

# PROGRAMINO<sup>®</sup>

Integrated Development Environment for ARDUINO<sup>™</sup> & GENUINO<sup>™</sup>

## PROGRAMINO IDE for Arduino<sup>™</sup> - Technical Specifications

- **Fresh design**
- **Full Arduino<sup>™</sup> compatible (Arduino.cc and Arduino.org)**
- **Use the same folder structure as Arduino IDE**
- **Multi INO-File support**
- **Website editor for IoT applications with Arduino<sup>™</sup>**
- **Comfortable and powerful code editor**
- **Export function to Arduino<sup>™</sup> IDE (good way for older Arduino<sup>™</sup> versions less 1.6.x)**
- **Code auto indent**
- **Free code zooming**

- **Manage full project without project files in one editor**
- **Make your own editor style and share it with friends**
- **Code Autocompletion**
- **Hints & Information about the Arduino™ commands**
- **Customize syntax highlighting**
- **Advanced Reference Search Function (File Cross-Search)**
- **Libraries import function to Sketch folder (Lib copy)**
- **Supported file formats and programming languages**
  - Arduino
  - C
  - C++
  - C Header
  - HTML
  - HTML5
  - JavaScript
  - CSS
  - Text
- **IDE languages**

- English, German

### **All functions of the PROGRAMINO IDE...**

- **File**

- Add New Sketch
- Add New File
- Open File
- My Sketchbook
- Arduino Examples
- Terminal Log
- Save
- Save As...
- Save as RFT
- Save as HTML
- Copy Project...
- Print
- Quit

- **Edit**

- Zoom to 100%
- Undo
- Redo

- Cut
- Copy
- Paste
- Select All
- Navigate Backward
- Navigate Forward
- Find
- Replace
- Auto indent select Text
- Comment Selected
- Multi Comment Selected Text (STRG+K+U)
- Multi Uncomment Selected Text (STRG+K+C)
- Clone Line(s)
- Clone Line(s) and Comment
- Add Bookmark
- Remove Bookmark
- Goto Bookmark
- Ask Google (Goole Keyword Search)

- **Options**

- Editor Settings
- Language (English, German)

- **IDE settings**

- **Editor**
  - Create a template for a new file
  - Create new sketch at program starting
  - Syntax highlighting
  - Dynamic syntax highlighting
  - Activate hyperlinks
  - Show line numbers
  - Highlighting changed lines
  - Autocomplete brackets
  - Enable codefolding
  - Context menue
  - Short object explorer
  - Show autocomplete menu
  - Force autocomplete menu
  - Show Project-Explorer Icons
  - Show margin
  - Show autocomplete hints
  - Show autocomplete menue
  - Show save message window
  - Show closed message window
  
- **Font/Color**
  - Font settings
  - Tab length
  - Change syntax highlighting schemes

- Customize syntax highlighting schemes for alle supported languages
  - Import/Export syntax highlighting schemes
- **Customize templates for all supported languages**
- **Arduino location path setting**
- **My Sketchbook location path setting (user folder)**
- **Compiler settings**
- **View settings (Toolbar)**
  - Show Explorers (Project and Object Explorer)
  - Show Invisible Char
  - Highlight Current Line
  - Show Collapse/Expand Code Folding
  - Undo/Redo
  - Navigate
  - Bookmarks
  - Verify
  - Verify and Upload
  - Open Arduino IDE (Export Function)
  - Webbrowser
  - Terminals
  - Notepad

- LCD-Designer
- Value Converter
- RGB-LED Color Selector
- Analog Plotter
- Hardware Viewer
- Find Keyword

- **Sketch**

- Verify Code
- Verify and Upload Code
- Open Project in the Arduino IDE
- Import Library
- Grap HEX-File

- **Supported hardware**

- Arduino Uno
- Arduino Zero
- Arduino/Genuino 101
- Duemilanove or Diecimila ATmega168
- Duemilanove or Diecimila ATmega328
- Arduino Leonardo
- Arduino MEGA 2560
- Arduino MEGA ADK
- Arduino Due

- Arduino Esplora
- Arduino Ethernet
- Arduino YUN
- Arduino Pro ATmega168 3,3V 8MHz
- Arduino Pro ATmega168 5V 16MHz
- Arduino Pro ATmega328 3,3V 8MHz
- Arduino Pro ATmega328 3,3V 8MHz
- Arduino Mini ATmega168
- Arduino Mini ATmega328
- Arduino Mirco
- Arduino Nano ATmega168
- Arduino Nano ATmega328
- Arduino Fio
- Arduino Blue ATmega168
- Arduino Blue ATmega328
- Arduino NG or older ATmega8
- Arduino NG or older ATmega168
- LilyPad Arduino USB
- LilyPad Arduino ATmega168
- LilyPad Arduino ATmega328
- Arduino Robot Motor
- Arduino Robot Control
- Arduino Gemma
- Controllino Mini
- Controllino Maxi



- Controllino Mega
- eHajo Gescheiduino
- User defined board...
  
- **Comport settings for upload**
  
- **Web editor tool for IoT (required ethernet or WLAN)**
  - **Standard**
    - Arduino Client.print()
    - Arduino Clie.println()
    - Image
    - Hyperlink
    - Name anchor
    - Canvas
    - Horizontal rule
    - Comment
    - Meta tag
      - Meta Tag “author”
      - Meta Tag “content-type”
      - Mega Tag “description”
      - Meta Tag “expire”
      - Meta Tag “keywords”
      - Meta Tag “organization”
      - Meta Tag “language”

- Meta Tag “refresh”
- Canonical Link
- **Structure**
  - Container (block)
  - Container
  - Layer
  - Paragraph
  - Link break
  - Line break opportunity
  - Article
  - Header
  - Footer
  - Section
  - Pull Quote
  - Navigation
  - Figure
  - Figure caption
  - Group of headings
  - Details
  - Summary
  - Sample Text
  - Output
  - Data
  - Date/time value

- **Format**
  - Bolt
  - Strong Emphasis
  - Italic
  - Emphasis
  - Underline
  - Struck through
  - Fixed character size
  - Subscript
  - Superscript
  - Quote
  - Marked Text
  - Font size
  - Font face
    - Verdana, Arial, Helvetica
    - Tahoma
    - Courier New
    - Monospace
  - Font color
  - Centered
  - Justified
  - Right justified
  - Heading H1
  - Heading H2

- Heading H3
- Heading H4
- Heading H5
- Heading H6

○ **Table**

- Insert table (3x3)
- Table row
- Table cell
- Table header row
- Table head
- Table body
- Table foot
- Column group
- Column

○ **List**

- List item(s)
- List (unordered)
- List (round bullet point)
- List (square bullet point)
- Numeration (1, 2, 3, ...)
- Enumeration (I, II, III, ...)
- Numeration (A, B, C, ...)
- Definition list

- Definition term
- Definition text

- **Form**

- Form
- Text box
- Password box
- Text area
- Check box
- Radiobutton
- Combo box
- List box
- List item
- Data list
- Group box
- Legend
- Hidden control
- Progress Indicator
- Submit button
- Reset button
- Button
- Picture button
- File upload
- Command
- Event Source

- **Frame**

- Frameset
  - Left
  - Right
  - Left, Right
  - Top
  - Footer
  - Top, Footer
  - Top, Left
  - Top, Right
  - Top, Left, Right
  - Top, Full left
  - Top, Full right
  - Top, Full left, Full right
- Frame
- Frame alternative
- Internal frame

- **Active**

- Application/interactive content
- Embedding alternative
- Java applet
- AktiveX control
- Parameter

- Video
  - Audio
  - Media Source
  - Track (textual)
  - Adobe Flash Movie
  - Adobe Shockwave Object
  - Video (Windows Media Player)
  - Youtube Video
  - Silverlight 2
  - RSS Feed Auto-Discover
- **JavaScript**
  - Script Tag
  - Script Alternativ
- **Color selector**
- **Tools**
  - Serial Terminal 1
  - Serial Terminal 2
  - Notepad
  - LCD-Designer
  - Value Converter
  - RGB-Color Selector
  - Analog Plotter

- Hardware Viewer

- **Help**

- Programino Help
- Check for new Version
- ADCII Table
- LCD Matrix
- Hot-Keys
- And more...

- **Project explorer**

- Open Selected File
- Add Exist File
- Delete File
- Refresh

- **Object explorer**

- Sort File
- Jump to function