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2.6 Python-2.0 (6)

A. HISTORY OF THE SOFTWARE =====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release from	Derived	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Android adaptation and tweak by Jim Huang <jserv@0xlab.org>.

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strtok_r, from Berkeley strtok
Oct 13, 1998 by Wes Peters <wes@softweyr.com>

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Theo de Raadt <deraadt@openbsd.org> came up with the idea of using
such a mathematical system to generate more random (yet non-repeating)
ids to solve the resolver/named problem. But Niels designed the
actual system based on the constraints.

Later modified by Damien Miller to wrap the LCG output in a 15-bit
permutation generator based on a Luby-Rackoff block cipher. This
ensures the output is non-repeating and preserves the MSB twiddle
trick, but makes it more resistant to LCG prediction.

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2.13 Animal Sniffer Annotations (13)

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2.15 ARM_NEON_2_x86_SSE (15)

created by Victoria Zhislina, the Senior Application Engineer, Intel Corporation, victoria.zhislina@intel.com

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2.17 Blackmagic DeckLink SDK - Mac (17)

Extracted from mac/include/DeckLinkAPI.h:

```
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2.18 blink HTMLTokenizer (18)

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2.19 Braille Translation Library (19)

(Copied from src/liblouis/liblouis.h.in)

/* liblouis Braille Translation and Back-Translation Library

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2.22 bspatch (22)

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2.23 C++ port of zxcvbn, an advanced password strength estimation library. (23)

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2.24 Cardboard SDK (24)

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2.26 Checked in build outputs generated on Windows. (26)

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2.28 Checker Util (28)

Checker Framework utilities

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2.33 Compact Language Detector v3 (33)

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2.34 Core ML Tools (34)

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2.35 core-common (35)

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December 9, 2016

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2.36 d3 (36)

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2.37 dav1d is an AV1 decoder :) (37)

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2.38 dom-distiller-js (38)

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2.41 Emoji (41)

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2.42 etc1 (42)

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2.43 FarmHash (43)

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2.44 feature-delivery (44)

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April 10, 2009

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2.45 firebase-iid-interop (45)

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December 9, 2016

AndroidX lifecycle common library, AndroidX lifecycle livedatacore library, AndroidX lifecycle runtime library:

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December 9, 2016

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2.47 FlatBuffers (47)

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2.48 FP16 (48)

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2.49 Fuchsia GN SDK (49)

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2.50 Fuse.js (50)

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2.51 getopt (51)

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December 9, 2016

2.53 Google Chrome Content Analysis Connector Agent SDK (53)

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2.56 google-glog's symbolization library (56)

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2.57 googleid (57)

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December 9, 2016

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April 10, 2009

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This hyphenation dictionary is based on syllable matching patterns and
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2.64 IAccessible2 COM interfaces for accessibility (64)

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2.67 ISimpleDOM COM interfaces for accessibility (67)

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2.72 libb7 (72)

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2.73 libei (73)

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2.76 libpng (76)

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2.77 libsecret (77)

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2.79 libutf (79)

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2.80 libx11 (80)

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2.83 libxslt (83)

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2.84 libzip (84)

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2.85 Lit (85)

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2.86 Lottie Web (86)

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#####

BezierEasing - use bezier curve for transition easing function
by Gaëtan Renaudeau 2014 - 2015 - MIT License

Credits: is based on Firefox's nsSMILKeySpline.cpp
Usage:
var spline = BezierEasing([0.25, 0.1, 0.25, 1.0])
spline.get(x) => returns the easing value | x must be in [0, 1] range

2.87 lottie_ios (87)

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2.91 minigbm (91)

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2.92 mitt (92)

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2.93 modp base64 decoder (93)

```
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2.104 play-services-auth (104)

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December 9, 2016

Animal Sniffer:

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ASM: a very small and fast Java bytecode manipulation framework

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2.106 play-services-auth-base (106)

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December 9, 2016

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2.107 play-services-auth-blockstore (107)

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December 9, 2016

Animal Sniffer:

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2.108 play-services-cast (108)

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Version 1.1

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2.109 play-services-cast-framework (109)

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Version 1.1

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2.112 play-services-gcm (112)

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December 9, 2016

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2.115 play-services-location (115)

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December 9, 2016

Animal Sniffer:

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Version 1.1

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December 9, 2016

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2.120 Protocol Buffers (javascript) (120)

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2.121 PSM (Private Set Membership) client side (121)

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2.122 Puffin deterministic deflate recompressor (122)

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2.123 rapidhash (123)

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 *
 * You can contact the author at:
 * - rapidhash source repository: https://github.com/Nicoshev/rapidhash
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```

2.124 re2 - an efficient, principled regular expression library (124)

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2.125 reactive-streams (125)

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2.126 readability (126)

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2.127 Recurrent neural network for audio noise reduction (127)

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2.128 ScreenAI Library (128)

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Julian Seward, jseward@acm.org
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AVX implementation of sin, cos, sincos, exp and log

Based on "sse_mathfun.h", by Julien Pommier

<http://grunthepeon.free.fr/ssemath/>

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== eigen3

Eigen 3.3.90

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Following applies to:
./test/sparseqr.cpp
./test/half_float.cpp
./test/zerosized.cpp
./test/nesting_ops.cpp
./test/sizeoverflow.cpp
./test/swap.cpp
./test/product_mmtr.cpp
./test/stdvector_overload.cpp

```

./test/product_symm.cpp
./test/sparse_block.cpp
./test/eigen2support.cpp
./test/upperbidiagonalization.cpp
./test/numext.cpp
./test/adjoint.cpp
./test/AnnoyingScalar.h
./test/mpl2only.cpp
./test/stddeque.cpp
./test/householder.cpp
./test/product_small.cpp
./test/product_syrk.cpp
./test/inplace_decomposition.cpp
./test/vectorwiseop.cpp
./test/meta.cpp
./test/stdvector.cpp
./test/sparseLM.cpp
./test/diagonalmatrices.cpp
./test/stdlist_overload.cpp
./test/block.cpp
./test/cholmod_support.cpp
./test/basicstuff.cpp
./test/triangular.cpp
./test/product.h
./test/vectorization_logic.cpp
./test/dontalign.cpp
./test/first_aligned.cpp
./test/mapped_matrix.cpp
./test/umfpack_support.cpp
./test/product_selfadjoint.cpp
./test/smallvectors.cpp
./test/corners.cpp
./test/product_trsolve.cpp
./test/determinant.cpp
./test/stdlist.cpp
./test/unalignedcount.cpp
./test/qr.cpp
./test/svd_common.h
./test/ref.cpp
./test/symbolic_index.cpp
./test/geo_transformations.cpp
./test/geo_eulerangles.cpp
./test/eigensolver_selfadjoint.cpp
./test/stddeque_overload.cpp
./test/jacobisvd.cpp
./test/nullary.cpp
./test/inverse.cpp
./test/integer_types.cpp
./test/metis_support.cpp
./test/exceptions.cpp
./test/packetmath.cpp
./test/schur_complex.cpp
./test/type_alias.cpp
./test/unalignedassert.cpp
./test/geo_quaternion.cpp
./test/lu.cpp
./test/qr_fullpivoting.cpp
./test/denseLM.cpp
./test/linearstructure.cpp
./test/rand.cpp
./test/conservative_resize.cpp
./test/eigensolver_generalized_real.cpp
./test/pastix_support.cpp
./test/sparse_solver.h
./test/num_dimensions.cpp
./test/simplicial_cholesky.cpp
./test/hessenberg.cpp
./test/array_reverse.cpp

```

```

./test/special_numbers.cpp
./test/array_for_matrix.cpp
./test/product_large.cpp
./test/resize.cpp
./test/sparse_solvers.cpp
./test/selfadjoint.cpp
./test/schur_real.cpp
./test/sparse_basic.cpp
./test/conjugate_gradient.cpp
./test/real_qz.cpp
./test/bandmatrix.cpp
./test/dense_storage.cpp
./test/permutationmatrices.cpp
./test/array_cwise.cpp
./test/qr_colpivoting.cpp
./test/array_replicate.cpp
./test/rvalue_types.cpp
./test/stable_norm.cpp
./test/geo_homogeneous.cpp
./test/main.h
./test/eigensolver_complex.cpp
./test/product_trmm.cpp
./test/bicgstab.cpp
./test/redux.cpp
./test/klu_support.cpp
./test/geo_alignedbox.cpp
./test/is_same_dense.cpp
./test/sparse_permutations.cpp
./test/sparse_vector.cpp
./test/diagonal.cpp
./test/sparse.h
./test/mapstride.cpp
./test/visitor.cpp
./test/geo_hyperplane.cpp
./test/bdcsvd.cpp
./test/product_trmv.cpp
./test/nestbyvalue.cpp
./test/array_of_string.cpp
./test/superlu_support.cpp
./test/sizeof.cpp
./test/boostmultiprec.cpp
./test/commainitializer.cpp
./test/constructor.cpp
./test/mixingtypes.cpp
./test/miscmatrices.cpp
./test/mapstaticmethods.cpp
./test/product_notemporary.cpp
./test/initializer_list_construction.cpp
./test/incomplete_cholesky.cpp
./test/geo_parametrizedline.cpp
./test/indexed_view.cpp
./test/qtvector.cpp
./test/sparselu.cpp
./test/sparse_product.cpp
./test/dynalloc.cpp
./test/fastmath.cpp
./test/prec_inverse_4x4.cpp
./test/umeyama.cpp
./test/reshape.cpp
./test/product_extra.cpp
./test/jacobi.cpp
./test/sparse_ref.cpp
./test/nomalloc.cpp
./test/spqr_support.cpp
./test/lscg.cpp
./test/cholesky.cpp
./test/eigensolver_generic.cpp
./test/geo_orthomethods.cpp

```

```

./test/svd_fill.h
./test/stl_iterators.cpp
./Eigen/src/MetisSupport/MetisSupport.h
./Eigen/src/CholmodSupport/CholmodSupport.h
./Eigen/src/QR/CompleteOrthogonalDecomposition.h
./Eigen/src/QR/FullPivHouseholderQR.h
./Eigen/src/QR/HouseholderQR.h
./Eigen/src/QR/ColPivHouseholderQR.h
./Eigen/src/plugins/CommonCwiseUnaryOps.h
./Eigen/src/plugins/BlockMethods.h
./Eigen/src/plugins/CommonCwiseBinaryOps.h
./Eigen/src/plugins/MatrixCwiseUnaryOps.h
./Eigen/src/plugins/IndexedViewMethods.h
./Eigen/src/plugins/MatrixCwiseBinaryOps.h
./Eigen/src/SVD/UpperBidiagonalization.h
./Eigen/src/SVD/SVDBase.h
./Eigen/src/SVD/BDCSVD.h
./Eigen/src/SVD/JacobiSVD.h
./Eigen/src/SparseLU/SparseLU_relax_snode.h
./Eigen/src/SparseLU/SparseLU_column_dfs.h
./Eigen/src/SparseLU/SparseLU_SupernodalMatrix.h
./Eigen/src/SparseLU/SparseLU_pivotL.h
./Eigen/src/SparseLU/SparseLU.h
./Eigen/src/SparseLU/SparseLU_pruneL.h
./Eigen/src/SparseLU/SparseLU_copy_to_ucol.h
./Eigen/src/SparseLU/SparseLU_heap_relax_snode.h
./Eigen/src/SparseLU/SparseLU_kernel_bmod.h
./Eigen/src/SparseLU/SparseLU_panel_dfs.h
./Eigen/src/SparseLU/SparseLU_panel_bmod.h
./Eigen/src/SparseLU/SparseLU_Structs.h
./Eigen/src/SparseLU/SparseLUImpl.h
./Eigen/src/SparseLU/SparseLU_Memory.h
./Eigen/src/SparseLU/SparseLU_column_bmod.h
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./Eigen/src/OrderingMethods/Ordering.h
./Eigen/src/OrderingMethods/Amd.h
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./Eigen/src/Geometry/Umeyama.h
./Eigen/src/Geometry/Transform.h
./Eigen/src/Geometry/OrthoMethods.h
./Eigen/src/Geometry/Hyperplane.h
./Eigen/src/Geometry/Homogeneous.h
./Eigen/src/Geometry/RotationBase.h
./Eigen/src/Geometry/EulerAngles.h
./Eigen/src/Geometry/Translation.h
./Eigen/src/Geometry/Rotation2D.h
./Eigen/src/Geometry/Scaling.h
./Eigen/src/Geometry/AlignedBox.h
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./Eigen/src/Geometry/Quaternion.h
./Eigen/src/Geometry/AngleAxis.h
./Eigen/src/Geometry/arch/Geometry_SSE.h
./Eigen/src/KLUSupport/KLUSupport.h
./Eigen/src/misc/Kernel.h
./Eigen/src/misc/RealSvd2x2.h
./Eigen/src/misc/Image.h
./Eigen/src/StlSupport/details.h
./Eigen/src/StlSupport/StdList.h
./Eigen/src/StlSupport/StdDeque.h
./Eigen/src/StlSupport/StdVector.h
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./Eigen/src/Householder/Householder.h
./Eigen/src/Householder/HouseholderSequence.h
./Eigen/src/Householder/BlockHouseholder.h
./Eigen/src/Eigenvalues/SelfAdjointEigenSolver.h

```



```

./Eigen/src/Eigenvalues/EigenSolver.h
./Eigen/src/Eigenvalues/GeneralizedEigenSolver.h
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./Eigen/src/SPQRSupport/SuiteSparseQRSupport.h
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./Eigen/src/LU/InverseImpl.h
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./Eigen/src/LU/arch/Inverse_SSE.h
./Eigen/src/LU/FullPivLU.h
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./Eigen/src/Core/Assign.h
./Eigen/src/Core/Dot.h
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./Eigen/src/Core/util/SymbolicIndex.h
./Eigen/src/Core/util/BlasUtil.h
./Eigen/src/Core/util/Constants.h
./Eigen/src/Core/util/IntegralConstant.h
./Eigen/src/Core/util/ReshapedHelper.h
./Eigen/src/Core/util/StaticAssert.h
./Eigen/src/Core/util/IndexedViewHelper.h
./Eigen/src/Core/util/ConfigureVectorization.h
./Eigen/src/Core/util/ForwardDeclarations.h
./Eigen/src/Core/util/Meta.h
./Eigen/src/Core/util/XprHelper.h
./Eigen/src/Core/util/Macros.h
./Eigen/src/Core/util/Memory.h
./Eigen/src/Core/Product.h
./Eigen/src/Core/Replicate.h
./Eigen/src/Core/ArrayBase.h
./Eigen/src/Core/functors/NullaryFunctors.h
./Eigen/src/Core/functors/StlFunctors.h
./Eigen/src/Core/functors/AssignmentFunctors.h
./Eigen/src/Core/functors/UnaryFunctors.h
./Eigen/src/Core/functors/TernaryFunctors.h
./Eigen/src/Core/functors/BinaryFunctors.h
./Eigen/src/Core/Redux.h
./Eigen/src/Core/EigenBase.h
./Eigen/src/Core/SolverBase.h
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./Eigen/src/Core/Block.h
./Eigen/src/Core/SolveTriangular.h

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./Eigen/src/Core/MathFunctionsImpl.h
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./Eigen/src/Core/products/GeneralMatrixVector.h
./Eigen/src/Core/products/SelfadjointMatrixVector.h
./Eigen/src/Core/products/GeneralBlockPanelKernel.h
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./Eigen/src/Core/products/SelfadjointMatrixMatrix.h
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./Eigen/src/Core/products/TriangularMatrixVector.h
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1. Definitions

1.1. "Contributor"

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Files: config/install-sh

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```
=====
rust/utf8.rs
=====
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tif_hash_set.c

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test_ifd_loop_detection.c

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== windows_driver_kit

Microsoft Enterprise Windows Driver Kit
Windows Software Developer Kit for Windows 10
Windows Driver Kit for Windows 10
Build Tools for Visual Studio 2017

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2.131 simutf unicode transcoder (131)

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2.132 Simple Homomorphic Encryption Library with Lattices (132)

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2.133 simplejson (133)

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2.139 TensorFlow Lite Support (139)

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December 9, 2016
Dagger:

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2.146 URL Pattern Library (146)

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2.147 url_parse (147)

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2.148 v4l-utils (148)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data

structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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2.149 V8 fork of fdlibm (149)

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or

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2.151 Wicked Good XPath (151)

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2.154 x11proto (154)

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2.155 xdg-user-dirs (155)

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2.156 xnu (156)

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2.157 XZ Utils (157)

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```
sh build-aux/license-check.sh -v
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2.158 zlib (158)

version 1.2.12, March 27th, 2022

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2.159 zod (159)

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2.179 ICU (179)

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2.182 bzip2-1.0.6 (182)

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