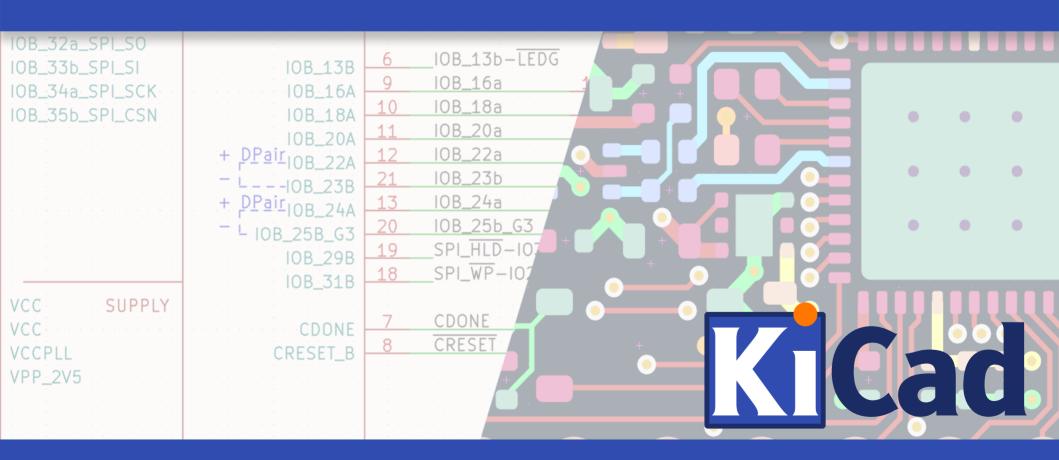
KiCad Project Status





Project News



Project News



- Stable version 8 released January 31st, 2024!
- Version 8 end of year donation campaign raised over \$200K.
- First KiCon Europe in A Coruña, Spain.
- First KiCon Asia in Shenzhen, China on November 12, 2023.
- Add three new members to the lead development team.
- Huaqiu NextPCB providing paid full time developers.
- New head librarian and six new library team members.
- Technical writing team member.
- Würth Elektronik commits to adding entire product line to KiCad libraries.

Project News



- Significant increase in usage in Asia.
- Five platinum sponsors.
- Possibly three KiCad conferences annually.
- KiCad store is now open.





AISLER provides fabrication and assembly services with a portion of each order going to support the development of KiCad



DAI is an international development consulting firm that works to empower people and institutions in developing countries to build a more a prosperous and equitable future.





Digi-Key Electronics offers the world's largest selection of electronic components in stock and available for immediate shipment. From prototype to production, Digi-Key fuels innovation all over the world.



HQ NextPCB specializes in reliable multilayer PCB manufacture and assembly. NextPCB is working with KiCad to provide smart tools to simplify the progression from design to physical product.

Platinum Sponsors





KiCad Services Corporation provides direct support to professional KiCad users. They also donate directly to KiCad via the year-end matching grant.



Version 8

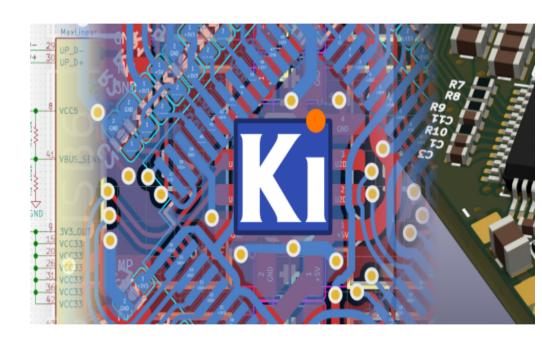




- SVG export improvements.
- Start up splash screen.
- Alternate hot keys.
- Windows arm64 support.
- EasyEDA project importer.
- ERC and DRC from command line interface (JSON output).
- Git integration.



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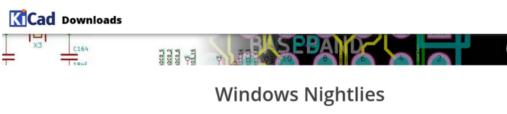




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File

 $kicad-nightly-7.99.0.3493.g1b4e77d53c-x86_64-vcpkg-pdbs.zip$

kicad-nightly-7.99.0.3493.g1b4e77d53c-arm64-pdbs.zip

kicad-nightly-7.99.0.3493.g1b4e77d53c-x86_64-pdbs.zip

kicad-nightly-7.99.0.3493.g1b4e77d53c-arm64-vcpkg-pdbs.zip

kicad-nightly-7.99.0.3493.g1b4e77d53c-arm64.exe

kicad-nightly-7.99.0.3493.g1b4e77d53c-x86_64.exe

kicad-nightly-7.99.0.3493.g1b4e77d53c-x86_64-lite.exe

kicad-nightly-7.99.0.3493.g1b4e77d53c-arm64-lite.exe

kicad-nightly-7.99.0.3482.gab4d9bcb14-arm64-vcpkg-pdbs.zip



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```
$ kicad-cli pcb drc --severity-error ./pic_programmer.kicad_pcb -o pic-programmer-drc.json
Loading board
Running DRC...
Found 16 violations
Found 0 unconnected items
Found 0 schematic parity issues
Saved DRC Report to pic-programmer-drc.json
```

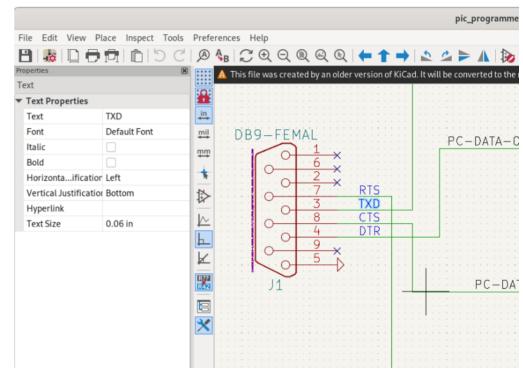
```
** Drc report for ./pic programmer.kicad pcb **
** Created on 2023-11-02T14:20:35-0400 **
** Found 16 DRC violations **
 lib footprint issues]: Footprint 'DIP-8 W7.62mm Socket LongPads' not found in library 'Package DIP'
   Local override; warning
   @(179.0700 mm, 120.6500 mm): Footprint U6
  ib footprint issues]: Footprint 'DIP-8 W7.62mm Socket LongPads' not found in library 'Package DIP'
   @(179.0700 mm, 109.2200 mm): Footprint U1
  ib footprint issues]: Footprint 'DIP-8 W7.62mm LongPads' not found in library 'Package DIP'.
   Local override; warning
   @(110.4900 mm, 57.1500 mm): Footprint U4
 lib footprint issues]: Footprint 'DIP-28 W7.62mm Socket LongPads' not found in library 'Package DIP'
   Local override; warning
   @(207.6450 mm, 50.8000 mm): Footprint P2
 lib footprint issues]: Footprint 'DIP-18 W7.62mm Socket LongPads' not found in library 'Package DIP'
   Local override; warning
   @(207.8990 mm, 107.9500 mm): Footprint U5
 lib footprint issues]: Footprint 'DIP-14 W7.62mm LongPads' not found in library 'Package DIP'.
   Local override; warning
   @(115.5700 mm, 119.3800 mm): Footprint U2
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- Object property panel for schematic and symbol library editors.
- Highlighted net navigator panel.
- Search panel.
- Internal bill of materials (BOM) tool.
- Object grid alignment in schematic and symbol library editors.
- Nested symbol inheritance.
- Tool to check for symbol library differences in schematic.

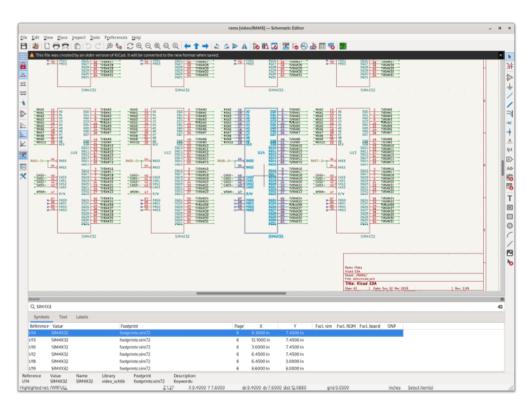




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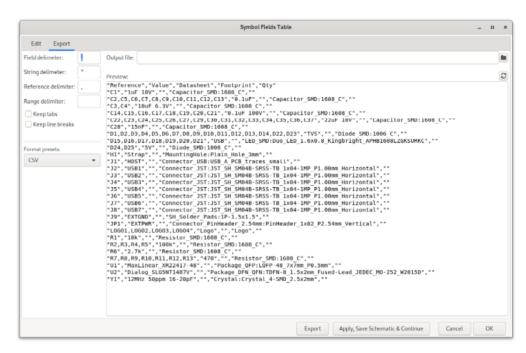


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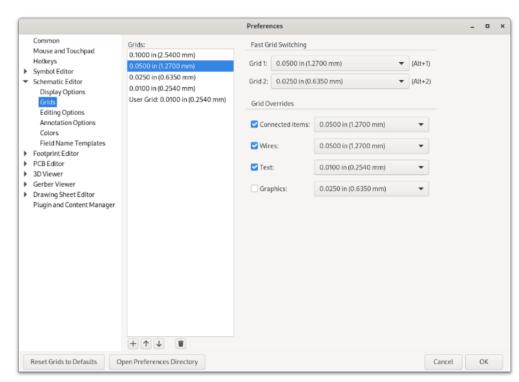


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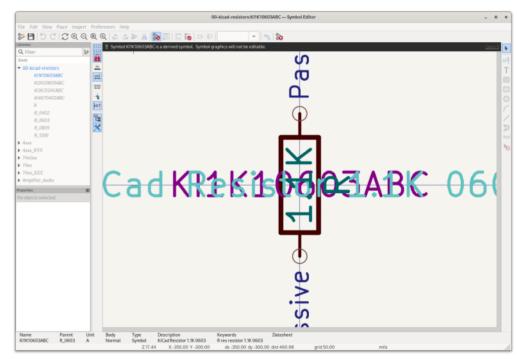


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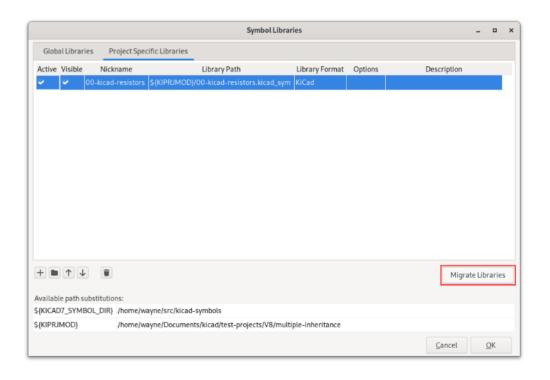
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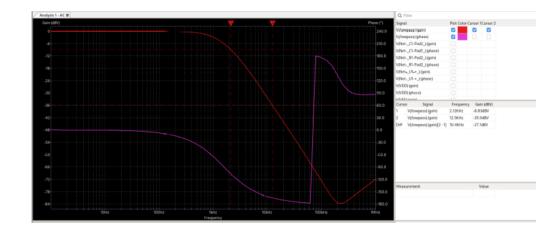


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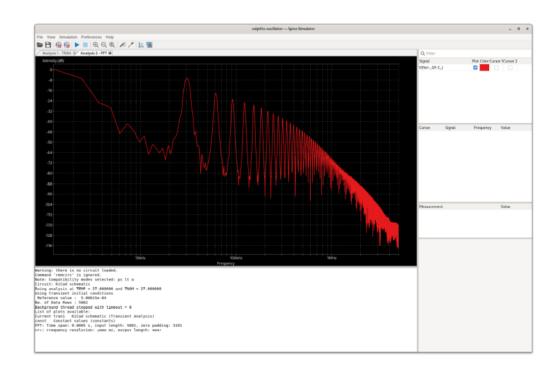




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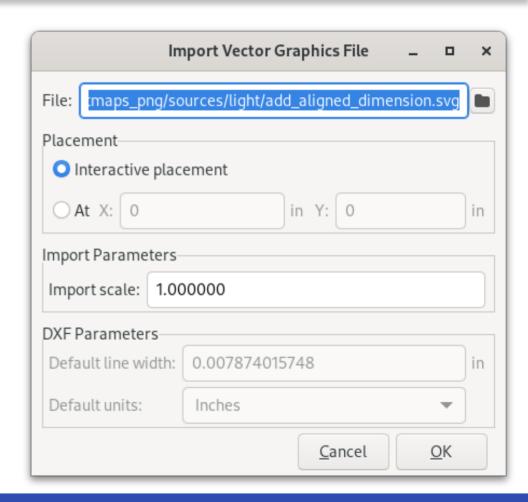




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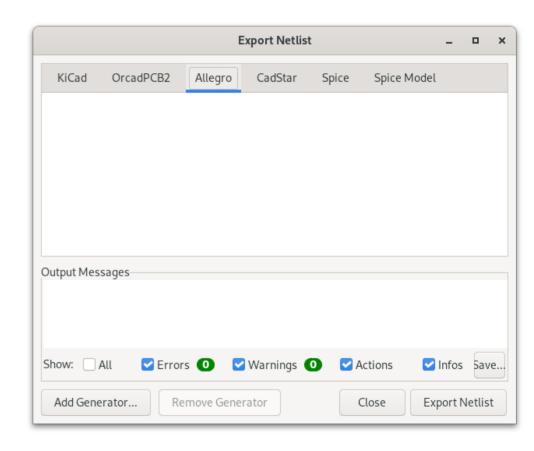


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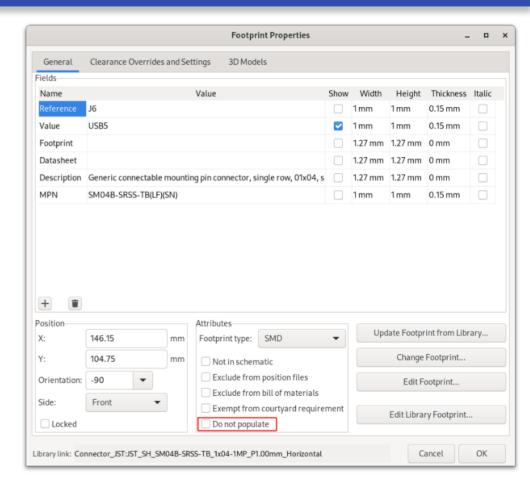
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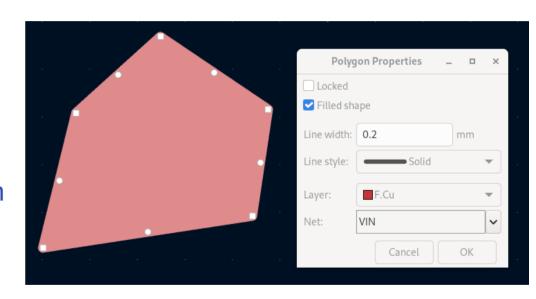


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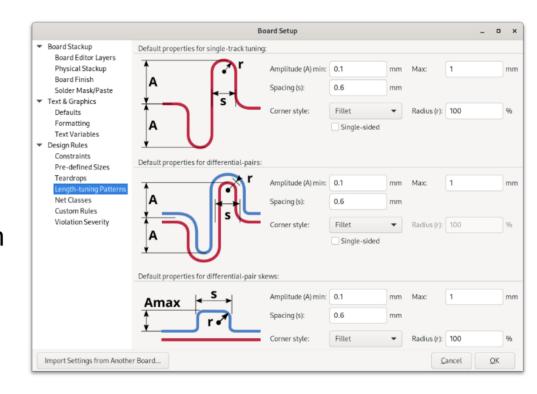


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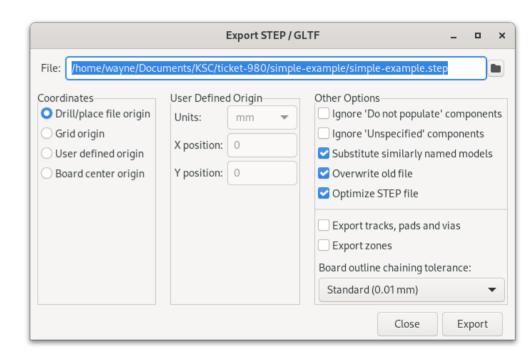


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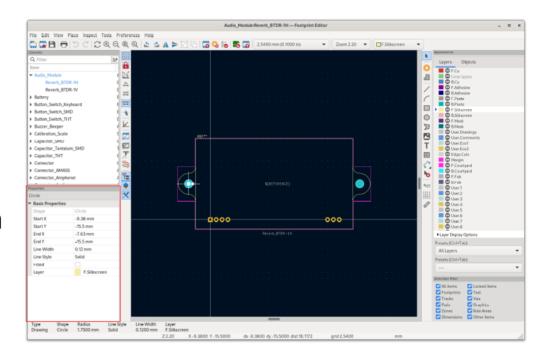


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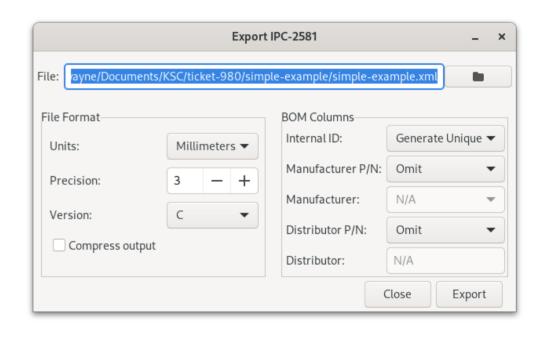




- Footprint editor library tree preview.
- IPC-2581 export.



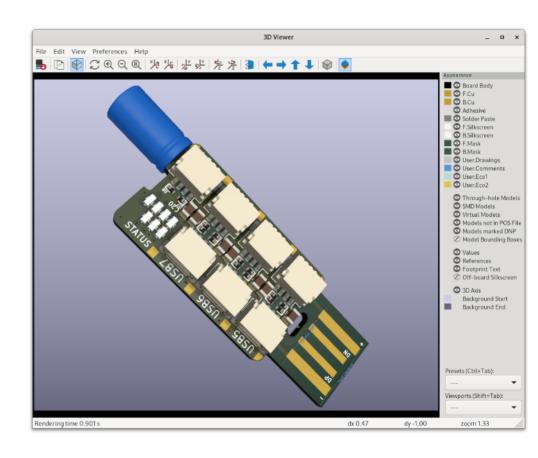
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- IPC-2581 export.



Version 8 Miscellaneous Features



3D viewer improvements.



Version 8 Supported Third Party Tools



	Project	Schematic	PCB	Symbols	Footprints
Altium Designer					
Altium Circuit Maker					
Altium Circuit Studio					
CADSTAR					
EAGLE					
EasyEDA / JLCEDA Std					
EasyEDA / JLCEDA Pro					
Fabmaster	N/A	N/A		N/A	N/A
gEDA					
LTspice	N/A		N/A		N/A
P-CAD					
Solidworks PCB					

Key:

Supported in KiCad 7.0

Supported in KiCad 8.0

Version 8 Statistics



- Source repository: 4500 commits by 15 authors.
- 1.63M lines of code (without translations), 176K lines comments.
- Symbol library: 358 commits, added 1077, total 20233.
- Footprint library: 288 commits, added 507, total 13355.
- 3D model library: 62 commits, added 215, total 6465.
- Translations: 9 languages 99%+ translated, 17 languages 99%+ in V7:(.
- Aisler monthly usage stats for December 2023 shows KiCad at 42%.
- OSHPARK 2023 usage was 37%.



Version 9



Version 9 Common Features



- IPC support for schematic and board editor interface.
- Customizable user interface (including toolbars) layouts.
- Visual diff/merge tool for Git.
- Embedded licenses for library and project files.
- Barcode support.
- Multi-user editing support.
- PADS project importer.
- gEDA project importer.

Version 9 Schematic Editor Features



- Sheet pin and hierarchical label synchronization tool.
- Replace shared schematics with reusable schematics.
- Design blocks.
- Schematic variants.
- Table editing tool.
- Bezier curve editing tool.



- Zone manager.
- Multi-channel designs.
- Pad stacks.
- Guard rings.
- Flexible grid system.
- Bezier curve editing tool.
- Table editing tool.
- Embedded 3D models.
- ODB++ export.

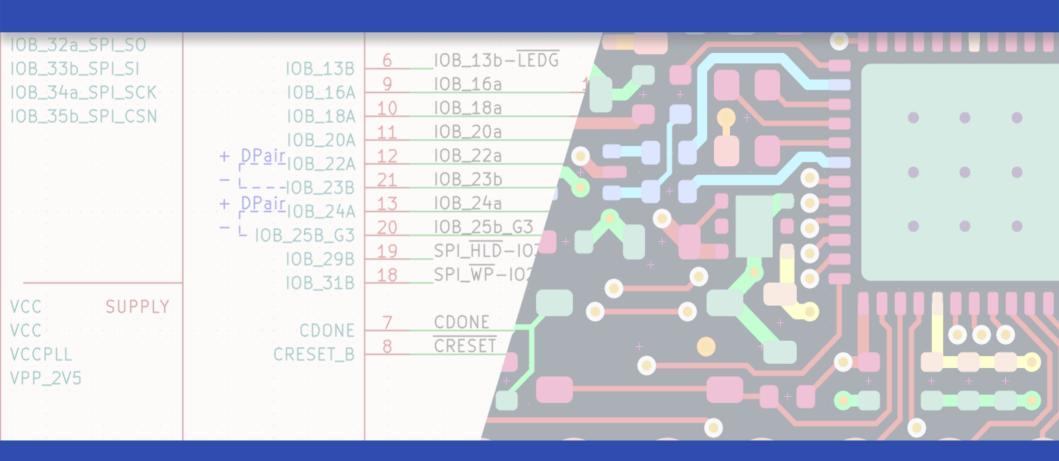
Version 9 Miscellaneous Features



Electromagnetic (EM) simulation.



Wrap Up





Thanks to all of the developers who contribute their valuable time and talent to the KiCad project.

Thank you to all of our sponsors and everyone who has generously donated to KiCad.

Thank you for your interest and continued support of the KiCad project.

Special thanks to Seth Hillbrand for organizing this FOSDEM developers room.

Hope to see you all at a KiCad conference in 2024.