL, "0.000")
}
```

epics-syntax.vim with the color scheme "gruvbox"



The screenshot shows a Kanban board for the 'vscode-epics' project on Github. It is organized into three columns: 'help_wanted', 'confirmed', and 'enhancement'. Each column contains several task cards, each with a title, issue number, and author. A cartoon character is visible at the bottom left of the board.

Column	Item	Title	Issue #	Opened by	Labels	
help_wanted (2)	1	Create basic linter for .db files	#48	vnadot	enhancement, help wanted	
	2	Add some automatic tests to avoid regression	#58	vnadot	enhancement, help wanted	
confirmed (8)	3	Add .proto snippets	#47	vnadot	enhancement	
	4	add mbbi alarms	#42	vnadot		
	5	add lopr hopr to ai	#40	vnadot		
	6	Add snl PV Assignment	#50	agaget		
	7	Add macro to records snippets	#55	agaget		
	8	Add epics function in cmd	#56	agaget		
	enhancement (5)	9	add modbus snippet type	#18	agaget	
		10	add advanced ao	#39	vnadot	
11		add ai advanced	#41	vnadot		
12		Advanced calcout snippet	#38	vnadot		
13		improve wetest snippets	#36	vnadot		

vscode-epics kanban on Github