

Software

A selection of free and open source programming languages, platforms and environments in digital art production

Context

[Black Girls Code](#)

[Code.org](#)

[Codecademy](#)

[CoderDojo](#)

[Dataflow Programming \(Wikipedia\)](#)

[dyne.org \(Free Software Foundry\)](#)

[DZone Snippets \(Source Code Repository\)](#)

[EasyWeb \(Software Research Platform\)](#)

[Girls Who Code](#)

Distributed Revision Control and Source Code Management

[Git](#)

[Git Immersion](#)

[GitHub](#)

Hypertext Authoring

Context

[Immersive Storytelling Platforms, Apps, Resources & Tools](#)

[Interactive Fiction \(Wikipedia\)](#)

Programs

[Eko: Interactive Cinema Online](#)

[Esri Story Maps](#)

[GuriVR](#)

[Hopscotch](#)

[HypeDyn](#)

[Inform](#)

[shiftr: The Internet of Things Prototyping Platform](#)

[Texture](#)

Stylometry

[JGAAP](#)

[Signature](#)

Audio Software

Audacity (Audio Recording and Editing Software)
Baudline (Sound Visualization and Analysis Tool)
Nodal (Generative Music Software)
sndpeek (Real-Time Audio Visualization Tool)
Sonic Visualiser (Sound Visualization and Analysis Tool)
SoX - Sound eXchange
TAPESTREA (Environmental Audio Tool)
WaveSurfer (Sound Visualization and Manipulation Tool)

Audio Programming Languages

(fluxus) [sa trenutnim odzivom (Live Coding)]
Chuck (Audio Programming Language) [sa trenutnim odzivom (Live Coding)]
Chsound
Faust (Functional Audio Stream) [sa trenutnim odzivom (Live Coding)]
Gibber [sa trenutnim odzivom (Live Coding)]
MUSIC-N (Wikipedia)
Overtone (Open Source Audio Environment) [sa trenutnim odzivom (Live Coding)]
SuperCollider (Audio Synthesis Programming Language) [sa trenutnim odzivom (Live Coding)]
Tidal [sa trenutnim odzivom (Live Coding)]
TOPLAP [sa trenutnim odzivom (Live Coding)]
urMus [sa trenutnim odzivom (Live Coding)]

Imaging and Graphics

GraphicsMagick
Hugin (Panorama Photo Stitcher)
ImageJ
ImageMagick
Inkscape (Vector Graphics Editor)

Data Visualization / Infographics

Programs

Circos
Cytoscape
Gephi
NodeBox
OpenRefine
RapidMiner (Data Mining, Analytics and Visualization)
Tableau Public

Bookmarklets

[NVD3.js](#)

[SVG Crowbar](#)

Libraries

[Arbor.js](#)

[Chroma.js](#)

[Cubism.js](#)

[D3.js](#)

[Dance.js](#)

[Data.js](#)

[Envision.js](#)

[Google Charts](#)

[Kartograph](#)

[Leaflet](#)

[Miso](#)

[Modest Maps](#)

[Paper.js](#)

[Peity](#)

[PhiloGL](#)

[Polymaps](#)

[Prefuse](#)

[prefuse flare \(Data Visualization\)](#)

[Protovis](#)

[Raphaël](#)

[React](#)

[Recline](#)

[Rickshaw](#)

[Sigma.js](#)

[Tabula](#)

[Tangle](#)

[TimelineJS](#)

[Unfolding](#)

[Vega](#)

Programming Languages

[GDL \(GNU Data Language\)](#)

[GNU Octave](#)

[List of Information Graphics Software \(Wikipedia\)](#)

[R \(Data Visualization\)](#)

[The R Project for Statistical Computing](#)

Toolkits

[JavaScript InfoVis Toolkit](#)

Web Services

[CartoDB](#)

[Colorbrewer](#)

[GeoCommons](#)

[Google Fusion Tables](#)

[I Want Hue](#)

[Many Eyes](#)

[MapBox](#)

[Mister Nester](#)

[Mr. Data Converter](#)

[Quadrigram](#)

Computer Vision, Image Analysis, Motion Tracking

[Clarifai](#)

[Computer Vision, Carnegie-Mellon University](#)

[Computer Vision for Artists and Designers](#)

[OpenCV](#)

[Tracker](#)

[Wekinator](#)

Video Editing and Processing

[Avidemux \(Video Editing\)](#)

[AviSynth \(Video Editing Frameserver\)](#)

[AviSynth+ \(Video Editing Frameserver\)](#)

[FFmpeg](#)

[FFmpeg Wiki](#)

[Magic Lantern \(Functionality add-on for Canon DSLR Cameras\)](#)

[VideoLAN Movie Creator \(Video Editing\)](#)

[Video Projection Tool \(Mapped Projection\)](#)

[Video Projection Tool Manual \(Mapped Projection\)](#)

[VirtualDub \(Video Capture and Processing Tool\)](#)

3D

[Blender](#)

[BRL-CAD](#)

[DAZ 3D](#)

[Godot](#)

[Google SketchUp](#)

Softimage|XSI Mod Tool
Structure Synth

Online Tools

Toolstudio

Visual Programming Languages

jMax

Max (Wikipedia)

NodeWebba

NodeWebba (GitHub)

Node-RED (GitHub)

Node-RED UI Dashboard (GitHub)

Pure Data

Scratch

TouchDesigner

VL

vvv

Wikipedia: List of Visual Programming Languages

XOD

Live Coding

(fluxus)

CodeHint

Conception

Csound

Extempore

Faust (Functional Audio Stream)

Field

FoxDot

Gibber

Gibber (About)

LiveCode

Livecodelab

Overtone (Open Source Audio Environment)

Shadertoy

Sonic Pi

TidalCycles

TOPLAP

urMus

Programming Development Environments (IDE, PDE)

Eclipse (Programming Development Environment)
EyesWeb (Programming Development Environment)
Polycode (Programming Framework)

Programming Languages, Frameworks and Libraries

Cinder (C++ Library)
Context Free Design Grammar
Hackety Hack! (Ruby)
Haxe (Cross-platform Toolkit)
Rust
Wiring (Programming Framework for Microcontrollers)

OpenGL

OpenGL

Python

Python (Programming Language)
Python Mode for Processing

Processing

Creative Coding (Processing)
Daniel Shiffman: Learning Processing
Daniel Shiffman: Processing Workshop
Daniel Shiffman: The Nature of Code (Processing)
Daniel Shiffman: Programming from A to Z (Java)
Mobile Processing (Programming Language and Environment)
OpenProcessing
Python Mode for Processing
Processing (Programming Language and Environment)

Programming Libraries and Frameworks

d3.js (JavaScript Library)
deeplearn.js (JavaScript Library)
Magenta.js
Node.js
robot.js (JavaScript Library for Node.js) (GitHub)
robot.js (JavaScript Library for Node.js)
openFrameworks (C++ Coding Toolkit)
ofxAddons (openFrameworks Libraries Repository)
p5.js
Paper.js (JavaScript Library)

[pocode](#)

[Processing.js \(JavaScript Library\)](#)

[Raphaël \(JavaScript Library\)](#)

[TensorFlow.js](#)

[three.js \(JavaScript Library\)](#)

Hardware

A selection of open source, compact hardware devices in digital art

General

[Soft Robotics Toolkit](#)

2D Printers

[Makeblock XY Plotter Robot Kit v2.0](#)

[MakeBlock XY-Plotter Robot Kit v2.0 \(With Electronics\) - RobotShop](#)

3D Scanners

[DAVID](#)

[DepthKit](#)

[Intel RealSense](#)

[Kinect](#)

[Orbbec](#)

[Photogrammetry Resources](#)

3D Printers

[Airwolf 3D Printers](#)

[MakerBot](#)

[Ultimaker](#)

3D Services

[3D Hubs](#)

[FabHub](#)

[TPB Physibles](#)

Microcontrollers and SoCs

[BasicX](#)

[BITalino](#)

[Embedded Pi](#)

[Fab@Home](#)

[Fritzing](#)

I-CubeX
Intel Galileo
Lantronix Communication
littleBits
Pandaboard (Single-board Computer)
PIC Chip
Raspberry Pi
RepRap
Teensy
Tini Micro Controllers
WeIO
Wikipedia: Comparison of Single-board Computers

Arduino
123D Circuits
Arduino
Freeduino (Index of Arduino and Freeduino Knowledge)
codebender

Robots
UFactory