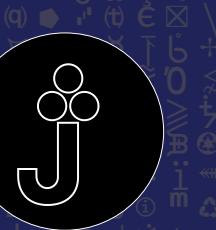


JuliaMono

<https://github.com/cormullion/juliamono>



JuliaMono Light

abcdefghijklmnoprstuvwxyz 12345
ABCDEFGHIJKLMNOPQRSTUVWXYZ 67890
{ }[]()<>\$*-+=/#_-%^@&|~?'"`!,.;:

JuliaMono Regular

abcdefghijklmnoprstuvwxyz 12345
ABCDEFGHIJKLMNOPQRSTUVWXYZ 67890
{ }[]()<>\$*-+=/#_-%^@&|~?'"`!,.;:

JuliaMono Medium

abcdefghijklmnoprstuvwxyz 12345
ABCDEFGHIJKLMNOPQRSTUVWXYZ 67890
{ }[]()<>\$*-+=/#_-%^@&|~?'"`!,.;:

JuliaMono Bold

abcdefghijklmnoprstuvwxyz 12345
ABCDEFGHIJKLMNOPQRSTUVWXYZ 67890
{ }[]()<>\$*-+=/#_-%^@&|~?'"`!,.;:

JuliaMono ExtraBold

abcdefghijklmnoprstuvwxyz 12345
ABCDEFGHIJKLMNOPQRSTUVWXYZ 67890
{ }[]()<>\$*-+=/#_-%^@&|~?'"`!,.;:

JuliaMono Black

abcdefghijklmnoprstuvwxyz 12345
ABCDEFGHIJKLMNOPQRSTUVWXYZ 67890
{ }[]()<>\$*-+=/#_-%^@&|~?'"`!,.;:

```
function _nloops(N::Int, itersym::Symbol, rangeexpr::Expr, args::Expr...)
    if rangeexpr.head !== :→
        throw(ArgumentError("second argument must be an anonymous function expression to compute the range"))
    end
    if !(1 <= length(args) <= 3)
        throw(ArgumentError("number of arguments must be 1 ≤ length(args) ≤ 3, got $args"))
    end
    body = args[end]
    ex = Expr(:escape, body)
    for dim = 1:N
        itervar = inlineanonymous(itersym, dim)
        rng = inlineanonymous(rangeexpr, dim)
        preexpr = length(args) > 1 ? inlineanonymous(args[1], dim) : :(:(nothing))
        postexpr = length(args) > 2 ? inlineanonymous(args[2], dim) : :(:(nothing))
        ex = quote
            for ${esc(itervar)} = ${esc(rng)}
                ${esc(preexpr)}
                $ex
                ${esc(postexpr)}
            end
        end
    end
    ex
end

function _nloops(N::Int, itersym::Symbol, rangeexpr::Expr, args::Expr...)
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                $ex
                ${esc(postexpr)}
            end
        end
    end
    ex
end
```


Ancient Greek Ἀδμηθ', ὅρὅς γὰρ τὰμα πράγμαθ' ὡς ἔχει, λέξαι θέλω σοι πρὸν θανεῖν ἀ βούλομαι.

Bulgarian Я, пазачът Валъо уж бди, а скришом хапва кюфтенца зад щайгите.

Catalan «Dóna amor que seràs feliç!». Això, il·lus company geniüt, ja és un lluït rëtol blavís d'onze kWh.

Czech Zvlášť zákeřný učeň s dholičky běží podél zóny úlů

Danish Quizdeltagerne spiste jordbær medfløde, mens cirkusklovnen Walther spillede på xylofon.

English Sphinx of black quartz, judge my vow.

Estonian Põdur Zagrebi tšellomängjaja-fölljetonist Cigo külmetas kehvas garaažis

Finnish Charles Darwin jammaili Åken hevixylofonilla Qatarin yöpub Zeligissä.

French Voix ambiguë d'un cœur qui au zéphyr préfère les jattes de kiwi.

German Victor jagt zwölf Boxkämpfer quer über den großen Sylter Deich.

Greek Ταχίστη αλώπηξ βαφής ψημένη γη, δρασκελίζει υπέρ νωθρού κυνός.

Guarani H̄īlandiagua kuñanguéra oho petēī sa'yuju ypa'üme Gavõme ombo' e hāguia ingyleñe' ē mitãnguérare ne'ëndy' ÿ.

Hungarian Jó foxim és don Quijote húszwattos lámpánál ülve egy pár búvörs cipőt készít.

IPA [gʷʃ?.nas.doŋ.kʰlja]
[jan.nɸiwo.çiuɛn.ɣwa]

Icelandic Kæmi ný öxi hér, ykist þjófum nú bæði víl og ádrepa.

Irish Ćuaig bé mórsáć le dlúitspád fíorfinn trí hata mo dea-þorcáin big.

Latvian Mulķa hipji mēģina brīvi nogaršot celofāna žņaudzējūsku.

Lithuanian Įlinkdama fechtuotojo špaga sublykčiojusi pragręžė apvalų arbūzą.

Macedonian Сидарски пејзаж: шугав билmez со чудење џвака ќофте и кељ на туѓ цех.

Norwegian Jeg begynte å fortære en sandwich mens jeg kjørte taxi på vei til quiz

Polish Pchnąć w tę łódź jeża lub ośm skrzyń fig.

Portuguese Luís argüia à Júlia que «brações, fé, chá, óxido, pôr, zângão» eram palavras do português.

Romanian Înjurând pițigăiat, zoofobul comandă vexat whisky și tequila.

Russian Широкая электрификация южных губерний даст мощный толчок подъёму сельского хозяйства.

Scottish Mus d'fhàg Cèit-Ùna ròp ì leob.

Serbian Ајшо, лепото и чежњо, за љубав срца мога дођи у Хаџиће на кафу.

Spanish Benjamín pidió una bebida de kiwi y fresa; Noé, sin vergüenza, la más champaña del menú.

Swedish Flygande bäckasiner söka hwila på mjuka tuvor.

Turkish Pijamalı hasta yağız şoföre çabucak güvendi.

Ukrainian Чуєш іх, доцю, га? Кумедна ж ти, прощайся без ґольфів!

yotta	Y	10^{24}	1 000 000 000 000 000 000 000 000	septillion
zetta	Z	10^{21}	1 000 000 000 000 000 000 000 000	sexillion
exa	E	10^{18}	1 000 000 000 000 000 000 000 000	quintillion
peta	P	10^{15}	1 000 000 000 000 000 000 000 000	quadrillion
tera	T	10^{12}	1 000 000 000 000 000	trillion
giga	G	10^9	1 000 000 000	billion
mega	M	10^6	1 000 000	million
kilo	k	10^3	1 000	thousand
hecto	h	10^2	100	hundred
deca	da	10^1	10	ten
deci	d	10^{-1}	0.1	tenth
centi	c	10^{-2}	0.01	hundredth
milli	m	10^{-3}	0.001	thousandth
micro	μ	10^{-6}	0.000 001	millionth
nano	n	10^{-9}	0.000 000 001	billionth
pico	p	10^{-12}	0.000 000 000 001	trillionth
femto	f	10^{-15}	0.000 000 000 000 001	quadrillionth
atto	a	10^{-18}	0.000 000 000 000 000 001	quintillionth
zepto	z	10^{-21}	0.000 000 000 000 000 000 001	sextillionth
yocto	y	10^{-24}	0.000 000 000 000 000 000 000 001	septillionth
classical electron radius	r_e		$2.817940285 \times 10^{-15}$	
Compton wavelength of the electron	λ_c		$2.426310215 \times 10^{-12}$	
reduced Compton wavelength of the electron	$\bar{\lambda}_c$		$3.8615926764 \times 10^{-13}$	
Bohr radius of the hydrogen atom	a_0		$5.291772083 \times 10^{-11}$	
natural units based on the electronvolt	1 eV^{-1}		1.97×10^{-7}	
reduced wavelength of hydrogen radiation	$1/R_\infty$		$9.112670505509 \times 10^{-8}$	
Planck length	ℓ_p		1.616199×10^{-35}	
Stoney unit of length	l_s		1.381×10^{-35}	
quantum chromodynamics (QCD) unit of length	l_{qcd}		2.103×10^{-16}	

	mm		inches		points	
	w	h	w	h	w	h
A0	841	1189	33.11	46.81	2384	3370
A1	594	841	23.39	33.11	1684	2384
A2	420	594	16.54	23.39	1190	1684
A3	297	420	11.69	16.54	842	1190
A4	210	297	8.27	11.69	595	842
A5	148	210	5.83	8.27	420	595
A6	105	148	4.13	5.83	298	420
A7	74	105	2.91	4.13	210	298
A8	52	74	2.05	2.91	148	210
Letter (ANSI A)	215.9	279.4	8.5	11	612	792
Legal	215.9	355.6	8.5	14	612	1008
Ledger (ANSI B)	279.4	431.8	11	17	792	1224
Tabloid (ANSI B)	431.8	279.4	17	11	1224	792
Executive	184.1	266.7	7.25	10.55	522	756
ANSI C	559	432	22	17	1584	1224
ANSI D	864	559	34	22	2448	1584
ANSI E	1118	864	44	34	3168	2448
Foolscap	336	419	13.25	16.5	954	1188
Small Post	368	469	14.5	18.5	1044	1332
Sheet and 1/3 cap	336	588	13.25	22	954	1584
Sheet and 1/2 cap	336	628	13.25	24.75	954	1782
Demy	394	507	15.5	20	1116	1440
Large Post	419	533	16.5	21	1188	1512
Small medium	444	558	17.5	22	1260	1584
Medium	457	584	18	23	1296	1656
Small Royal	482	609	19	24	1368	1728
Royal	507	634	20	25	1440	1800
Imperial	559	761	22	30	1584	2160

• ntuple.jl ×

julia > base > • ntuple.jl > ...

44

```
45 @inline function ntuple(f::F, ::Val{N}) where {F,N}
46     N::Int
47     (N >= 0) || throw(ArgumentError(string("tuple length should be
48     if @generated
49         quote
50             @nexprs $N i → t_i = f(i)
51             @ncall $N tuple t
52         end
53     else
54         Tuple(f(i) for i = 1:N)
55     end
56 end
57
58 @inline function fill_to_length(t::Tuple, val, ::Val{_N}) where {_N}
59     M = length(t)
60     N = _N::Int
61     M > N && throw(ArgumentError("input tuple of length $M, requested
62     if @generated
```

```
@inline function _foldoneto(op, acc, ::Val{N}) where N
    @assert N::Integer > 0
    if @generated
        quote
            acc_0 = acc
            Base.Cartesian.@nexprs $N i ->
                acc_{i} = op(acc_{i-1},
            return $(Symbol(:acc_, N)))
        end
    else
        quote
            for i in 1:N
                acc = op(acc, i)
            end
        end
    end
end
```

```
showerror seek @cmdm .  
showable iterate flush acotd @la.  
c enumerate code_lowered symlink un.  
oneunit valtype Inf16 DimensionMismatch Str.  
te \ SubstitutionString secd ≡ @r_str BitSet Co  
ay findlast AbstractDict fieldoffset ≠ reset run log  
started simpi Cchar similar popat! tempdir ismissing Un  
ing ndims symdiff unsafe_read foreach nextprod acosd Rou  
in isreal unsafe_write typeinteract chown ischardev upper  
axintfloat im isinteger redirect_stdin Iterators schedule Dic  
prevpow muladd digits pop! @timed walkdir IdDict ↳ partialsort!  
atrix abs2 Clonglong Irrational unescape_string chomp invperm gen  
gensym eof count_ones big @threadcall replace! display gcd @int12  
to supertype @nospecialize \ CartesianIndex acot Cshort checkindex  
medwait sign DenseVector isassigned : @_MODULE_ frexp isabstractly  
o GC mapfoldr ProcessFailedException Cwchart LinearIndices IndexSty  
headline step! fieldcount empty! eachcol kron mtime isinteractive sizeh  
f cosh bitrotate findfirst hash unmark readlines stdio acos delete! i  
ctime haskey Inf64 contains isinf IOStream invpermute! falses count!  
ing filter! RoundFromZero BigInt v hex2bytes empty IndexLinear cumsum  
gdir issorted asynccmap! atan startswith @ccall isequal rotr90 BitArr  
isinvalid replace Cdouble angle issetequal lock isreadonly rotl90 >: l  
oret wait sincosd fieldtypes exp promote_rule fill! findprev any Matrix  
push! @b_st isreadable cd intersect! seekstart adjoint ⊑ titlecas  
ndency AbstractVector showerror seek @cmd propertynames splitdir is  
Sort indexin NaN showable iterate flush acotd @label ENV nameof Pip  
bounds rpad cosc enumerate code_lowered symlink union atexit isur  
umerator oneunit valtype Inf16 DimensionMismatch StridedVector  
truncate \ SubstitutionString secd ≡ @r_str BitSet Composite  
Display findlast AbstractDict fieldoffset ≠ reset run log1p h  
started simpi Cchar similar popat! tempdir ismissing Un  
g ndims symdiff unsafe_read foreach nextprod acosd Rou  
real unsafe_write typeinteract chown ischardev upper  
t im isinteger redirect_stdin Iterators sched  
ladd digits pop! @timed walkdir IdDict ↳ partialsort!  
long Irrational unescape_string ch  
nes big @threadcall replace!  
i ↳ \ CartesianIndex
```

```
    _ `frexp isabstract`  
    _ LinearIndices IndexStyle p  
    _ mtime isinteractive sizehint! spc  
    _ readlines stdout acos delete! isone NaN16  
    _ Stream inpermute! falses count! complex isabs  
    hex2bytes empty IndexLinear cumsum ComplexF64 ≈ 1  
    _ tartswith @ccall isequal rotr90 BitArray asynemap mapf  
    _ ssetequal lock isreadonly rotl90 >: lstrip @html_str pi  
    _ xp promote_rule fill! findprev any Matrix CartesianIndices =  
    intersect! seekstart adjoint ⊑ titlecase chop islowercase @_  
    error seek @cmd propertynames splitdir ispath denominator @gene  
    iterate flush acotd @label ENV nameof Pipe Cstring tanh deg2rad c  
    _ code_lowered symlink union atexit isuppercase ExponentialBackOff  
    Inf16 DimensionMismatch StridedVector Libc circshift asecd VecOr  
    onString seed = @r_str BitSet CompositeException RoundNearestTiesUp  
    onDict fieldoffset & reset run log1p broadcast! filter foldl ifelse  
    similar popat! tempdir ismissing UnitRange min rem2pi partialsort  
    safe_read foreach nextprod acosd RoundNearest sinc Cintmax_t signific  
    typeintercept chown ischardev uppercasefirst ▷ sortperm SubString  
    redirect_stdin Iterators schedule Dict accumulate ComplexF32 insert  
    pop! @timed walkdir IdDict ⊓ partialsort! skip C_NULL @raw_str cumsum  
    ational unescape_string chomp getindex ≤ VersionNumber isdi:  
    g @threecall replace! display gcd @int128_str bytes2hex withenv ap  
    \ CartesianIndex acot Cshort checkindex issubnormal @_DIR_ join  
    isassigned : @_MODULE_ frexp isabstracttype powermod fd normpath  
    edException Cwchart_1 LinearIndices IndexStyle pipeline transpose p  
    ty! eachcol kron mtime isinteractive sizehint! splitdrive TaskFa  
    sh unmark readlines stdout acos delete! isone NaN16 Cint Strid  
    isinf IOStream inpermute! falses count! complex isabspath o  
    'nt y hex2bytes empty IndexLinear cumsum ComplexF64 ≈ filemo  
    tartswith @ccall isequal rotr90 BitArray asynemap mapf  
    _ ssetequal lock isreadonly rotl90 >: lstrip @html_str pi  
    _ promote_rule fill! findprev any Matrix CartesianIndices =  
    _ !t seekstart adjoint ⊑ titlecase chop islowercase @_  
    @cmd propertynames splitdir ispath denominator  
    acotd @label ENV nameof Pipe Cstring  
    _ link union atexit isuppercase  
    _ h StridedVector !"
```

```
...sect! seekstart adjoint
    .ror seek @cmd propertynames spec
    iterate code_lowered flush acotd @label ENV nameo,
    ...erate code_lowered symlink union atexit is.
valtype Inf16 DimensionMismatch StridedVector L_
stitutionString seed = @r_str BitSet CompositeExc,
AbstractDict fieldoffset ≠ reset run logip broadcast
Cchar similar popat! tempdir ismissing UnitRange mi
iff unsafe_read foreach nextprod acosd RoundNearest s_
e_write typeintersect chown ischardev uppercasefirst D_
integer redirect_stdin Iterators schedule Dict accumula
gits pop! @timed walkdir IdDict ↳ partialsort! skip C_NU.
ong Irrational unescape_string.chomp invperm getindex ≤ Ve
big @threadcall replace! display gcd @int128_str bytes
cialize \ CartesianIndex acot Cshort checkindex issubnorma
vector isassigned : @_MODULE_ frexp isabstracttype powerme
ssFailedException Cwchar_t LinearIndices IndexStyle pipeline
contains isinf IOStream invpermute! falses count! complex i
nZero BigInt v hex2bytes empty IndexLinear cumsum ComplexF6
rmap! atan startswith @ccall isEqual rotr90 BitArray asyncm
angle isseteqatlock isreadonly rotl90 >: lstrip @ht
fieldtypes exp promote_rule fill! findprev any Matrix Cartesian
able cd intersect! seekstart adjoint ↳ titlecase chop is
or showerror seek @cmd propertynames splitdir ispath den
owable iterate flush acotd @label ENV nameof Pipe Cstring
enumerate code_lowered symlink union atexit isuppercase
valtype Inf16 DimensionMismatch StridedVector Libc cir
stitutionString seed = @r_str BitSet CompositeException
AbstractDict fieldoffset ≠ reset run logip broadcast
Cchar similar popat! tempdir ismissing UnitRange
iff unsafe_read foreach nextprod acosd RoundNear
write typeintersect chown ischardev uppercasef
er redirect_stdin Iterators schedule Dict
! @timed walkdir IdDict ↳ partialsort!
al unescape_string.chomp +
    ! replace! d
```

The title of the painting, which is known in English as *Mona Lisa*, comes from a description by Renaissance art historian Giorgio Vasari, who wrote "Leonardo undertook to paint, for Francesco del Giocondo, the portrait of *Mona Lisa*, his wife." *Mona* in Italian is a polite form of address originating as *ma donna* - similar to *Ma'am*, Madam, or my lady in English. This became *madonna*, and its contraction *mona*. The title of the painting, though traditionally spelled *Mona* (as used by Vasari), is also commonly spelled in modern Italian as *Monna Lisa* (*mona* being a vulgarity in some Italian dialects), but this is rare in English. Vasari's account of the *Mona Lisa* comes from his biography of Leonardo published in 1550, 31 years after the artist's death. It has long been the best-known source of information on the provenance of the work and identity of the sitter. Leonardo's assistant Salai, at his death in 1524, owned a portrait which in his personal papers was named *la Gioconda*, a painting bequeathed to him by Leonardo. That Leonardo painted such a work, and its date, were confirmed in 2005 when a scholar at Heidelberg University discovered a marginal note in a 1477 printing of a volume by ancient Roman philosopher Cicero. Dated October 1503, the note was written by Leonardo's contemporary Agostino Vespucci. This note likens Leonardo to renowned Greek painter Apelles, who is mentioned in the text, and states that Leonardo was at that time working on a painting of *Lisa del Giocondo*. In response to the announcement of the discovery of this document, Vincent Delieuvin, the Louvre representative, stated "Leonardo da Vinci was painting, in 1503, the portrait of a Florentine lady by the name of *Lisa del Giocondo*. About this we are now certain. Unfortunately, we cannot be absolutely certain that this portrait of *Lisa del Giocondo* is the painting of the Louvre." The model, *Lisa del Giocondo*, was a member of the Gherardini family of Florence and Tuscany, and the wife of wealthy Florentine silk merchant Francesco del Giocondo. The painting is thought to have been commissioned for their new home, and to celebrate the birth of their second son, Andrea. The Italian name for the painting, *La Gioconda*, means 'jocund' ('happy' or 'joyful') or, literally, 'the jocund one', a pun on the feminine form of *Lisa*'s married name, *Giocondo*. In French, the title *La Joconde* has the same meaning. Before that discovery, scholars had developed several alternative views as to the subject of the painting. Some argued that *Lisa del Giocondo* was the subject of a different portrait, identifying at least four other paintings as the *Mona Lisa* referred to by Vasari. Several other women have been proposed as the subject of the painting. Isabella of Aragon, Cecilia Gallerani, Costanza d'Avalos, Duchess of Francavilla, Isabella d'Este, Pacifica Brandano or Brandino, Isabella Gualanda, Caterina Sforza, Bianca Giovanna Sforza-even Salai and Leonardo himself-are all among the list of posited models portrayed in the painting. The consensus of art historians in the 21st century maintains the long-held traditional opinion that the painting depicts *Lisa del Giocondo*. History: Leonardo da Vinci had begun working on a portrait of *Lisa del Giocondo*, the model of the *Mona Lisa*, by October 1503. It is believed by some that the *Mona Lisa* was begun in 1503 or 1504 in Florence. Although the Louvre states that it was "doubtless painted between 1503 and 1506", art historian Martin Kemp says that there are some difficulties in confirming the dates with certainty. In addition, many Leonardo experts, such as Carlo Pedretti and Alessandro Vezzosi, are of the opinion that the painting is characteristic of Leonardo's style in the final years of his life, post-1513. Other academics argue that, given the historical documentation, Leonardo would have painted the work

from 1513. According to Vasari, "after he had lingered over it four years, left it unfinished". In 1516, Leonardo was invited by King Francis I to work at the Clos Lucé near the Château d'Amboise; it is believed that he took the *Mona Lisa* with him and continued to work on it after he moved to France. Art historian Carmen C. Bambach has concluded that Leonardo probably continued refining the work until 1516 or 1517. Leonardo's right hand was paralytic circa 1517, which

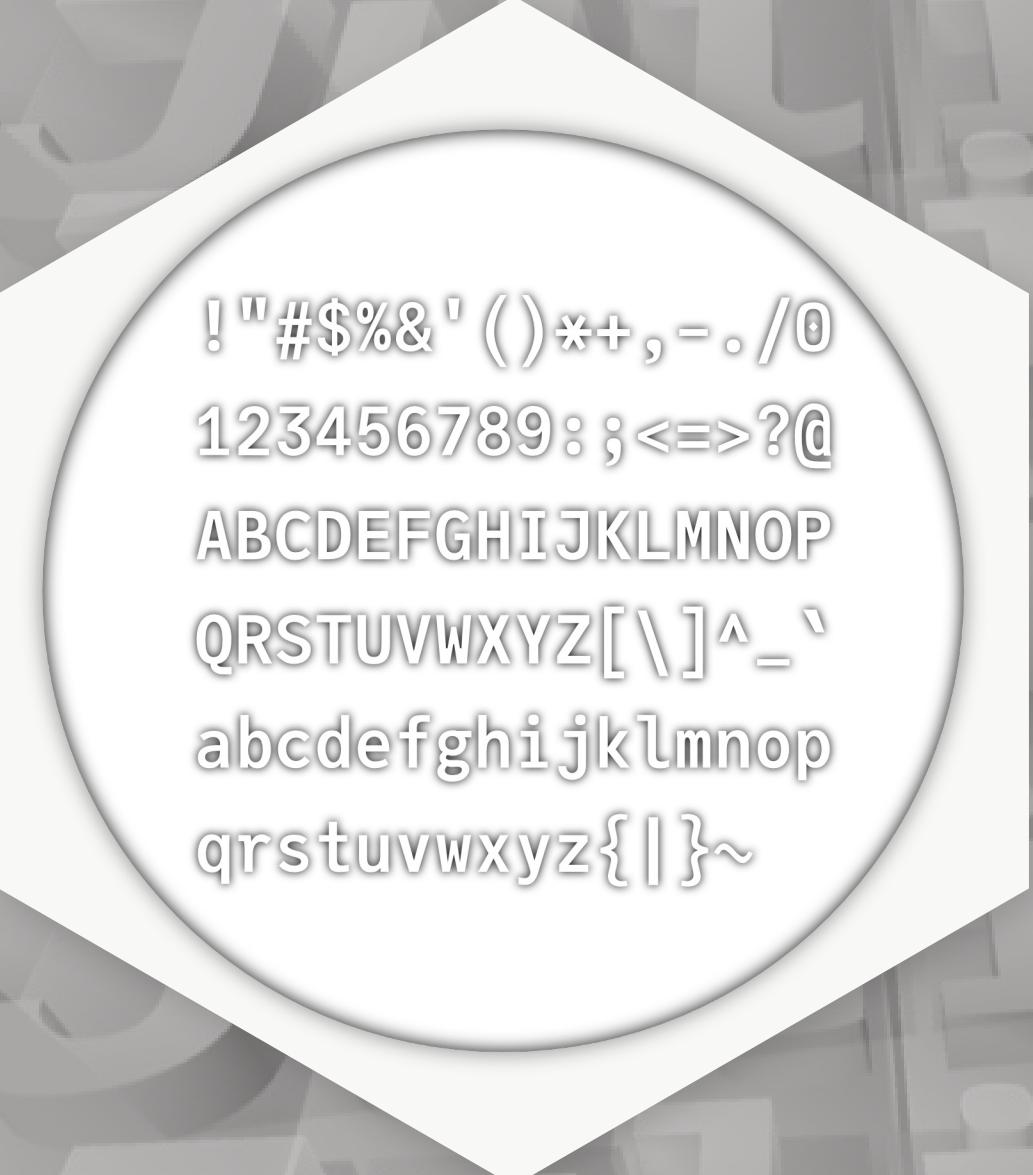
In view of this, Vincent Delieuvin, curator of 16th-century Italian painting at the Louvre, states that the sketch and these other copies must have been inspired by another version, while Zöllner states that the sketch may be after another Leonardo portrait of the same subject. The record of an October 1517 visit by Louis d'Aragon states that the *Mona Lisa* was executed for the deceased Giuliano de' Medici, Leonardo's steward at the Belvedere Palace between 1513 and 1516-

assistant Salai's possession until his death in 1524. The second, commissioned by Giuliano de' Medici circa 1513, would have been sold by Salai to Francis I in 1518 and is the one in the Louvre today. Others believe that there was only one true *Mona Lisa*, but are divided as to the two aforementioned fates. At some point in the 16th century, a varnish was applied to the painting. It was kept at the Palace of Fontainebleau until Louis XIV moved it to the Palace of Versailles, where it remained until the French Revolution. In 1797, it was put on to permanent display at the Louvre. In the early 21st century, French scientist Pascal Cotte hypothesized a hidden portrait underneath the surface of the painting, circumstantial evidence for which was produced using reflective light technology. The underlying portrait appears to be of a model looking to the side, but lacks the flanking columns drawn by Raphael. Having been given access to the painting by the Louvre in 2004, Cotte spent ten years studying the painting with layer-amplification methods. However, the alleged portrait does not fit with historical descriptions of the painting: both Vasari and Gian Paolo Lomazzo describe the subject as smiling, unlike the subject in Cotte's portrait. Cotte admits that his reconstitution had been carried out only in support of his hypotheses and should not be considered as objective proof of an underlying portrait. Refuge, theft and vandalism After the French Revolution, the painting was moved to the Louvre, but spent a brief period in the bedroom of Napoleon (d. 1821) in the Tuileries Palace. The *Mona Lisa* was not widely known outside the art world, but in the 1860s, a portion of the French intelligentsia began to hail it as a masterpiece of Renaissance painting. During the Franco-Prussian War (1870-1871), the painting was moved from the Louvre to the Brest Arsenal. Vacant wall in the Louvre's Salon Carré after the painting was stolen in 1911 "La Joconde est Retrouvée" ("Mona Lisa is Found"), Le Petit Parisien, 13 December 1911 In 1911, the painting was still not popular among the lay-public. On 21 August 1911, the painting was stolen from the Louvre. The missing painting was first noticed the next day by painter Louis Béroud. After some confusion as to whether the painting was being photographed somewhere, the Louvre was closed for a week for investigation. French poet Guillaume Apollinaire came under suspicion and was arrested and imprisoned. Apollinaire implicated his friend Pablo Picasso, who was brought in for questioning. Both were later exonerated. The real culprit was Louvre employee Vincenzo Peruggia, who had helped construct the painting's glass case. He carried out the theft by entering the building during regular hours, hiding in a broom closet, and walking out with the painting hidden under his coat after the museum had closed. Peruggia was an Italian patriot who believed that Leonardo's painting should have been returned to an Italian museum. Peruggia may have been motivated by an associate whose copies of the original would significantly rise in value after the painting's theft. After having kept the *Mona Lisa* in his apartment for two years, Peruggia grew impatient and was caught when he attempted to sell it to Giovanni Poggi, director of the Uffizi Gallery in Florence. It was exhibited in the Uffizi Gallery for over two weeks and returned to the Louvre on 4 January 1914. Peruggia served six months in prison for the crime and was hailed for his patriotism in Italy. A year after the theft, Saturday Evening Post journalist Karl Decker met an alleged accomplice named Eduardo de Valfierno, who claimed to have masterminded the theft. Forger Yves Chaudron was to have created ... [text by Wikipedia contributors. "Mona Lisa." Wikipedia, The Free Encyclopedia. Wikipedia, The Free Encyclopedia, 4 Jul. 2020. Web. 22 Jul. 2020.]

may indicate why he left the *Mona Lisa* unfinished. Circa 1505, Raphael executed a pen-and-ink sketch, in which the columns flanking the subject are more apparent. Experts universally agree that it is based on Leonardo's portrait. Other later copies of the *Mona Lisa*, such as those in the National Museum of Art, Architecture and Design and The Walters Art Museum, also display large flanking columns. As a result, it was thought that the *Mona Lisa* had been trimmed. However, by 1993, Frank Zöllner observed that the painting surface had never been trimmed; this was confirmed through a series of tests in 2004.

but this was likely an error. According to Vasari, the painting was created for the model's husband, Francesco del Giocondo. A number of experts have argued that Leonardo made two versions (because of the uncertainty concerning its dating and commissioner, as well as its fate following Leonardo's death in 1519, and the difference of details in Raphael's sketch-which may be explained by the possibility that he made the sketch from memory). The hypothetical first portrait, displaying prominent columns, would have been commissioned by Giocondo circa 1503, and left unfinished in Leonardo's pupil and





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JuliaMono Light

JuliaMono Regular

JuliaMono Medium

JuliaMono Bold

JuliaMono ExtraBold

JuliaMono Black

```
1 # This file is a part of Julia. License is MIT: https://julialang.org/license
2
3 # 'ntuple', for constructing tuples of a given length
4
5 """
6     ntuple(f::Function, n::Integer)
7
8 Create a tuple of length 'n', computing each element as 'f(i)',  
9 where 'i' is the index of the element.
10
11 # Examples
12 ````jlctest
13 julia> ntuple(i → 2*i, 4)
14 (2, 4, 6, 8)
15 ````

17 @inline function ntuple(f::F, n::Integer) where F
    # marked inline since this benefits from constant propagation
    t = n == 0 ? () :
        n == 1 ? (f(1),) :
        n == 2 ? (f(1), f(2)) :
        n == 3 ? (f(1), f(2), f(3)) :
        n == 4 ? (f(1), f(2), f(3), f(4)) :
        n == 5 ? (f(1), f(2), f(3), f(4), f(5)) :
        n == 6 ? (f(1), f(2), f(3), f(4), f(5), f(6)) :
        n == 7 ? (f(1), f(2), f(3), f(4), f(5), f(6), f(7)) :
        n == 8 ? (f(1), f(2), f(3), f(4), f(5), f(6), f(7), f(8)) :
        n == 9 ? (f(1), f(2), f(3), f(4), f(5), f(6), f(7), f(8), f(9)) :
        n == 10 ? (f(1), f(2), f(3), f(4), f(5), f(6), f(7), f(8), f(9), f(10)) :
        _ntuple(f, n)
    return t
32 end
33
34 function _ntuple(f, n)
    @_noinline_meta
    (n >= 0) || throw(ArgumentError(string("tuple length should be ≥ 0, got ", n)))
37 ([f(i) for i = 1:n]...)
38 end
39
40 # inferrable ntuple (enough for bootstrapping)
NORMAL ntuple.jl
```



```

# inferable ntuple (enough for bootstrapping)
ntuple(f, ::Val{0}) = ()
ntuple(f, ::Val{1}) = (@_inline_meta; (f(1),))
ntuple(f, ::Val{2}) = (@_inline_meta; (f(1), f(2)))
ntuple(f, ::Val{3}) = (@_inline_meta; (f(1), f(2), f(3)))

@inline function ntuple(f::F, ::Val{N}) where {F,N}
    N::Int
    (N >= 0) || throw(ArgumentError(string("tuple length should be ≥ 0, got ", N)))
    if @generated
        quote
            @nexprs $N i → t_i = f(i)
            @ncall $N tuple t
        end
    else
        Tuple(f(i) for i = 1:N)
    end
end

```

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```

@inline function fill_to_length(t::Tuple, val, ::Val{_N}) where {_N}
    M = length(t)
    N = _N::Int
    M > N && throw(ArgumentError("input tuple of length $M, requested $N"))
    if @generated
        quote
            (t..., $(fill(:val, (_N::Int) - length(t.parameters))...))
        end
    else
        Tuple(val for i = 1:N)
    end
end

```