\_\_init\_\_.py

from pkg import \*

CongruenceModEquation.py

import math

from pkg import interface

from pkg import ExtendedEuclidean

class CongruenceModEquation(interface.Value, interface.Process):

def \_\_init\_\_(self, a, b, m, num=1):

try:

assert a % num == 0 and b % num == 0 and m % num == 0 and num == math.gcd(math.gcd(a, b), m)

except AssertionError:

num = -1

finally:

self.a = a

self.b = b

self.m = m

self.num = num

def process(self) -> str:

result = "$$ \\begin{aligned} "

if self.num != 1:

result += "&\\because (" + \

", ".join([str(self.a), str(self.b), str(self.m)]) + \

") = " + \

str(self.num) + \

"\\\\ &\\therefore"

else:

result += "&\\because"

result += "{" + \

str(self.a) + \

"} {x} \;\equiv\; {" + \

str(self.b) + \

"}\;mod\;{" + \

str(self.m) + \

"} \\\\"

a = self.a // self.num

b = self.b // self.num

m = self.m // self.num

result += "&\\therefore{" + \

str(a) + \

"} {x} \;\equiv\; {" + \

str(b) + \

"}\;mod\;{" + \

str(m) + \

"} \\\\ \\end{aligned} $$"

temp = ExtendedEuclidean.ExtendedEuclidean(a, m)

result += temp.process()

t, x, \_ = temp.value()

if t != 1:

result += "$$ \\begin{aligned} \\because (" + \

str(a) + \

", " + \

str(m) + \

") \\not= 1 \\\\ \\therefore No\;Solution \\end{aligned} $$"

return result

else:

b = x \* b % m

result += "$$ \\begin{aligned} \\therefore {x} \;&\equiv\; {" + \

str(b) + \

"}\;mod\;{" + \

str(m) + \

"} \\\\ "

if self.num != 1:

result += "\\therefore"

for i in range(self.num):

result += "{x} \;&\equiv\; {" + \

str(b + i \* m) + \

"}\;mod\;{" + \

str(self.m) + \

"} \\\\"

return result + "\\end{aligned} $$"

def value(self):

result = []

if self.num == -1:

return result

a = self.a // self.num

b = self.b // self.num

m = self.m // self.num

temp = ExtendedEuclidean.ExtendedEuclidean(a, m)

t, x, \_ = temp.value()

if t != 1:

return result

else:

b = x \* b % m

for i in range(self.num):

result.append(b + i \* m)

return result

def check(e):

if e.num == -1:

return False

return True

def main():

x = CongruenceModEquation(28, 21, 35, 7)

print(x.process())

if \_\_name\_\_ == '\_\_main\_\_':

main()

CRT.py

from pkg import interface

from pkg import ExtendedEuclidean

class CRT(interface.Process, interface.Value):

def \_\_init\_\_(self, remainder, mod):

self.remainder = remainder

self.mod = mod

if judge\_mod(mod):

self.length = len(mod)

else:

self.length = -1

def process(self) -> str:

result = "$$ \\begin{aligned} {m} &= "

m = 1

\_M\_ = []

\_InvM\_ = []

result += " \\times ".join([("{" + str(k) + "}") for k in self.mod])

for i in range(self.length):

m \*= self.mod[i]

result += " = " + \

str(m) + \

"\\\\"

for i in range(self.length):

temp = 1

temp\_list = []

result += "{M\_{" + \

str(i + 1) + \

"}} &= "

for j in range(self.length):

if self.mod[i] != self.mod[j]:

temp \*= self.mod[j]

temp\_list.append(self.mod[j])

result += " \\times ".join([("{" + str(k) + "}") for k in temp\_list])

result += " = {" + \

str(temp) + \

"} \\\\"

\_M\_.append(temp)

result += "\\end{aligned} $$"

for i in range(self.length):

temp = ExtendedEuclidean.ExtendedEuclidean(\_M\_[i], self.mod[i])

\_, x, \_ = temp.value()

result += temp.process()

\_InvM\_.append(x % self.mod[i])

result += "$$ \\therefore M\_{" + \

str(i + 1) + \

"}^{'} = {" + \

str(\_InvM\_[i]) + \

"} $$"

value = 0

result += "$$ \\begin{aligned} {x} &\equiv \sum\_{i=1}^{" + \

str(self.length) + \

"} {{M}\_{i}\cdot{M}\_{i}^{'}\cdot{b}\_{i}}\; mod \; {m} \\\\ &\equiv ("

for i in range(self.length):

result += "{" + \

str(\_InvM\_[i]) + \

"} \\times {" + \

str(\_M\_[i]) + \

"} \\times {" + \

str(self.remainder[i]) + \

"} "

if i != self.length - 1:

result += " + "

value += \_InvM\_[i] \* \_M\_[i] \* self.remainder[i]

value %= m

result += ")\; mod \; {" + \

str(m) + \

"} \\\\ &\equiv {" + \

str(value) + \

"} \; mod \;{" + \

str(m) + \

"} \\\\ \\end{aligned} $$"

return result

def value(self):

m = 1

\_M\_ = []

\_InvM\_ = []

for i in range(self.length):

m \*= self.mod[i]

for i in range(self.length):

temp = 1

for j in range(self.length):

if self.mod[i] != self.mod[j]:

temp \*= self.mod[j]

\_M\_.append(temp)

for i in range(self.length):

temp = ExtendedEuclidean.ExtendedEuclidean(\_M\_[i], self.mod[i])

\_, x, \_ = temp.value()

\_InvM\_.append(x % self.mod[i])

result = 0

for i in range(self.length):

result += \_InvM\_[i] \* \_M\_[i] \* self.remainder[i]

result %= m

return result, m

def judge\_mod(mod):

for i in range(len(mod)):

for j in range(i + 1, len(mod)):

x = ExtendedEuclidean.ExtendedEuclidean(mod[i], mod[j])

r, \_, \_ = x.value()

if r != 1:

return False

return True

def main():

remainder = [1, 2, 4, 6]

mod = [3, 5, 7, 13]

x = CRT(remainder, mod)

print(x.process())

if \_\_name\_\_ == '\_\_main\_\_':

main()

EulerTheorem.py

from pkg import interface

from pkg import PowerMod

import math

class EulerTheorem(interface.Process, interface.Value):

def \_\_init\_\_(self, a, b, p):

self.a = a

self.b = b

if math.gcd(a, p) == 1:

self.p = p

self.fp = f(p)

else:

self.p = -1

def process(self) -> str:

a = self.a

b = self.b

p = self.p

fp = self.fp

result = "$$ \\begin{aligned} &\\because \\varphi({" + \

str(p) + \

"}) = " + \

str(fp) + \

"\\\\"

result += "&\\therefore {a}^{\\varphi({p})} \equiv {" + \

str(a) + \

"}^{" + \

str(fp) + \

"}\;mod\;{" + \

str(p) + \

"} \\\\ \\end{aligned} $$"

result += "$$ \\begin{aligned} {" + \

str(a) + \

"}^{" + \

str(b) + \

"} &\equiv "

result += "{({" + \

str(a) + \

"} ^ {" + \

str(fp) + \

"})}^{" + \

str(b // fp) + \

"} \\times {" + \

str(a) + \

"}^{" + \

str(b % fp) + \

"}\;mod\;{" + \

str(p) + \

"} \\\\"

result += "&\equiv {" + \

str(a) + \

"}^{" + \

str(b - b // fp \* fp) + \

"}\;mod\;{" + \

str(p) + \

"} \\\\"

result += "&\equiv {" + \

str(a \*\* (b % fp) % p) + \

"}\;mod\;{" + \

str(p) + \

"} \\\\ \\end{aligned} $$"

return result

def value(self):

a = self.a

b = self.b

p = self.p

fp = self.fp

b = b % fp

return PowerMod.PowerMod(a, b, p).value()

def check(e):

if e.p == -1:

return False

return True

def f(p):

result = 0

for i in range(1, p):

if math.gcd(i, p) == 1:

result += 1

return result

def main():

x = EulerTheorem(7, 1005, 5)

print(x.value())

print(x.process())

if \_\_name\_\_ == '\_\_main\_\_':

main()

ExtendedEuclidean.py

from pkg import interface

class ExtendedEuclidean(interface.Process, interface.Value):

def \_\_init\_\_(self, a, b):

self.a = abs(a)

self.b = abs(b)

def process(self) -> str:

big = max(self.a, self.b)

small = min(self.a, self.b)

remainder = [big, small]

coefficient = []

result = "$$ \\begin{aligned} "

while small != 0:

remainder.append(big % small)

coefficient.append(big // small)

big, small = small, big % small

for i in range(len(coefficient)):

result += "{" + \

str(remainder[i]) + \

"} &= {" + \

str(coefficient[i]) + \

"} \\times {" + \

str(remainder[i + 1]) + \

"} + {" + \

str(remainder[i + 2]) + \

"} \\\\"

result += " \end{aligned} $$ $$ \\begin{aligned} "

remainder.pop()

coefficient.pop()

remainder = remainder[::-1]

coefficient = coefficient[::-1]

left = [1]

right = [-coefficient[0]]

for i in range(1, len(coefficient)):

left.append(right[i - 1])

right.append(left[i] \* (-coefficient[i]) + left[i - 1])

result += "{" + \

str(remainder[0]) + \

"}"

for i in range(len(left)):

result += " &= ({" + \

str(left[i]) + \

"}) \\times {" + \

str(remainder[i + 2]) + \

"} + ({" + \

str(right[i]) + \

"}) \\times {" + \

str(remainder[i + 1]) + \

"} \\\\"

if i < len(left) - 1:

result += " &= ({" + \

str(left[i]) + \

"}) \\times {" + \

str(remainder[i + 2]) + \

"} + ({" + \

str(right[i]) + \

"}) \\times ({" + \

str(remainder[i + 3]) + \

"} - ({" + \

str(coefficient[i + 1]) + \

"}) \\times {" + \

str(remainder[i + 2]) + \

"}) \\\\"

return result + " \end{aligned} $$"

def value(self):

big = max(self.a, self.b)

small = min(self.a, self.b)

remainder = [big, small]

coefficient = []

while small != 0:

remainder.append(big % small)

coefficient.append(big // small)

big, small = small, big % small

remainder.pop()

coefficient.pop()

remainder = remainder[::-1]

coefficient = coefficient[::-1]

left = [1]

right = [-coefficient[0]]

for i in range(1, len(coefficient)):

left.append(right[i - 1])

right.append(left[i] \* (-coefficient[i]) + left[i - 1])

if right[-1] \* self.a + left[-1] \* self.b == remainder[0]:

return remainder[0], right[-1], left[-1]

elif left[-1] \* self.a + right[-1] \* self.b == remainder[0]:

return remainder[0], left[-1], right[-1]

def main():

e = ExtendedEuclidean(8656, 7780)

print(e.process())

if \_\_name\_\_ == '\_\_main\_\_':

main()

interface.py

from abc import ABCMeta, abstractmethod

class Process(metaclass=ABCMeta):

@abstractmethod

def process(self) -> str:

pass

class Value(metaclass=ABCMeta):

@abstractmethod

def value(self):

pass

class Encrypto(metaclass=ABCMeta):

@abstractmethod

def encrypto(self, plain\_text):

pass

class Decrypto(metaclass=ABCMeta):

@abstractmethod

def decrypto(self, crypto\_text):

pass

if \_\_name\_\_ == '\_\_main\_\_':

pass

Jacobi.py

import math

from pkg import interface

class Jacobi(interface.Process, interface.Value):

def \_\_init\_\_(self, a, m):

self.a = a

self.m = m

def process(self) -> str:

value = 1

a = self.a

m = self.m

result = r"$$ \begin{aligned} (\frac{" + \

str(a) + \

"}{" + \

str(m) + \

"})"

while m > 1:

a = a % m

temp = m // 2

result += r" &= (" + \

str(value) + \

r") \times (\frac{" + \

str(a) + \

"}{" + \

str(m) + \

r"}) \\"

if a > temp:

a = m - a

result += r"&= (" + \

str(value) + \

r") \times (-1)^{\frac{" + \

str(m) + \

r"}{2}} \times (\frac{" + \

str(a) + \

"}{" + \

str(m) + \

r"}) \\"

if m % 4 == 3:

value = -value

result += r" &= (" + \

str(value) + \

r") \times (\frac{" + \

str(a) + \

"}{" + \

str(m) + \

r"}) \\"

if a == 0:

result += r" &= 0 \\"

value = 0

break

while a % 4 == 0:

a = a // 4

result += r" &= (" + \

str(value) + \

r") \times {(-1)^{\frac{{" + \

str(m) + \

r"}^{2}}{8}}}^{2} \times (\frac{" + \

str(a) + \

"}{" + \

str(m) + \

r"}) \\"

result += r" &= (" + \

str(value) + \

r") \times (\frac{" + \

str(a) + \

"}{" + \

str(m) + \

r"}) \\"

if a % 2 == 0:

a = a // 2

result += r" &= (" + \

str(value) + \

r") \times (-1)^{\frac{{" + \

str(m) + \

r"}^{2}}{8}} \times (\frac{" + \

str(a) + \

"}{" + \

str(m) + \

r"}) \\"

if m % 8 == 3 or m % 8 == 5:

value = -value

result += r" &= (" + \

str(value) + \

r") \times (\frac{" + \

str(a) + \

"}{" + \

str(m) + \

r"}) \\"

if a % 4 == 3 and m % 4 == 3:

value = -value

temp = a

a = m

m = temp

result += r" &= (" + \

str(value) + \

r") \times (-1)^{{\frac{" + \

str(a) + \

r"-1}{2}}\cdot{\frac{" + \

str(m) + \

r"-1}{2}}} \times (\frac{" + \

str(a) + \

"}{" + \

str(m) + \

r"}) \\"

result += r" &= {" + \

str(value) + \

"} "

return result + r"\end{aligned} $$"

def value(self):

result = 1

a = self.a

m = self.m

while m > 1:

\_, a = divmod(a, m)

temp, \_ = divmod(m, 2)

if a > temp:

a = m - a

if is\_congruent(m, 3, 4):

result = -result

if a == 0:

result = 0

break

while is\_congruent(a, 0, 4):

a, \_ = divmod(a, 4)

if is\_congruent(a, 0, 2):

a, \_ = divmod(a, 2)

if is\_congruent(m, 3, 8) or is\_congruent(m, -3, 8):

result = -result

if is\_congruent(a, 3, 4) and is\_congruent(m, 3, 4):

result = -result

temp = a

a = m

m = temp

return result

def is\_congruent(a, b, n):

r = (a - b) % n

if r == 0:

return True

else:

return False

def is\_Legendre(e):

if is\_prime(e.m):

return True

return False

def is\_prime(n):

for i in range(2, int(math.sqrt(n))):

if math.gcd(i, n) != 1:

return False

return True

def main():

x = Jacobi(1233, 5432)

print(is\_Legendre(x))

print(x.process())

if \_\_name\_\_ == '\_\_main\_\_':

main()

PowerMod.py

from pkg import interface

class PowerMod(interface.Process, interface.Value):

def \_\_init\_\_(self, a, b, p):

self.a = a

self.b = b

self.p = p

def process(self) -> str:

a = self.a

b = self.b

p = self.p

other = 1

result\_str = "$$ \\begin{aligned} {" + \

str(a) + \

"}^{" + \

str(b) + \

"} \;{mod}\; {" + \

str(p) + \

"}"

while a != 1 and b != 1:

result\_str += "&\equiv \;"

if b % 2 == 0:

result\_str += "{" + \

str(other) + \

"}\\times" + \

"({" + \

str(a) + \

"} ^ {2})^{" + \

str(b // 2) + \

"} \;{mod}\; {" + \

str(p) + \

"}\\\\"

a = a \* a % p

b = int(b / 2)

else:

result\_str += "{" + \

str(other) + \

"}\\times{" + \

str(a) + \

"} \* {" + \

str(a) + \

"}^{" + \

str(b - 1) + \

"} \;{mod}\; {" + \

str(p) + \

"}\\\\"

other \*= a

b = b - 1

other %= p

result\_str += "&\equiv \;{" + \

str(other) + \

"}\*{" + \

str(a) + \

"}^{" + \

str(b) + \

"} \;{mod}\; {" + \

str(p) + \

"}\\\\"

result\_str += "&\equiv \; {" + \

str(a \* other % p) + \

"} \;{mod}\; {" + \

str(p) + \

"}\\\\"

return result\_str + "\\end{aligned} $$"

def value(self):

a = self.a

b = self.b

p = self.p

other = 1

while a != 1 and b != 1:

if b % 2 == 0:

a = a \* a % p

b = b // 2

else:

other \*= a

b = b - 1

other %= p

return a \* other % p

def reset(self, a, b, p):

self.a = a

self.b = b

self.p = p

def main():

d = PowerMod(7436133, 893757623151968546283637638899442808021098453179411214608595,

1125462283718436691277195836049780558406143209043783553843055)

d1 = PowerMod(848621962257723720981692265660116543140807576731957426725602,

398060176530948938286368548018134344346374814870348726396683,

1125462283718436691277195836049780558406143209043783553843055)

x = d.value()

y = d1.value()

print(x)

print(y)

print(pow(7436133, 102860041892705348374968750821439727614888888193859070233443,

1034875383501851225162176146739552686685173972413185352398045))

print(pow(438183029114329075967406214470176287011931617856231048068283,

443540622442318561601874925630290974589996477090745719672067,

1034875383501851225162176146739552686685173972413185352398045))

print(pow(7436133,

102860041892705348374968750821439727614888888193859070233443 \* 443540622442318561601874925630290974589996477090745719672067,

1034875383501851225162176146739552686685173972413185352398045))

if \_\_name\_\_ == '\_\_main\_\_':

main()

RSA.py

import random

import math

import base64

from pkg import interface

from pkg import PowerMod

from pkg import ExtendedEuclidean

from pkg import Jacobi

class PublicKey:

def \_\_init\_\_(self):

self.n = None

self.e = None

def set\_n(self, n):

self.n = n

def set\_e(self, e):

self.e = e

def check(self):

if not (self.n and self.e):

return False

return True

class PrivateKey:

def \_\_init\_\_(self):

self.p = None

self.q = None

self.d = None

self.public\_key = None

def set\_p(self, p):

self.p = p

def set\_q(self, q):

self.q = q

def set\_d(self, d):

self.d = d

def set\_public\_key(self, public\_key):

if public\_key.check:

self.public\_key = public\_key

else:

self.public\_key = None

def check(self):

if not (self.p and self.q and self.d and self.public\_key):

return False

return True

class RSA(interface.Process, interface.Value, interface.Encrypto, interface.Decrypto):

def \_\_init\_\_(self, bit\_len, mode='SS'):

self.public\_key = PublicKey()

self.private\_key = PrivateKey()

self.bit\_len = bit\_len

self.mode = mode

def process(self):

result = "$$ \\begin{aligned} & guess\;p \\\\"

prime\_factory = GeneratePrimeFactory(self.bit\_len, self.mode, 40)

p, result\_p = prime\_factory.generate\_prime()

q, result\_q = prime\_factory.generate\_prime()

n = p \* q

phi\_n = (p - 1) \* (q - 1)

for i in range(len(result\_p)):

result += "&p = {" + \

str(result\_p[i]) + \

"} \\\\"

result += "& guess\;q \\\\"

for i in range(len(result\_q)):

result += "&q = {" + \

str(result\_q[i]) + \

"} \\\\"

result += "\\end{aligned} $$"

result += "$$ \\begin{aligned} & random\;prime\;{p} = {" + \

str(p) + \

"} \\\\"

result += "& random\;prime\;{q} = {" + \

str(q) + \

"} \\\\"

result += "& {n} = {p} \\times {q} = {" + \

str(p) + \

"} \\times {" + \

str(q) + \

"} = {" + \

str(n) + \

"} \\\\"

result += "& \\varphi({n}) = (p - 1)(q - 1) = ({" + \

str(p) + \

"} - 1)({" + \

str(q) + \

"} - 1) = {" + \

str(phi\_n) + \

"} \\\\"

while True:

e = random.randrange(3, phi\_n, 1)

gcd\_e\_phi\_n = math.gcd(phi\_n, e)

if gcd\_e\_phi\_n != 1:

continue

else:

break

result += "& random\;select\;e\;from\;{3}\;to\; " + \

str(phi\_n) + \

"\; which\; makes\; (e, \\varphi(n)) = 1 \\\\"

result += "& e = {" + \

str(e) + \

"} \\\\"

t = ExtendedEuclidean.ExtendedEuclidean(phi\_n, e)

\_, \_, d = t.value()

if d < 0:

d += phi\_n

self.public\_key.set\_n(n)

self.public\_key.set\_e(e)

self.private\_key.set\_public\_key(self.public\_key)

self.private\_key.set\_d(d)

self.private\_key.set\_p(p)

self.private\_key.set\_q(q)

result += "& calculate\; d\; which\; makes\; ed \\equiv {1} \;mod\;\\varphi(n) \\\\ \\end{aligned} $$ "

result += " $$ \\begin{aligned} & \\therefore d = " + \

str(d) + \

"\\\\"

result += "& \\therefore PublicKey:(n, e) = (" + \

str(self.public\_key.n) + \

", " + \

str(self.public\_key.e) + \

") \\\\"

result += "& \\therefore PrivateKey:(PublicKey(n, e), p, q, d) = ((" + \

str(self.private\_key.public\_key.n) + \

", "

result += str(self.private\_key.public\_key.e) + \

"), " + \

str(self.private\_key.p) + \

", " + \

str(self.private\_key.q)

result += ", " + \

str(self.private\_key.d) + \

") \\\\ \\end{aligned} $$"

self.check()

return result

def value(self):

prime\_factory = GeneratePrimeFactory(self.bit\_len, self.mode, 40)

p, result\_p = prime\_factory.generate\_prime()

q, result\_q = prime\_factory.generate\_prime()

n = p \* q

phi\_n = (p - 1) \* (q - 1)

while True:

e = random.randrange(3, phi\_n, 1)

gcd\_e\_phi\_n = math.gcd(phi\_n, e)

if gcd\_e\_phi\_n != 1:

continue

else:

break

\_, \_, d = ExtendedEuclidean.ExtendedEuclidean(phi\_n, e).value()

if d < 0:

d += phi\_n

self.public\_key.set\_n(n)

self.public\_key.set\_e(e)

self.private\_key.set\_public\_key(self.public\_key)

self.private\_key.set\_d(d)

self.private\_key.set\_p(p)

self.private\_key.set\_q(q)

result = (self.private\_key.public\_key.n,

self.private\_key.public\_key.e), self.private\_key.p, self.private\_key.q, self.private\_key.d

self.check()

return result

def check(self):

try:

assert self.public\_key.n == self.private\_key.p \* self.private\_key.q

assert self.public\_key.e \* self.private\_key.d % ((self.private\_key.p - 1) \* (self.private\_key.q - 1)) == 1

assert self.public\_key.e < self.public\_key.n

assert self.private\_key.d < self.public\_key.n

except AssertionError:

raise ValueError("RSA init fail!")

def encrypto(self, plain\_text):

self.check()

result = "$$ \\begin{aligned} "

result += "& PublicKey:(n, e) = (" + \

str(self.public\_key.n) + \

", " + \

str(self.public\_key.e) + \

") \\\\"

result += "& PrivateKey:(PublicKey(n, e), p, q, d) = ((" + \

str(self.private\_key.public\_key.n) + \

", "

result += str(self.private\_key.public\_key.e) + \

"), " + \

str(self.private\_key.p) + \

", " + \

str(self.private\_key.q)

result += ", " + \

str(self.private\_key.d) + \

") \\\\ \\end{aligned} $$"

result += "$$ \\begin{aligned} &plain \;text:\;" + \

plain\_text + \

r" \\ & \xrightarrow{base16encode}\;"

plain\_text\_num = base64.b16encode(plain\_text.encode("utf-8"))

result += plain\_text\_num.decode("utf-8") + \

r"\\"

plain\_text\_num = int(plain\_text\_num, 16)

result += r"& \xrightarrow{int\;by\;hex} {" + \

str(plain\_text\_num) + "} \\\\"

t = PowerMod.PowerMod(plain\_text\_num, self.public\_key.e, self.public\_key.n)

crypto\_text = hex(t.value()).replace("0x", "")

result += r"& \xrightarrow{encrypto}\; {" + \

str(plain\_text\_num) + \

"}^{" + \

str(self.public\_key.e) + \

"}\;mod\;{" + \

str(self.public\_key.n) + \

"} \\\\"

result += r"& \rightarrow crypto number:" + \

str(t.value()) + \

r"\\"

result += r"& \xrightarrow{encode} crypto text:" + \

crypto\_text + \

r"\\ \end{aligned} $$"

return crypto\_text, result

def decrypto(self, crypto\_text):

self.check()

result = "$$ \\begin{aligned} "

result += "& PublicKey:(n, e) = (" + \

str(self.public\_key.n) + \

", " + \

str(self.public\_key.e) + \

") \\\\"

result += "& PrivateKey:(PublicKey(n, e), p, q, d) = ((" + \

str(self.private\_key.public\_key.n) + \

", "

result += str(self.private\_key.public\_key.e) + \

"), " + \

str(self.private\_key.p) + \

", " + \

str(self.private\_key.q)

result += ", " + \

str(self.private\_key.d) + \

") \\\\ \\end{aligned} $$"

result += "$$ \\begin{aligned} & crypto \;text: \;" + \

crypto\_text + \

r"\\ & \xrightarrow{decode}\;"

crypto\_num = int(crypto\_text, 16)

result += "{" + \

str(crypto\_num) + \

r"} \\ & \xrightarrow{decrypto}\;"

t = PowerMod.PowerMod(crypto\_num, self.private\_key.d, self.private\_key.public\_key.n)

result += "{" + \

str(crypto\_num) + \

"}^{" + \

str(self.private\_key.d) + \

"}\;mod\;{" + \

str(self.private\_key.public\_key.n) + \

"} \\\\"

temp = t.value()

result += r"& \rightarrow {" + \

str(temp) + \

"} \\\\"

plain\_text = hex(temp).replace("0x", "")

result += "& \\xrightarrow{hex\;by\;int} {" + \

plain\_text + \

"} \\\\"

plain\_text = base64.b16decode(plain\_text.upper().encode("utf-8")).decode("utf-8")

result += r"& \xrightarrow{base16decode} {" + \

plain\_text + \

"} \\\\ \\end{aligned} $$"

return plain\_text, result

class GeneratePrimeFactory:

def \_\_init\_\_(self, bit\_len, mode, times=0):

self.bit\_len = bit\_len

self.mode = mode

self.times = times

def generate\_prime(self):

g = generate\_rand\_odd(self.bit\_len)

result = []

if self.mode == "FM":

g, result = generate\_prime\_by\_fermat(self.bit\_len, self.times)

elif self.mode == "MR":

g, result = generate\_prime\_by\_MR(self.bit\_len, self.times)

elif self.mode == "SS":

g, result = generate\_prime\_by\_SS(self.bit\_len, self.times)

return g, result

def generate\_rand\_odd(bit\_len):

temp = 2 \*\* (bit\_len - 1)

odd = random.randrange(1, temp, 2)

odd = odd + temp

return odd

def is\_congruent(a, b, n):

r = (a - b) % n

if r == 0:

return True

else:

return False

def one\_fermat\_test(guessp, b):

guessp\_1 = guessp - 1

result = pow(b, guessp\_1, guessp)

if result == 1:

return True

else:

return False

def many\_fermat\_test(p, times):

for i in range(times):

b = random.randrange(2, p, 1)

if not one\_fermat\_test(p, b):

return False

return True

def generate\_prime\_by\_fermat(bitlen, times):

result = []

while True:

guessp = generate\_rand\_odd(bitlen)

result.append(guessp)

if primality\_test(guessp):

if many\_fermat\_test(guessp, times):

return guessp, result

else:

continue

def get\_2power\_mulm(a):

if a == 0:

return (0, 0)

s = 0

m = a

while True:

q, r = divmod(m, 2)

if r == 0:

s = s + 1

m = q

else:

return (s, m)

def one\_MR\_test(guessp, b):

guessp\_1 = guessp - 1

s, m = get\_2power\_mulm(guessp\_1)

r = 0

z = pow(b, m, guessp)

if z == 1:

return True

if z == guessp\_1:

return True

while True:

if r == s - 1:

return False

r = r + 1

\_, z = divmod(z \* z, guessp)

if z == guessp\_1:

return True

def many\_MR\_test(p, times):

for i in range(times):

b = random.randrange(2, p, 1)

if not one\_MR\_test(p, b):

return False

return True

def generate\_prime\_by\_MR(bitlen, times):

result = []

while True:

guessp = generate\_rand\_odd(bitlen)

result.append(guessp)

if primality\_test(guessp):

if many\_MR\_test(guessp, times):

return guessp, result

else:

continue

def one\_SS\_test(guessp, b):

d, \_, \_ = ExtendedEuclidean.ExtendedEuclidean(guessp, b).value()

if not d == 1:

return False

J = Jacobi.Jacobi(b, guessp).value()

guessp\_1 = guessp - 1

e, \_ = divmod(guessp\_1, 2)

z = pow(b, e, guessp)

if is\_congruent(J, z, guessp):

return True

else:

return False

def many\_SS\_test(p, times):

for i in range(times):

b = random.randrange(2, p, 1)

if not one\_SS\_test(p, b):

return False

return True

def generate\_prime\_by\_SS(bitlen, times):

result = []

while True:

guessp = generate\_rand\_odd(bitlen)

result.append(guessp)

if primality\_test(guessp):

if many\_SS\_test(guessp, times):

return guessp, result

else:

continue

def primality\_test(n):

# test whether n is a prime number or not

small\_prime\_list = [2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67,

71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149,

151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199, 211, 223, 227, 229,

233, 239, 241, 251, 257, 263, 269, 271, 277, 281, 283, 293, 307, 311, 313,

317, 331, 337, 347, 349, 353, 359, 367, 373, 379, 383, 389, 397, 401, 409,

419, 421, 431, 433, 439, 443, 449, 457, 461, 463, 467, 479, 487, 491, 499,

503, 509, 521, 523, 541, 547, 557, 563, 569, 571, 577, 587, 593, 599, 601,

607, 613, 617, 619, 631, 641, 643, 647, 653, 659, 661, 673, 677, 683, 691,

701, 709, 719, 727, 733, 739, 743, 751, 757, 761, 769, 773, 787, 797, 809,

811, 821, 823, 827, 829, 839, 853, 857, 859, 863, 877, 881, 883, 887, 907,

911, 919, 929, 937, 941, 947, 953, 967, 971, 977, 983, 991, 997, 1009, 1013,

1019, 1021, 1031, 1033, 1039, 1049, 1051, 1061, 1063, 1069, 1087, 1091, 1093,

1097, 1103, 1109, 1117, 1123, 1129, 1151, 1153, 1163, 1171, 1181, 1187, 1193,

1201, 1213, 1217, 1223, 1229, 1231, 1237, 1249, 1259, 1277, 1279, 1283, 1289,

1291, 1297, 1301, 1303, 1307, 1319, 1321, 1327, 1361, 1367, 1373, 1381, 1399,

1409, 1423, 1427, 1429, 1433, 1439, 1447, 1451, 1453, 1459, 1471, 1481, 1483,

1487, 1489, 1493, 1499, 1511, 1523, 1531, 1543, 1549, 1553, 1559, 1567, 1571,

1579, 1583, 1597, 1601, 1607, 1609, 1613, 1619, 1621, 1627, 1637, 1657, 1663,

1667, 1669, 1693, 1697, 1699, 1709, 1721, 1723, 1733, 1741, 1747, 1753, 1759,

1777, 1783, 1787, 1789, 1801, 1811, 1823, 1831, 1847, 1861, 1867, 1871, 1873,

1877, 1879, 1889, 1901, 1907, 1913, 1931, 1933, 1949, 1951, 1973, 1979, 1987,

1993, 1997, 1999]

for prime in small\_prime\_list:

if n % prime == 0:

return False

return True

def main():

r = RSA(400)

print(r.process())

x, x1 = r.encrypto("abcdefghijklmnopqrstuvwxyz")

print(x)

print(x1)

y, y1 = r.decrypto(x)

print(y)

print(y1)

if \_\_name\_\_ == '\_\_main\_\_':

main()

main.py

from main\_ui import \*

from PySide2 import QtWebEngineWidgets

import sys

import random

from pkg import ExtendedEuclidean

from pkg import PowerMod

from pkg import Jacobi

from pkg import CRT

from pkg import EulerTheorem

from pkg import CongruenceModEquation

from pkg import RSA

class MainWindow(QMainWindow):

def \_\_init\_\_(self):

super(MainWindow, self).\_\_init\_\_()

self.ui = Ui\_MainWindow()

self.ui.setupUi(self)

self.ui.WebView.page().settings().setAttribute(QtWebEngineWidgets.QWebEngineSettings.ShowScrollBars, True)

self.RSAInit()

self.CongruenceModEquationInit()

self.EulerTheoremInit()

self.CRTInit()

self.JacobiInit()

self.PowerModInit()

self.ExtendedEuclideanInit()

self.RSAObject = None

def RSAInit(self):

self.ui.RSABitLenEditor.setText("200")

self.ui.RSAMethedComboBox.setCurrentIndex(0)

self.ui.RSAPlaintextEdit.setText("abcdefghijklmnopqrstuvwxyz")

self.ui.RSAGenerateButton.clicked.connect(self.RSAGenerateKey)

self.ui.RSACryptoButton.clicked.connect(self.RSACryptoText)

def RSAGenerateKey(self):

if self.ui.RSABitLenEditor.text().isdigit():

bit\_len = int(self.ui.RSABitLenEditor.text())

mode = self.ui.RSAMethedComboBox.currentText()

self.RSAObject = RSA.RSA(bit\_len, mode)

self.Display(self.RSAObject)

else:

ErrorMessageBox("位数缺失或为非数字")

def RSACryptoText(self):

plain\_text = self.ui.RSAPlaintextEdit.toPlainText()

crypto\_text, result\_text = self.RSAObject.encrypto(plain\_text)

\_, temp\_text = self.RSAObject.decrypto(crypto\_text)

result = result\_text + temp\_text

self.ui.RSACryptotextEdit.setText(crypto\_text)

self.Display(result)

def CongruenceModEquationInit(self):

self.ui.CongruenceModEquationNumEditor.setText("1")

self.CongruenceModEquationRandomHandle()

self.ui.CongruenceModEquationRandomButton.clicked.connect(self.CongruenceModEquationRandomHandle)

self.ui.CongruenceModEquationCalculateButton.clicked.connect(self.CongruenceModEquationCalculateHandle)

def CongruenceModEquationRandomHandle(self):

if self.ui.CongruenceModEquationNumEditor.text().isdigit():

num = int(self.ui.CongruenceModEquationNumEditor.text())

a = random.randint(50, 200)

b = random.randint(50, 200)

m = random.randint(50, 200)

e = CongruenceModEquation.CongruenceModEquation(a, b, m, num)

while not CongruenceModEquation.check(e):

a = random.randint(50, 200)

b = random.randint(50, 200)

m = random.randint(50, 200)

e = CongruenceModEquation.CongruenceModEquation(a, b, m, num)

self.ui.CongruenceModEquationAEditor.setText(str(a))

self.ui.CongruenceModEquationBEditor.setText(str(b))

self.ui.CongruenceModEquationMEditor.setText(str(m))

else:

ErrorMessageBox("所需的文本框未填写或包含非数字")

def CongruenceModEquationCalculateHandle(self):

if self.ui.CongruenceModEquationAEditor.text().isdigit() and \

self.ui.CongruenceModEquationBEditor.text().isdigit() and \

self.ui.CongruenceModEquationMEditor.text().isdigit() and \

self.ui.CongruenceModEquationNumEditor.text().isdigit():

num = int(self.ui.CongruenceModEquationNumEditor.text())

a = int(self.ui.CongruenceModEquationAEditor.text())

b = int(self.ui.CongruenceModEquationBEditor.text())

m = int(self.ui.CongruenceModEquationMEditor.text())

e = CongruenceModEquation.CongruenceModEquation(a, b, m, num)

self.Display(e)

else:

ErrorMessageBox("所需的文本框未填写或包含非数字")

def EulerTheoremInit(self):

self.EulerTheoremRandomHandle()

self.ui.EulerTheoremRandomButton.clicked.connect(self.EulerTheoremRandomHandle)

self.ui.EulerTheoremCalculateButton.clicked.connect(self.EulerTheoremCalculateHandle)

def EulerTheoremRandomHandle(self):

a = random.randint(3, 100)

b = random.randint(500, 9999)

p = random.randint(100, 500)

e = EulerTheorem.EulerTheorem(a, b, p)

while not EulerTheorem.check(e):

a = random.randint(3, 100)

b = random.randint(500, 9999)

p = random.randint(100, 500)

e = EulerTheorem.EulerTheorem(a, b, p)

self.ui.EulerTheoremAEditor.setText(str(a))

self.ui.EulerTheoremBEditor.setText(str(b))

self.ui.EulerTheoremPEditor.setText(str(p))

def EulerTheoremCalculateHandle(self):

if self.ui.EulerTheoremAEditor.text().isdigit() and \

self.ui.EulerTheoremBEditor.text().isdigit() and \

self.ui.EulerTheoremPEditor.text().isdigit():

a = int(self.ui.EulerTheoremAEditor.text())

b = int(self.ui.EulerTheoremBEditor.text())

p = int(self.ui.EulerTheoremPEditor.text())

e = EulerTheorem.EulerTheorem(a, b, p)

self.Display(e)

else:

ErrorMessageBox("所需的文本框未填写或包含非数字")

def CRTInit(self):

self.ui.CRTRemainder1.setText("-1")

self.ui.CRTRemainder2.setText("-1")

self.ui.CRTRemainder3.setText("-1")

self.ui.CRTRemainder4.setText("-1")

self.ui.CRTRemainder5.setText("-1")

self.ui.CRTMod1.setText("-1")

self.ui.CRTMod2.setText("-1")

self.ui.CRTMod3.setText("-1")

self.ui.CRTMod4.setText("-1")

self.ui.CRTMod5.setText("-1")

self.ui.CRTCalculateButton.clicked.connect(self.CRTCalculateHandle)

def CRTCalculateHandle(self):

remainder = []

mod = []

if self.ui.CRTRemainder1.text().isdigit() and self.ui.CRTMod1.text().isdigit():

if self.ui.CRTRemainder1.text() != "-1" and self.ui.CRTMod1.text() != "-1":

remainder.append(int(self.ui.CRTRemainder1.text()))

mod.append(int(self.ui.CRTMod1.text()))

if self.ui.CRTRemainder2.text().isdigit() and self.ui.CRTMod2.text().isdigit():

if self.ui.CRTRemainder2.text() != "-1" and self.ui.CRTMod2.text() != "-1":

remainder.append(int(self.ui.CRTRemainder2.text()))

mod.append(int(self.ui.CRTMod2.text()))

if self.ui.CRTRemainder3.text().isdigit() and self.ui.CRTMod3.text().isdigit():

if self.ui.CRTRemainder3.text() != "-1" and self.ui.CRTMod3.text() != "-1":

remainder.append(int(self.ui.CRTRemainder3.text()))

mod.append(int(self.ui.CRTMod3.text()))

if self.ui.CRTRemainder4.text().isdigit() and self.ui.CRTMod4.text().isdigit():

if self.ui.CRTRemainder4.text() != "-1" and self.ui.CRTMod4.text() != "-1":

remainder.append(int(self.ui.CRTRemainder4.text()))

mod.append(int(self.ui.CRTMod4.text()))

if self.ui.CRTRemainder5.text().isdigit() and self.ui.CRTMod5.text().isdigit():

if self.ui.CRTRemainder5.text() != "-1" and self.ui.CRTMod5.text() != "-1":

remainder.append(int(self.ui.CRTRemainder5.text()))

mod.append(int(self.ui.CRTMod5.text()))

if CRT.judge\_mod(mod):

e = CRT.CRT(remainder, mod)

self.Display(e)

else:

ErrorText = "模数不互素"

ErrorMessageBox(ErrorText)

def JacobiInit(self):

self.ui.JacobiEditorMinA.setText("200")

self.ui.JacobiEditorMinM.setText("199")

self.ui.JacobiEditorMaxA.setText("1000")

self.ui.JacobiEditorMaxM.setText("1001")

self.ui.JacobiLegendreCheckBox.setChecked(True)

self.JacobiRandomHandle()

self.ui.JacobiRandomPushButton.clicked.connect(self.JacobiRandomHandle)

self.ui.JacobiCalculatePushButton.clicked.connect(self.JacobiCalculateHandle)

def JacobiRandomHandle(self):

if self.ui.JacobiEditorMaxA.text().isdigit() and \

self.ui.JacobiEditorMaxM.text().isdigit() and \

self.ui.JacobiEditorMinA.text().isdigit() and \

self.ui.JacobiEditorMinM.text().isdigit():

MaxA = int(self.ui.JacobiEditorMaxA.text())

MinA = int(self.ui.JacobiEditorMinA.text())

MaxM = int(self.ui.JacobiEditorMaxM.text())

MinM = int(self.ui.JacobiEditorMinM.text())

A = random.randrange(MinA, MaxA)

M = random.randrange(MinM, MaxM)

if self.ui.JacobiLegendreCheckBox.isChecked():

e = Jacobi.Jacobi(A, M)

while not Jacobi.is\_Legendre(e):

A = random.randrange(MinA, MaxA)

M = random.randrange(MinM, MaxM, 2)

e = Jacobi.Jacobi(A, M)

self.ui.JacobiEditorA.setText(str(A))

self.ui.JacobiEditorM.setText(str(M))

else:

ErrorText = "所需的文本框未填写或包含非数字"

ErrorMessageBox(ErrorText)

def JacobiCalculateHandle(self):

if self.ui.JacobiEditorA.text().isdigit() and self.ui.JacobiEditorM.text().isdigit():

a = int(self.ui.JacobiEditorA.text())

m = int(self.ui.JacobiEditorM.text())

e = Jacobi.Jacobi(a, m)

if Jacobi.is\_Legendre(e):

self.ui.JacobiLegendreCheckBox.setChecked(True)

else:

self.ui.JacobiLegendreCheckBox.setChecked(False)

self.Display(e)

def PowerModInit(self):

self.PowerModRandomHandle()

self.ui.PowerModRandomButton.clicked.connect(self.PowerModRandomHandle)

self.ui.PowerModCalculateButton.clicked.connect(self.PowerModCalculateHandle)

def PowerModRandomHandle(self):

self.ui.PowerModA.setText(str(random.randint(20, 100)))

self.ui.PowerModB.setText(str(random.randint(50, 100)))

self.ui.PowerModP.setText(str(random.randint(50, 100)))

def PowerModCalculateHandle(self):

if self.ui.PowerModA.text().isdigit() and \

self.ui.PowerModB.text().isdigit() and \

self.ui.PowerModP.text().isdigit():

a = int(self.ui.PowerModA.text())

b = int(self.ui.PowerModB.text())

p = int(self.ui.PowerModP.text())

e = PowerMod.PowerMod(a, b, p)

self.Display(e)

else:

ErrorText = "所需的文本框未填写或包含非数字"

ErrorMessageBox(ErrorText)

def ExtendedEuclideanInit(self):

self.ui.ExtendedEuclideanMaxAEditer.setText("200")

self.ui.ExtendedEuclideanMaxBEditer.setText("200")

self.ui.ExtendedEuclideanMinAEditer.setText("50")

self.ui.ExtendedEuclideanMinBEditer.setText("50")

self.ui.ExtendedEuclidean\_1\_Button.click()

self.ui.ExtendedEuclideanRandomButton.click()

self.ui.ExtendedEuclideanCalculateButton.clicked.connect(self.ExtendedEuclideanHandle)

def ExtendedEuclideanHandle(self):

e = None

if self.ui.ExtendedEuclideanRandomButton.isChecked() and \

self.ui.ExtendedEuclideanMinAEditer.text().isdigit() and \

self.ui.ExtendedEuclideanMinBEditer.text().isdigit() and \

self.ui.ExtendedEuclideanMaxAEditer.text().isdigit() and \

self.ui.ExtendedEuclideanMaxBEditer.text().isdigit():

max\_a = int(self.ui.ExtendedEuclideanMaxAEditer.text())

min\_a = int(self.ui.ExtendedEuclideanMinAEditer.text())

max\_b = int(self.ui.ExtendedEuclideanMaxBEditer.text())

min\_b = int(self.ui.ExtendedEuclideanMinBEditer.text())

a = random.randint(min\_a, max\_a)

b = random.randint(min\_b, max\_b)

if self.ui.ExtendedEuclidean\_1\_Button.isChecked():

while True:

a = random.randint(min\_a, max\_a)

b = random.randint(min\_b, max\_b)

if a == b:

continue

e = ExtendedEuclidean.ExtendedEuclidean(a, b)

if e.value()[0] == 1:

break

else:

e = ExtendedEuclidean.ExtendedEuclidean(a, b)

self.ui.ExtendedEuclideanAEditer.setText(str(a))

self.ui.ExtendedEuclideanBEditer.setText(str(b))

elif not self.ui.ExtendedEuclideanRandomButton.isChecked() and \

self.ui.ExtendedEuclideanAEditer.text().isdigit() and \

self.ui.ExtendedEuclideanBEditer.text().isdigit():

a = int(self.ui.ExtendedEuclideanAEditer.text())

b = int(self.ui.ExtendedEuclideanBEditer.text())

e = ExtendedEuclidean.ExtendedEuclidean(a, b)

else:

ErrorText = "所需的文本框未填写或包含非数字"

ErrorMessageBox(ErrorText)

self.Display(e)

def Display(self, e):

if not e:

return

with open("temporary.html", "w") as f1:

with open("index.html", "r") as f2:

index\_text = f2.read()

if type(e) == type(""):

index\_text = index\_text.format(e)

else:

index\_text = index\_text.format(e.process())

f1.write(index\_text)

self.ui.WebView.load(QUrl("file:///temporary.html"))

def ErrorMessageBox(title):

message\_box = QMessageBox()

message\_box.setWindowTitle("Error")

message\_box.setText("[错误] %s" % title)

message\_box.exec\_()

def main():

app = QApplication(sys.argv)

main\_window = MainWindow()

main\_window.show()

sys.exit(app.exec\_())

if \_\_name\_\_ == '\_\_main\_\_':

main()

index.html

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>test</title>

<link rel="stylesheet" href="katex/katex.min.css">

<script defer src="katex/katex.min.js"></script>

<script defer src="katex/auto-render.min.js" onload="renderMathInElement(document.body);"></script>

</head>

<body>

{}

</body>

</html>

Main\_ui.py

from PySide2.QtCore import (QCoreApplication, QDate, QDateTime, QMetaObject,

QObject, QPoint, QRect, QSize, QTime, QUrl, Qt)

from PySide2.QtGui import (QBrush, QColor, QConicalGradient, QCursor, QFont,

QFontDatabase, QIcon, QKeySequence, QLinearGradient, QPalette, QPainter,

QPixmap, QRadialGradient)

from PySide2.QtWidgets import \*

from PySide2.QtWebEngineWidgets import QWebEngineView

class Ui\_MainWindow(object):

def setupUi(self, MainWindow):

if not MainWindow.objectName():

MainWindow.setObjectName(u"MainWindow")

MainWindow.resize(1009, 870)

self.centralwidget = QWidget(MainWindow)

self.centralwidget.setObjectName(u"centralwidget")

self.Tab = QTabWidget(self.centralwidget)

self.Tab.setObjectName(u"Tab")

self.Tab.setGeometry(QRect(0, 0, 1011, 231))

self.ExtendedEuclidean = QWidget()

self.ExtendedEuclidean.setObjectName(u"ExtendedEuclidean")

self.layoutWidget = QWidget(self.ExtendedEuclidean)

self.layoutWidget.setObjectName(u"layoutWidget")

self.layoutWidget.setGeometry(QRect(0, 0, 1001, 201))

self.gridLayout\_5 = QGridLayout(self.layoutWidget)

self.gridLayout\_5.setObjectName(u"gridLayout\_5")

self.gridLayout\_5.setContentsMargins(0, 0, 0, 0)

self.gridLayout\_3 = QGridLayout()

self.gridLayout\_3.setObjectName(u"gridLayout\_3")

self.gridLayout\_2 = QGridLayout()

self.gridLayout\_2.setObjectName(u"gridLayout\_2")

self.label\_5 = QLabel(self.layoutWidget)

self.label\_5.setObjectName(u"label\_5")

self.gridLayout\_2.addWidget(self.label\_5, 0, 0, 1, 1)

self.ExtendedEuclideanAEditer = QLineEdit(self.layoutWidget)

self.ExtendedEuclideanAEditer.setObjectName(u"ExtendedEuclideanAEditer")

self.gridLayout\_2.addWidget(self.ExtendedEuclideanAEditer, 0, 1, 1, 1)

self.label\_6 = QLabel(self.layoutWidget)

self.label\_6.setObjectName(u"label\_6")

self.gridLayout\_2.addWidget(self.label\_6, 1, 0, 1, 1)

self.ExtendedEuclideanBEditer = QLineEdit(self.layoutWidget)

self.ExtendedEuclideanBEditer.setObjectName(u"ExtendedEuclideanBEditer")

self.gridLayout\_2.addWidget(self.ExtendedEuclideanBEditer, 1, 1, 1, 1)

self.gridLayout\_3.addLayout(self.gridLayout\_2, 0, 0, 1, 1)

self.gridLayout = QGridLayout()

self.gridLayout.setObjectName(u"gridLayout")

self.label = QLabel(self.layoutWidget)

self.label.setObjectName(u"label")

self.gridLayout.addWidget(self.label, 0, 0, 1, 1)

self.ExtendedEuclideanMinAEditer = QLineEdit(self.layoutWidget)

self.ExtendedEuclideanMinAEditer.setObjectName(u"ExtendedEuclideanMinAEditer")

self.gridLayout.addWidget(self.ExtendedEuclideanMinAEditer, 0, 1, 1, 1)

self.label\_4 = QLabel(self.layoutWidget)

self.label\_4.setObjectName(u"label\_4")

self.gridLayout.addWidget(self.label\_4, 0, 2, 1, 1)

self.ExtendedEuclideanMaxAEditer = QLineEdit(self.layoutWidget)

self.ExtendedEuclideanMaxAEditer.setObjectName(u"ExtendedEuclideanMaxAEditer")

self.gridLayout.addWidget(self.ExtendedEuclideanMaxAEditer, 0, 3, 1, 1)

self.label\_2 = QLabel(self.layoutWidget)

self.label\_2.setObjectName(u"label\_2")

self.gridLayout.addWidget(self.label\_2, 1, 0, 1, 1)

self.ExtendedEuclideanMinBEditer = QLineEdit(self.layoutWidget)

self.ExtendedEuclideanMinBEditer.setObjectName(u"ExtendedEuclideanMinBEditer")

self.gridLayout.addWidget(self.ExtendedEuclideanMinBEditer, 1, 1, 1, 1)

self.label\_3 = QLabel(self.layoutWidget)

self.label\_3.setObjectName(u"label\_3")

self.gridLayout.addWidget(self.label\_3, 1, 2, 1, 1)

self.ExtendedEuclideanMaxBEditer = QLineEdit(self.layoutWidget)

self.ExtendedEuclideanMaxBEditer.setObjectName(u"ExtendedEuclideanMaxBEditer")

self.gridLayout.addWidget(self.ExtendedEuclideanMaxBEditer, 1, 3, 1, 1)

self.gridLayout\_3.addLayout(self.gridLayout, 1, 0, 1, 1)

self.gridLayout\_5.addLayout(self.gridLayout\_3, 0, 0, 1, 1)

self.gridLayout\_4 = QGridLayout()

self.gridLayout\_4.setObjectName(u"gridLayout\_4")

self.ExtendedEuclideanCalculateButton = QPushButton(self.layoutWidget)

self.ExtendedEuclideanCalculateButton.setObjectName(u"ExtendedEuclideanCalculateButton")

self.gridLayout\_4.addWidget(self.ExtendedEuclideanCalculateButton, 2, 0, 1, 1)

self.ExtendedEuclideanRandomButton = QCheckBox(self.layoutWidget)

self.ExtendedEuclideanRandomButton.setObjectName(u"ExtendedEuclideanRandomButton")

self.gridLayout\_4.addWidget(self.ExtendedEuclideanRandomButton, 0, 0, 1, 1)

self.ExtendedEuclidean\_1\_Button = QCheckBox(self.layoutWidget)

self.ExtendedEuclidean\_1\_Button.setObjectName(u"ExtendedEuclidean\_1\_Button")

self.gridLayout\_4.addWidget(self.ExtendedEuclidean\_1\_Button, 1, 0, 1, 1)

self.gridLayout\_5.addLayout(self.gridLayout\_4, 0, 1, 1, 1)

self.Tab.addTab(self.ExtendedEuclidean, "")

self.PowerMod = QWidget()

self.PowerMod.setObjectName(u"PowerMod")

self.layoutWidget1 = QWidget(self.PowerMod)

self.layoutWidget1.setObjectName(u"layoutWidget1")

self.layoutWidget1.setGeometry(QRect(0, 10, 1001, 191))

self.horizontalLayout\_2 = QHBoxLayout(self.layoutWidget1)

self.horizontalLayout\_2.setObjectName(u"horizontalLayout\_2")

self.horizontalLayout\_2.setContentsMargins(0, 0, 0, 0)

self.horizontalLayout = QHBoxLayout()

self.horizontalLayout.setObjectName(u"horizontalLayout")

self.label\_7 = QLabel(self.layoutWidget1)

self.label\_7.setObjectName(u"label\_7")

self.horizontalLayout.addWidget(self.label\_7)

self.PowerModA = QLineEdit(self.layoutWidget1)

self.PowerModA.setObjectName(u"PowerModA")

self.horizontalLayout.addWidget(self.PowerModA)

self.label\_8 = QLabel(self.layoutWidget1)

self.label\_8.setObjectName(u"label\_8")

self.horizontalLayout.addWidget(self.label\_8)

self.PowerModB = QLineEdit(self.layoutWidget1)

self.PowerModB.setObjectName(u"PowerModB")

self.horizontalLayout.addWidget(self.PowerModB)

self.label\_9 = QLabel(self.layoutWidget1)

self.label\_9.setObjectName(u"label\_9")

self.horizontalLayout.addWidget(self.label\_9)

self.PowerModP = QLineEdit(self.layoutWidget1)

self.PowerModP.setObjectName(u"PowerModP")

self.horizontalLayout.addWidget(self.PowerModP)

self.horizontalLayout\_2.addLayout(self.horizontalLayout)

self.verticalLayout = QVBoxLayout()

self.verticalLayout.setObjectName(u"verticalLayout")

self.PowerModRandomButton = QPushButton(self.layoutWidget1)

self.PowerModRandomButton.setObjectName(u"PowerModRandomButton")

self.verticalLayout.addWidget(self.PowerModRandomButton)

self.PowerModCalculateButton = QPushButton(self.layoutWidget1)

self.PowerModCalculateButton.setObjectName(u"PowerModCalculateButton")

self.verticalLayout.addWidget(self.PowerModCalculateButton)

self.horizontalLayout\_2.addLayout(self.verticalLayout)

self.Tab.addTab(self.PowerMod, "")

self.Jacobi = QWidget()

self.Jacobi.setObjectName(u"Jacobi")

self.layoutWidget2 = QWidget(self.Jacobi)

self.layoutWidget2.setObjectName(u"layoutWidget2")

self.layoutWidget2.setGeometry(QRect(2, 2, 1001, 201))

self.horizontalLayout\_4 = QHBoxLayout(self.layoutWidget2)

self.horizontalLayout\_4.setObjectName(u"horizontalLayout\_4")

self.horizontalLayout\_4.setContentsMargins(0, 0, 0, 0)

self.verticalLayout\_5 = QVBoxLayout()

self.verticalLayout\_5.setObjectName(u"verticalLayout\_5")

self.horizontalLayout\_3 = QHBoxLayout()

self.horizontalLayout\_3.setObjectName(u"horizontalLayout\_3")

self.label\_13 = QLabel(self.layoutWidget2)

self.label\_13.setObjectName(u"label\_13")

self.horizontalLayout\_3.addWidget(self.label\_13)

self.verticalLayout\_2 = QVBoxLayout()

self.verticalLayout\_2.setObjectName(u"verticalLayout\_2")

self.label\_11 = QLabel(self.layoutWidget2)

self.label\_11.setObjectName(u"label\_11")

self.verticalLayout\_2.addWidget(self.label\_11)

self.line\_2 = QFrame(self.layoutWidget2)

self.line\_2.setObjectName(u"line\_2")

self.line\_2.setFrameShape(QFrame.HLine)

self.line\_2.setFrameShadow(QFrame.Sunken)

self.verticalLayout\_2.addWidget(self.line\_2)

self.label\_10 = QLabel(self.layoutWidget2)

self.label\_10.setObjectName(u"label\_10")

self.verticalLayout\_2.addWidget(self.label\_10)

self.horizontalLayout\_3.addLayout(self.verticalLayout\_2)

self.label\_12 = QLabel(self.layoutWidget2)

self.label\_12.setObjectName(u"label\_12")

self.horizontalLayout\_3.addWidget(self.label\_12)

self.verticalLayout\_3 = QVBoxLayout()

self.verticalLayout\_3.setObjectName(u"verticalLayout\_3")

self.JacobiEditorA = QLineEdit(self.layoutWidget2)

self.JacobiEditorA.setObjectName(u"JacobiEditorA")

self.verticalLayout\_3.addWidget(self.JacobiEditorA)

self.line = QFrame(self.layoutWidget2)

self.line.setObjectName(u"line")

self.line.setFrameShape(QFrame.HLine)

self.line.setFrameShadow(QFrame.Sunken)

self.verticalLayout\_3.addWidget(self.line)

self.JacobiEditorM = QLineEdit(self.layoutWidget2)

self.JacobiEditorM.setObjectName(u"JacobiEditorM")

self.verticalLayout\_3.addWidget(self.JacobiEditorM)

self.horizontalLayout\_3.addLayout(self.verticalLayout\_3)

self.label\_15 = QLabel(self.layoutWidget2)

self.label\_15.setObjectName(u"label\_15")

self.horizontalLayout\_3.addWidget(self.label\_15)

self.verticalLayout\_5.addLayout(self.horizontalLayout\_3)

self.gridLayout\_6 = QGridLayout()

self.gridLayout\_6.setObjectName(u"gridLayout\_6")

self.label\_17 = QLabel(self.layoutWidget2)

self.label\_17.setObjectName(u"label\_17")

self.gridLayout\_6.addWidget(self.label\_17, 0, 0, 1, 1)

self.JacobiEditorMinA = QLineEdit(self.layoutWidget2)

self.JacobiEditorMinA.setObjectName(u"JacobiEditorMinA")

self.gridLayout\_6.addWidget(self.JacobiEditorMinA, 0, 1, 1, 1)

self.label\_14 = QLabel(self.layoutWidget2)

self.label\_14.setObjectName(u"label\_14")

self.gridLayout\_6.addWidget(self.label\_14, 0, 2, 1, 1)

self.JacobiEditorMaxA = QLineEdit(self.layoutWidget2)

self.JacobiEditorMaxA.setObjectName(u"JacobiEditorMaxA")

self.gridLayout\_6.addWidget(self.JacobiEditorMaxA, 0, 3, 1, 1)

self.label\_18 = QLabel(self.layoutWidget2)

self.label\_18.setObjectName(u"label\_18")

self.gridLayout\_6.addWidget(self.label\_18, 1, 0, 1, 1)

self.JacobiEditorMinM = QLineEdit(self.layoutWidget2)

self.JacobiEditorMinM.setObjectName(u"JacobiEditorMinM")

self.gridLayout\_6.addWidget(self.JacobiEditorMinM, 1, 1, 1, 1)

self.label\_16 = QLabel(self.layoutWidget2)

self.label\_16.setObjectName(u"label\_16")

self.gridLayout\_6.addWidget(self.label\_16, 1, 2, 1, 1)

self.JacobiEditorMaxM = QLineEdit(self.layoutWidget2)

self.JacobiEditorMaxM.setObjectName(u"JacobiEditorMaxM")

self.gridLayout\_6.addWidget(self.JacobiEditorMaxM, 1, 3, 1, 1)

self.verticalLayout\_5.addLayout(self.gridLayout\_6)

self.horizontalLayout\_4.addLayout(self.verticalLayout\_5)

self.verticalLayout\_4 = QVBoxLayout()

self.verticalLayout\_4.setObjectName(u"verticalLayout\_4")

self.JacobiLegendreCheckBox = QCheckBox(self.layoutWidget2)

self.JacobiLegendreCheckBox.setObjectName(u"JacobiLegendreCheckBox")

self.verticalLayout\_4.addWidget(self.JacobiLegendreCheckBox)

self.JacobiRandomPushButton = QPushButton(self.layoutWidget2)

self.JacobiRandomPushButton.setObjectName(u"JacobiRandomPushButton")

self.verticalLayout\_4.addWidget(self.JacobiRandomPushButton)

self.JacobiCalculatePushButton = QPushButton(self.layoutWidget2)

self.JacobiCalculatePushButton.setObjectName(u"JacobiCalculatePushButton")

self.verticalLayout\_4.addWidget(self.JacobiCalculatePushButton)

self.horizontalLayout\_4.addLayout(self.verticalLayout\_4)

self.Tab.addTab(self.Jacobi, "")

self.CRT = QWidget()

self.CRT.setObjectName(u"CRT")

self.label\_29 = QLabel(self.CRT)

self.label\_29.setObjectName(u"label\_29")

self.label\_29.setGeometry(QRect(471, 23, 93, 16))

self.layoutWidget3 = QWidget(self.CRT)

self.layoutWidget3.setObjectName(u"layoutWidget3")

self.layoutWidget3.setGeometry(QRect(0, 0, 1001, 201))

self.horizontalLayout\_6 = QHBoxLayout(self.layoutWidget3)

self.horizontalLayout\_6.setObjectName(u"horizontalLayout\_6")

self.horizontalLayout\_6.setContentsMargins(0, 0, 0, 0)

self.horizontalLayout\_5 = QHBoxLayout()

self.horizontalLayout\_5.setObjectName(u"horizontalLayout\_5")

self.verticalLayout\_9 = QVBoxLayout()

self.verticalLayout\_9.setObjectName(u"verticalLayout\_9")

self.label\_19 = QLabel(self.layoutWidget3)

self.label\_19.setObjectName(u"label\_19")

self.verticalLayout\_9.addWidget(self.label\_19)

self.label\_21 = QLabel(self.layoutWidget3)

self.label\_21.setObjectName(u"label\_21")

self.verticalLayout\_9.addWidget(self.label\_21)

self.label\_23 = QLabel(self.layoutWidget3)

self.label\_23.setObjectName(u"label\_23")

self.verticalLayout\_9.addWidget(self.label\_23)

self.label\_25 = QLabel(self.layoutWidget3)

self.label\_25.setObjectName(u"label\_25")

self.verticalLayout\_9.addWidget(self.label\_25)

self.label\_27 = QLabel(self.layoutWidget3)

self.label\_27.setObjectName(u"label\_27")

self.verticalLayout\_9.addWidget(self.label\_27)

self.horizontalLayout\_5.addLayout(self.verticalLayout\_9)

self.verticalLayout\_8 = QVBoxLayout()

self.verticalLayout\_8.setObjectName(u"verticalLayout\_8")

self.CRTRemainder1 = QLineEdit(self.layoutWidget3)

self.CRTRemainder1.setObjectName(u"CRTRemainder1")

self.verticalLayout\_8.addWidget(self.CRTRemainder1)

self.CRTRemainder2 = QLineEdit(self.layoutWidget3)

self.CRTRemainder2.setObjectName(u"CRTRemainder2")

self.verticalLayout\_8.addWidget(self.CRTRemainder2)

self.CRTRemainder3 = QLineEdit(self.layoutWidget3)

self.CRTRemainder3.setObjectName(u"CRTRemainder3")

self.verticalLayout\_8.addWidget(self.CRTRemainder3)

self.CRTRemainder4 = QLineEdit(self.layoutWidget3)

self.CRTRemainder4.setObjectName(u"CRTRemainder4")

self.verticalLayout\_8.addWidget(self.CRTRemainder4)

self.CRTRemainder5 = QLineEdit(self.layoutWidget3)

self.CRTRemainder5.setObjectName(u"CRTRemainder5")

self.verticalLayout\_8.addWidget(self.CRTRemainder5)

self.horizontalLayout\_5.addLayout(self.verticalLayout\_8)

self.verticalLayout\_7 = QVBoxLayout()

self.verticalLayout\_7.setObjectName(u"verticalLayout\_7")

self.label\_20 = QLabel(self.layoutWidget3)

self.label\_20.setObjectName(u"label\_20")

self.verticalLayout\_7.addWidget(self.label\_20)

self.label\_22 = QLabel(self.layoutWidget3)

self.label\_22.setObjectName(u"label\_22")

self.verticalLayout\_7.addWidget(self.label\_22)

self.label\_24 = QLabel(self.layoutWidget3)

self.label\_24.setObjectName(u"label\_24")

self.verticalLayout\_7.addWidget(self.label\_24)

self.label\_26 = QLabel(self.layoutWidget3)

self.label\_26.setObjectName(u"label\_26")

self.verticalLayout\_7.addWidget(self.label\_26)

self.label\_28 = QLabel(self.layoutWidget3)

self.label\_28.setObjectName(u"label\_28")

self.verticalLayout\_7.addWidget(self.label\_28)

self.horizontalLayout\_5.addLayout(self.verticalLayout\_7)

self.verticalLayout\_6 = QVBoxLayout()

self.verticalLayout\_6.setObjectName(u"verticalLayout\_6")

self.CRTMod1 = QLineEdit(self.layoutWidget3)

self.CRTMod1.setObjectName(u"CRTMod1")

self.verticalLayout\_6.addWidget(self.CRTMod1)

self.CRTMod2 = QLineEdit(self.layoutWidget3)

self.CRTMod2.setObjectName(u"CRTMod2")

self.verticalLayout\_6.addWidget(self.CRTMod2)

self.CRTMod3 = QLineEdit(self.layoutWidget3)

self.CRTMod3.setObjectName(u"CRTMod3")

self.verticalLayout\_6.addWidget(self.CRTMod3)

self.CRTMod4 = QLineEdit(self.layoutWidget3)

self.CRTMod4.setObjectName(u"CRTMod4")

self.verticalLayout\_6.addWidget(self.CRTMod4)

self.CRTMod5 = QLineEdit(self.layoutWidget3)

self.CRTMod5.setObjectName(u"CRTMod5")

self.verticalLayout\_6.addWidget(self.CRTMod5)

self.horizontalLayout\_5.addLayout(self.verticalLayout\_6)

self.horizontalLayout\_6.addLayout(self.horizontalLayout\_5)

self.verticalLayout\_10 = QVBoxLayout()

self.verticalLayout\_10.setObjectName(u"verticalLayout\_10")

self.label\_30 = QLabel(self.layoutWidget3)

self.label\_30.setObjectName(u"label\_30")

self.verticalLayout\_10.addWidget(self.label\_30)

self.label\_31 = QLabel(self.layoutWidget3)

self.label\_31.setObjectName(u"label\_31")

self.verticalLayout\_10.addWidget(self.label\_31)

self.CRTCalculateButton = QPushButton(self.layoutWidget3)

self.CRTCalculateButton.setObjectName(u"CRTCalculateButton")

self.verticalLayout\_10.addWidget(self.CRTCalculateButton)

self.horizontalLayout\_6.addLayout(self.verticalLayout\_10)

self.Tab.addTab(self.CRT, "")

self.EulerTheorem = QWidget()

self.EulerTheorem.setObjectName(u"EulerTheorem")

self.layoutWidget4 = QWidget(self.EulerTheorem)

self.layoutWidget4.setObjectName(u"layoutWidget4")

self.layoutWidget4.setGeometry(QRect(2, 3, 1001, 201))

self.verticalLayout\_12 = QVBoxLayout(self.layoutWidget4)

self.verticalLayout\_12.setObjectName(u"verticalLayout\_12")

self.verticalLayout\_12.setContentsMargins(0, 0, 0, 0)

self.horizontalLayout\_9 = QHBoxLayout()

self.horizontalLayout\_9.setObjectName(u"horizontalLayout\_9")

self.gridLayout\_7 = QGridLayout()

self.gridLayout\_7.setObjectName(u"gridLayout\_7")

self.label\_32 = QLabel(self.layoutWidget4)

self.label\_32.setObjectName(u"label\_32")

self.gridLayout\_7.addWidget(self.label\_32, 0, 0, 1, 1)

self.EulerTheoremAEditor = QLineEdit(self.layoutWidget4)

self.EulerTheoremAEditor.setObjectName(u"EulerTheoremAEditor")

self.gridLayout\_7.addWidget(self.EulerTheoremAEditor, 0, 1, 1, 1)

self.label\_33 = QLabel(self.layoutWidget4)

self.label\_33.setObjectName(u"label\_33")

self.gridLayout\_7.addWidget(self.label\_33, 1, 0, 1, 1)

self.EulerTheoremBEditor = QLineEdit(self.layoutWidget4)

self.EulerTheoremBEditor.setObjectName(u"EulerTheoremBEditor")

self.gridLayout\_7.addWidget(self.EulerTheoremBEditor, 1, 1, 1, 1)

self.horizontalLayout\_9.addLayout(self.gridLayout\_7)

self.horizontalLayout\_7 = QHBoxLayout()

self.horizontalLayout\_7.setObjectName(u"horizontalLayout\_7")

self.label\_34 = QLabel(self.layoutWidget4)

self.label\_34.setObjectName(u"label\_34")

self.horizontalLayout\_7.addWidget(self.label\_34)

self.EulerTheoremPEditor = QLineEdit(self.layoutWidget4)

self.EulerTheoremPEditor.setObjectName(u"EulerTheoremPEditor")

self.horizontalLayout\_7.addWidget(self.EulerTheoremPEditor)

self.horizontalLayout\_9.addLayout(self.horizontalLayout\_7)

self.verticalLayout\_12.addLayout(self.horizontalLayout\_9)

self.horizontalLayout\_8 = QHBoxLayout()

self.horizontalLayout\_8.setObjectName(u"horizontalLayout\_8")

self.label\_35 = QLabel(self.layoutWidget4)

self.label\_35.setObjectName(u"label\_35")

self.horizontalLayout\_8.addWidget(self.label\_35)

self.verticalLayout\_11 = QVBoxLayout()

self.verticalLayout\_11.setObjectName(u"verticalLayout\_11")

self.EulerTheoremRandomButton = QPushButton(self.layoutWidget4)

self.EulerTheoremRandomButton.setObjectName(u"EulerTheoremRandomButton")

self.verticalLayout\_11.addWidget(self.EulerTheoremRandomButton)

self.EulerTheoremCalculateButton = QPushButton(self.layoutWidget4)

self.EulerTheoremCalculateButton.setObjectName(u"EulerTheoremCalculateButton")

self.verticalLayout\_11.addWidget(self.EulerTheoremCalculateButton)

self.horizontalLayout\_8.addLayout(self.verticalLayout\_11)

self.verticalLayout\_12.addLayout(self.horizontalLayout\_8)

self.Tab.addTab(self.EulerTheorem, "")

self.CongruenceModEquation = QWidget()

self.CongruenceModEquation.setObjectName(u"CongruenceModEquation")

self.layoutWidget5 = QWidget(self.CongruenceModEquation)

self.layoutWidget5.setObjectName(u"layoutWidget5")

self.layoutWidget5.setGeometry(QRect(1, 1, 1001, 201))

self.verticalLayout\_16 = QVBoxLayout(self.layoutWidget5)

self.verticalLayout\_16.setObjectName(u"verticalLayout\_16")

self.verticalLayout\_16.setContentsMargins(0, 0, 0, 0)

self.horizontalLayout\_13 = QHBoxLayout()

self.horizontalLayout\_13.setObjectName(u"horizontalLayout\_13")

self.verticalLayout\_15 = QVBoxLayout()

self.verticalLayout\_15.setObjectName(u"verticalLayout\_15")

self.horizontalLayout\_10 = QHBoxLayout()

self.horizontalLayout\_10.setObjectName(u"horizontalLayout\_10")

self.label\_38 = QLabel(self.layoutWidget5)

self.label\_38.setObjectName(u"label\_38")

self.horizontalLayout\_10.addWidget(self.label\_38)

self.CongruenceModEquationAEditor = QLineEdit(self.layoutWidget5)

self.CongruenceModEquationAEditor.setObjectName(u"CongruenceModEquationAEditor")

self.horizontalLayout\_10.addWidget(self.CongruenceModEquationAEditor)

self.label\_39 = QLabel(self.layoutWidget5)

self.label\_39.setObjectName(u"label\_39")

self.horizontalLayout\_10.addWidget(self.label\_39)

self.CongruenceModEquationBEditor = QLineEdit(self.layoutWidget5)

self.CongruenceModEquationBEditor.setObjectName(u"CongruenceModEquationBEditor")

self.horizontalLayout\_10.addWidget(self.CongruenceModEquationBEditor)

self.label\_40 = QLabel(self.layoutWidget5)

self.label\_40.setObjectName(u"label\_40")

self.horizontalLayout\_10.addWidget(self.label\_40)

self.CongruenceModEquationMEditor = QLineEdit(self.layoutWidget5)

self.CongruenceModEquationMEditor.setObjectName(u"CongruenceModEquationMEditor")

self.horizontalLayout\_10.addWidget(self.CongruenceModEquationMEditor)

self.verticalLayout\_15.addLayout(self.horizontalLayout\_10)

self.horizontalLayout\_13.addLayout(self.verticalLayout\_15)

self.horizontalLayout\_11 = QHBoxLayout()

self.horizontalLayout\_11.setObjectName(u"horizontalLayout\_11")

self.label\_41 = QLabel(self.layoutWidget5)

self.label\_41.setObjectName(u"label\_41")

self.horizontalLayout\_11.addWidget(self.label\_41)

self.CongruenceModEquationNumEditor = QLineEdit(self.layoutWidget5)

self.CongruenceModEquationNumEditor.setObjectName(u"CongruenceModEquationNumEditor")

self.horizontalLayout\_11.addWidget(self.CongruenceModEquationNumEditor)

self.horizontalLayout\_13.addLayout(self.horizontalLayout\_11)

self.verticalLayout\_16.addLayout(self.horizontalLayout\_13)

self.horizontalLayout\_12 = QHBoxLayout()

self.horizontalLayout\_12.setObjectName(u"horizontalLayout\_12")

self.verticalLayout\_13 = QVBoxLayout()

self.verticalLayout\_13.setObjectName(u"verticalLayout\_13")

self.label\_36 = QLabel(self.layoutWidget5)

self.label\_36.setObjectName(u"label\_36")

self.verticalLayout\_13.addWidget(self.label\_36)

self.label\_37 = QLabel(self.layoutWidget5)

self.label\_37.setObjectName(u"label\_37")

self.verticalLayout\_13.addWidget(self.label\_37)

self.horizontalLayout\_12.addLayout(self.verticalLayout\_13)

self.verticalLayout\_14 = QVBoxLayout()

self.verticalLayout\_14.setObjectName(u"verticalLayout\_14")

self.CongruenceModEquationRandomButton = QPushButton(self.layoutWidget5)

self.CongruenceModEquationRandomButton.setObjectName(u"CongruenceModEquationRandomButton")

self.verticalLayout\_14.addWidget(self.CongruenceModEquationRandomButton)

self.CongruenceModEquationCalculateButton = QPushButton(self.layoutWidget5)

self.CongruenceModEquationCalculateButton.setObjectName(u"CongruenceModEquationCalculateButton")

self.verticalLayout\_14.addWidget(self.CongruenceModEquationCalculateButton)

self.horizontalLayout\_12.addLayout(self.verticalLayout\_14)

self.verticalLayout\_16.addLayout(self.horizontalLayout\_12)

self.Tab.addTab(self.CongruenceModEquation, "")

self.RSA = QWidget()

self.RSA.setObjectName(u"RSA")

self.layoutWidget6 = QWidget(self.RSA)

self.layoutWidget6.setObjectName(u"layoutWidget6")

self.layoutWidget6.setGeometry(QRect(0, 0, 1001, 201))

self.horizontalLayout\_17 = QHBoxLayout(self.layoutWidget6)

self.horizontalLayout\_17.setObjectName(u"horizontalLayout\_17")

self.horizontalLayout\_17.setContentsMargins(0, 0, 0, 0)

self.verticalLayout\_20 = QVBoxLayout()

self.verticalLayout\_20.setObjectName(u"verticalLayout\_20")

self.verticalLayout\_17 = QVBoxLayout()

self.verticalLayout\_17.setObjectName(u"verticalLayout\_17")

self.label\_44 = QLabel(self.layoutWidget6)

self.label\_44.setObjectName(u"label\_44")

self.verticalLayout\_17.addWidget(self.label\_44)

self.label\_50 = QLabel(self.layoutWidget6)

self.label\_50.setObjectName(u"label\_50")

self.verticalLayout\_17.addWidget(self.label\_50)

self.horizontalLayout\_14 = QHBoxLayout()

self.horizontalLayout\_14.setObjectName(u"horizontalLayout\_14")

self.label\_42 = QLabel(self.layoutWidget6)

self.label\_42.setObjectName(u"label\_42")

self.horizontalLayout\_14.addWidget(self.label\_42)

self.RSABitLenEditor = QLineEdit(self.layoutWidget6)

self.RSABitLenEditor.setObjectName(u"RSABitLenEditor")

self.horizontalLayout\_14.addWidget(self.RSABitLenEditor)

self.label\_43 = QLabel(self.layoutWidget6)

self.label\_43.setObjectName(u"label\_43")

self.horizontalLayout\_14.addWidget(self.label\_43)

self.RSAMethedComboBox = QComboBox(self.layoutWidget6)

self.RSAMethedComboBox.addItem("")

self.RSAMethedComboBox.addItem("")

self.RSAMethedComboBox.addItem("")

self.RSAMethedComboBox.setObjectName(u"RSAMethedComboBox")

self.horizontalLayout\_14.addWidget(self.RSAMethedComboBox)

self.verticalLayout\_17.addLayout(self.horizontalLayout\_14)

self.verticalLayout\_20.addLayout(self.verticalLayout\_17)

self.RSAGenerateButton = QPushButton(self.layoutWidget6)

self.RSAGenerateButton.setObjectName(u"RSAGenerateButton")

self.verticalLayout\_20.addWidget(self.RSAGenerateButton)

self.horizontalLayout\_17.addLayout(self.verticalLayout\_20)

self.verticalLayout\_21 = QVBoxLayout()

self.verticalLayout\_21.setObjectName(u"verticalLayout\_21")

self.label\_49 = QLabel(self.layoutWidget6)

self.label\_49.setObjectName(u"label\_49")

self.verticalLayout\_21.addWidget(self.label\_49)

self.verticalLayout\_19 = QVBoxLayout()

self.verticalLayout\_19.setObjectName(u"verticalLayout\_19")

self.horizontalLayout\_16 = QHBoxLayout()

self.horizontalLayout\_16.setObjectName(u"horizontalLayout\_16")

self.label\_45 = QLabel(self.layoutWidget6)

self.label\_45.setObjectName(u"label\_45")

self.horizontalLayout\_16.addWidget(self.label\_45)

self.label\_46 = QLabel(self.layoutWidget6)

self.label\_46.setObjectName(u"label\_46")

self.label\_46.setLayoutDirection(Qt.LeftToRight)

self.horizontalLayout\_16.addWidget(self.label\_46, 0, Qt.AlignRight)

self.verticalLayout\_19.addLayout(self.horizontalLayout\_16)

self.horizontalLayout\_15 = QHBoxLayout()

self.horizontalLayout\_15.setObjectName(u"horizontalLayout\_15")

self.RSAPlaintextEdit = QTextEdit(self.layoutWidget6)

self.RSAPlaintextEdit.setObjectName(u"RSAPlaintextEdit")

self.horizontalLayout\_15.addWidget(self.RSAPlaintextEdit)

self.verticalLayout\_18 = QVBoxLayout()

self.verticalLayout\_18.setObjectName(u"verticalLayout\_18")

self.label\_47 = QLabel(self.layoutWidget6)

self.label\_47.setObjectName(u"label\_47")

self.verticalLayout\_18.addWidget(self.label\_47)

self.label\_48 = QLabel(self.layoutWidget6)

self.label\_48.setObjectName(u"label\_48")

self.verticalLayout\_18.addWidget(self.label\_48)

self.horizontalLayout\_15.addLayout(self.verticalLayout\_18)

self.RSACryptotextEdit = QTextEdit(self.layoutWidget6)

self.RSACryptotextEdit.setObjectName(u"RSACryptotextEdit")

self.horizontalLayout\_15.addWidget(self.RSACryptotextEdit)

self.verticalLayout\_19.addLayout(self.horizontalLayout\_15)

self.verticalLayout\_21.addLayout(self.verticalLayout\_19)

self.RSACryptoButton = QPushButton(self.layoutWidget6)

self.RSACryptoButton.setObjectName(u"RSACryptoButton")

self.verticalLayout\_21.addWidget(self.RSACryptoButton)

self.horizontalLayout\_17.addLayout(self.verticalLayout\_21)

self.Tab.addTab(self.RSA, "")

self.WebView = QWebEngineView(self.centralwidget)

self.WebView.setObjectName(u"WebView")

self.WebView.setGeometry(QRect(-1, 229, 1011, 601))

MainWindow.setCentralWidget(self.centralwidget)

self.statusbar = QStatusBar(MainWindow)

self.statusbar.setObjectName(u"statusbar")

MainWindow.setStatusBar(self.statusbar)

self.retranslateUi(MainWindow)

self.Tab.setCurrentIndex(6)

QMetaObject.connectSlotsByName(MainWindow)

def retranslateUi(self, MainWindow):

MainWindow.setWindowTitle(QCoreApplication.translate("MainWindow", u"\u6570\u8bba\u4e13\u7528\u8ba1\u7b97\u5e73\u53f0", None))

self.label\_5.setText(QCoreApplication.translate("MainWindow", u"a", None))

self.label\_6.setText(QCoreApplication.translate("MainWindow", u"b", None))

self.label.setText(QCoreApplication.translate("MainWindow", u"\u6700\u5c0f\u503c\uff08a\uff09", None))

self.label\_4.setText(QCoreApplication.translate("MainWindow", u"\u6700\u5927\u503c\uff08a\uff09", None))

self.label\_2.setText(QCoreApplication.translate("MainWindow", u"\u6700\u5c0f\u503c\uff08b\uff09", None))

self.label\_3.setText(QCoreApplication.translate("MainWindow", u"\u6700\u5927\u503c\uff08b\uff09", None))

self.ExtendedEuclideanCalculateButton.setText(QCoreApplication.translate("MainWindow", u"\u8ba1\u7b97", None))

self.ExtendedEuclideanRandomButton.setText(QCoreApplication.translate("MainWindow", u"\u968f\u673a", None))

self.ExtendedEuclidean\_1\_Button.setText(QCoreApplication.translate("MainWindow", u"\u9006\u5143", None))

self.Tab.setTabText(self.Tab.indexOf(self.ExtendedEuclidean), QCoreApplication.translate("MainWindow", u"\u6269\u5c55\u6b27\u51e0\u91cc\u5f97\u7b97\u6cd5", None))

self.label\_7.setText(QCoreApplication.translate("MainWindow", u"(", None))

self.label\_8.setText(QCoreApplication.translate("MainWindow", u")^(", None))

self.label\_9.setText(QCoreApplication.translate("MainWindow", u") mod ", None))

self.PowerModRandomButton.setText(QCoreApplication.translate("MainWindow", u"\u968f\u673a", None))

self.PowerModCalculateButton.setText(QCoreApplication.translate("MainWindow", u"\u8ba1\u7b97", None))

self.Tab.setTabText(self.Tab.indexOf(self.PowerMod), QCoreApplication.translate("MainWindow", u"\u6a21\u5927\u6570\u5e42\u4e58", None))

self.label\_13.setText(QCoreApplication.translate("MainWindow", u"(", None))

self.label\_11.setText(QCoreApplication.translate("MainWindow", u"a", None))

self.label\_10.setText(QCoreApplication.translate("MainWindow", u"m", None))

self.label\_12.setText(QCoreApplication.translate("MainWindow", u")=(", None))

self.label\_15.setText(QCoreApplication.translate("MainWindow", u")", None))

self.label\_17.setText(QCoreApplication.translate("MainWindow", u"\u6700\u5c0f\u503c\uff08a\uff09", None))

self.label\_14.setText(QCoreApplication.translate("MainWindow", u"\u6700\u5927\u503c\uff08a\uff09", None))

self.label\_18.setText(QCoreApplication.translate("MainWindow", u"\u6700\u5c0f\u503c\uff08b\uff09", None))

self.label\_16.setText(QCoreApplication.translate("MainWindow", u"\u6700\u5927\u503c\uff08b\uff09", None))

self.JacobiLegendreCheckBox.setText(QCoreApplication.translate("MainWindow", u"\u8981\u6c42\u4e3aLegendre\u7b26\u53f7", None))

self.JacobiRandomPushButton.setText(QCoreApplication.translate("MainWindow", u"\u968f\u673a", None))

self.JacobiCalculatePushButton.setText(QCoreApplication.translate("MainWindow", u"\u8ba1\u7b97", None))

self.Tab.setTabText(self.Tab.indexOf(self.Jacobi), QCoreApplication.translate("MainWindow", u"Jacobi\u7b26\u53f7", None))

self.label\_29.setText("")

self.label\_19.setText(QCoreApplication.translate("MainWindow", u"X", None))

self.label\_21.setText(QCoreApplication.translate("MainWindow", u"X", None))

self.label\_23.setText(QCoreApplication.translate("MainWindow", u"X", None))

self.label\_25.setText(QCoreApplication.translate("MainWindow", u"X", None))

self.label\_27.setText(QCoreApplication.translate("MainWindow", u"X", None))

self.label\_20.setText(QCoreApplication.translate("MainWindow", u"= mod", None))

self.label\_22.setText(QCoreApplication.translate("MainWindow", u"= mod", None))

self.label\_24.setText(QCoreApplication.translate("MainWindow", u"= mod", None))

self.label\_26.setText(QCoreApplication.translate("MainWindow", u"= mod", None))

self.label\_28.setText(QCoreApplication.translate("MainWindow", u"= mod", None))

self.label\_30.setText(QCoreApplication.translate("MainWindow", u"\u5982\u679c\u8be5\u884c\u4e0d\u9700\u8981", None))

self.label\_31.setText(QCoreApplication.translate("MainWindow", u"\u8bf7\u5728\u524d\u540e\u90fd\u8f93\u5165-1", None))

self.CRTCalculateButton.setText(QCoreApplication.translate("MainWindow", u"\u8ba1\u7b97", None))

self.Tab.setTabText(self.Tab.indexOf(self.CRT), QCoreApplication.translate("MainWindow", u"\u5b59\u5b50\u5b9a\u7406", None))

self.label\_32.setText(QCoreApplication.translate("MainWindow", u"a", None))

self.EulerTheoremAEditor.setText("")

self.label\_33.setText(QCoreApplication.translate("MainWindow", u"b", None))

self.label\_34.setText(QCoreApplication.translate("MainWindow", u"p", None))

self.label\_35.setText(QCoreApplication.translate("MainWindow", u"\u4f7f\u7528\u6b27\u62c9\u5b9a\u7406\u8ba1\u7b97a^b mod p", None))

self.EulerTheoremRandomButton.setText(QCoreApplication.translate("MainWindow", u"\u968f\u673a", None))

self.EulerTheoremCalculateButton.setText(QCoreApplication.translate("MainWindow", u"\u8ba1\u7b97", None))

self.Tab.setTabText(self.Tab.indexOf(self.EulerTheorem), QCoreApplication.translate("MainWindow", u"\u6b27\u62c9\u5b9a\u7406", None))

self.label\_38.setText(QCoreApplication.translate("MainWindow", u"a", None))

self.label\_39.setText(QCoreApplication.translate("MainWindow", u"b", None))

self.label\_40.setText(QCoreApplication.translate("MainWindow", u"m", None))

self.label\_41.setText(QCoreApplication.translate("MainWindow", u"\u89e3\u7684\u4e2a\u6570", None))

self.label\_36.setText(QCoreApplication.translate("MainWindow", u"\u6761\u4ef6\u8bf4\u660e", None))

self.label\_37.setText(QCoreApplication.translate("MainWindow", u"\u4ece ax=b(mod m) \u8ba1\u7b97\u51fa x=value(mod m)", None))

self.CongruenceModEquationRandomButton.setText(QCoreApplication.translate("MainWindow", u"\u968f\u673a(\u4e0d\u6539\u53d8\u89e3\u7684\u4e2a\u6570)", None))

self.CongruenceModEquationCalculateButton.setText(QCoreApplication.translate("MainWindow", u"\u8ba1\u7b97", None))

self.Tab.setTabText(self.Tab.indexOf(self.CongruenceModEquation), QCoreApplication.translate("MainWindow", u"\u7ebf\u6027\u540c\u4f59\u65b9\u7a0b", None))

self.label\_44.setText(QCoreApplication.translate("MainWindow", u"RSA\u6a21\u5757", None))

self.label\_50.setText(QCoreApplication.translate("MainWindow", u"\u8bf7\u5148\u751f\u6210RSA\u79d8\u94a5\u540e\u8f93\u5165\u660e\u6587\u8fdb\u884c\u52a0\u89e3\u5bc6\u6d4b\u8bd5", None))

self.label\_42.setText(QCoreApplication.translate("MainWindow", u"\u751f\u6210\u7d20\u6570\u7684\u4f4d\u6570", None))

self.label\_43.setText(QCoreApplication.translate("MainWindow", u"\u751f\u6210\u7d20\u6570\u7684\u65b9\u6cd5", None))

self.RSAMethedComboBox.setItemText(0, QCoreApplication.translate("MainWindow", u"SS", None))

self.RSAMethedComboBox.setItemText(1, QCoreApplication.translate("MainWindow", u"MR", None))

self.RSAMethedComboBox.setItemText(2, QCoreApplication.translate("MainWindow", u"FM", None))

self.RSAGenerateButton.setText(QCoreApplication.translate("MainWindow", u"\u751f\u6210RSA\u79d8\u94a5", None))

self.label\_49.setText(QCoreApplication.translate("MainWindow", u"RSA\u52a0\u89e3\u5bc6", None))

self.label\_45.setText(QCoreApplication.translate("MainWindow", u"\u660e\u6587", None))

self.label\_46.setText(QCoreApplication.translate("MainWindow", u"\u5bc6\u6587", None))

self.label\_47.setText(QCoreApplication.translate("MainWindow", u"->", None))

self.label\_48.setText(QCoreApplication.translate("MainWindow", u"<-", None))

self.RSACryptoButton.setText(QCoreApplication.translate("MainWindow", u"\u8ba1\u7b97\u52a0\u89e3\u5bc6", None))

self.Tab.setTabText(self.Tab.indexOf(self.RSA), QCoreApplication.translate("MainWindow", u"RSA\u7684\u751f\u6210\u548c\u8ba1\u7b97", None))

katex.min.js

! function (t, e) {

"object" == typeof exports && "object" == typeof module ? module.exports = e() : "function" == typeof define && define.amd ? define([], e) : "object" == typeof exports ? exports.katex = e() : t.katex = e()

}("undefined" != typeof self ? self : this, function () {

return function (t) {

var e = {};

function r(a) {

if (e[a]) return e[a].exports;

var n = e[a] = {

i: a,

l: !1,

exports: {}

};

return t[a].call(n.exports, n, n.exports, r), n.l = !0, n.exports

}

return r.m = t, r.c = e, r.d = function (t, e, a) {

r.o(t, e) || Object.defineProperty(t, e, {

enumerable: !0,

get: a

})

}, r.r = function (t) {

"undefined" != typeof Symbol && Symbol.toStringTag && Object.defineProperty(t, Symbol.toStringTag, {

value: "Module"

}), Object.defineProperty(t, "\_\_esModule", {

value: !0

})

}, r.t = function (t, e) {

if (1 & e && (t = r(t)), 8 & e) return t;

if (4 & e && "object" == typeof t && t && t.\_\_esModule) return t;

var a = Object.create(null);

if (r.r(a), Object.defineProperty(a, "default", {

enumerable: !0,

value: t

}), 2 & e && "string" != typeof t)

for (var n in t) r.d(a, n, function (e) {

return t[e]

}.bind(null, n));

return a

}, r.n = function (t) {

var e = t && t.\_\_esModule ? function () {

return t.default

} : function () {

return t

};

return r.d(e, "a", e), e

}, r.o = function (t, e) {

return Object.prototype.hasOwnProperty.call(t, e)

}, r.p = "", r(r.s = 1)

}([function (t, e, r) {}, function (t, e, r) {

"use strict";

r.r(e);

r(0);

var a = function () {

function t(t, e, r) {

this.lexer = void 0, this.start = void 0, this.end = void 0, this.lexer = t, this.start = e, this.end = r

}

return t.range = function (e, r) {

return r ? e && e.loc && r.loc && e.loc.lexer === r.loc.lexer ? new t(e.loc.lexer, e.loc.start, r.loc.end) : null : e && e.loc

}, t

}(),

n = function () {

function t(t, e) {

this.text = void 0, this.loc = void 0, this.text = t, this.loc = e

}

return t.prototype.range = function (e, r) {

return new t(r, a.range(this, e))

}, t

}(),

i = function t(e, r) {

this.position = void 0;

var a, n = "KaTeX parse error: " + e,

i = r && r.loc;

if (i && i.start <= i.end) {

var o = i.lexer.input;

a = i.start;

var s = i.end;

a === o.length ? n += " at end of input: " : n += " at position " + (a + 1) + ": ";

var h = o.slice(a, s).replace(/[^]/g, "$&\u0332");

n += (a > 15 ? "\u2026" + o.slice(a - 15, a) : o.slice(0, a)) + h + (s + 15 < o.length ? o.slice(s, s + 15) + "\u2026" : o.slice(s))

}

var l = new Error(n);

return l.name = "ParseError", l.\_\_proto\_\_ = t.prototype, l.position = a, l

};

i.prototype.\_\_proto\_\_ = Error.prototype;

var o = i,

s = /([A-Z])/g,

h = {

"&": "&amp;",

">": "&gt;",

"<": "&lt;",

'"': "&quot;",

"'": "&#x27;"

},

l = /[&><"']/g;

var m = function t(e) {

return "ordgroup" === e.type ? 1 === e.body.length ? t(e.body[0]) : e : "color" === e.type ? 1 === e.body.length ? t(e.body[0]) : e : "font" === e.type ? t(e.body) : e

},

c = {

contains: function (t, e) {

return -1 !== t.indexOf(e)

},

deflt: function (t, e) {

return void 0 === t ? e : t

},

escape: function (t) {

return String(t).replace(l, function (t) {

return h[t]

})

},

hyphenate: function (t) {

return t.replace(s, "-$1").toLowerCase()

},

getBaseElem: m,

isCharacterBox: function (t) {

var e = m(t);

return "mathord" === e.type || "textord" === e.type || "atom" === e.type

},

protocolFromUrl: function (t) {

var e = /^\s\*([^\\\/#]\*?)(?::|&#0\*58|&#x0\*3a)/i.exec(t);

return null != e ? e[1] : "\_relative"

}

},

u = function () {

function t(t) {

this.displayMode = void 0, this.output = void 0, this.leqno = void 0, this.fleqn = void 0, this.throwOnError = void 0, this.errorColor = void 0, this.macros = void 0, this.minRuleThickness = void 0, this.colorIsTextColor = void 0, this.strict = void 0, this.trust = void 0, this.maxSize = void 0, this.maxExpand = void 0, t = t || {}, this.displayMode = c.deflt(t.displayMode, !1), this.output = c.deflt(t.output, "htmlAndMathml"), this.leqno = c.deflt(t.leqno, !1), this.fleqn = c.deflt(t.fleqn, !1), this.throwOnError = c.deflt(t.throwOnError, !0), this.errorColor = c.deflt(t.errorColor, "#cc0000"), this.macros = t.macros || {}, this.minRuleThickness = Math.max(0, c.deflt(t.minRuleThickness, 0)), this.colorIsTextColor = c.deflt(t.colorIsTextColor, !1), this.strict = c.deflt(t.strict, "warn"), this.trust = c.deflt(t.trust, !1), this.maxSize = Math.max(0, c.deflt(t.maxSize, 1 / 0)), this.maxExpand = Math.max(0, c.deflt(t.maxExpand, 1e3))

}

var e = t.prototype;

return e.reportNonstrict = function (t, e, r) {

var a = this.strict;

if ("function" == typeof a && (a = a(t, e, r)), a && "ignore" !== a) {

if (!0 === a || "error" === a) throw new o("LaTeX-incompatible input and strict mode is set to 'error': " + e + " [" + t + "]", r);

"warn" === a ? "undefined" != typeof console && console.warn("LaTeX-incompatible input and strict mode is set to 'warn': " + e + " [" + t + "]") : "undefined" != typeof console && console.warn("LaTeX-incompatible input and strict mode is set to unrecognized '" + a + "': " + e + " [" + t + "]")

}

}, e.useStrictBehavior = function (t, e, r) {

var a = this.strict;

if ("function" == typeof a) try {

a = a(t, e, r)

} catch (t) {

a = "error"

}

return !(!a || "ignore" === a) && (!0 === a || "error" === a || ("warn" === a ? ("undefined" != typeof console && console.warn("LaTeX-incompatible input and strict mode is set to 'warn': " + e + " [" + t + "]"), !1) : ("undefined" != typeof console && console.warn("LaTeX-incompatible input and strict mode is set to unrecognized '" + a + "': " + e + " [" + t + "]"), !1)))

}, e.isTrusted = function (t) {

t.url && !t.protocol && (t.protocol = c.protocolFromUrl(t.url));

var e = "function" == typeof this.trust ? this.trust(t) : this.trust;

return Boolean(e)

}, t

}(),

p = function () {

function t(t, e, r) {

this.id = void 0, this.size = void 0, this.cramped = void 0, this.id = t, this.size = e, this.cramped = r

}

var e = t.prototype;

return e.sup = function () {

return d[f[this.id]]

}, e.sub = function () {

return d[g[this.id]]

}, e.fracNum = function () {

return d[x[this.id]]

}, e.fracDen = function () {

return d[v[this.id]]

}, e.cramp = function () {

return d[b[this.id]]

}, e.text = function () {

return d[y[this.id]]

}, e.isTight = function () {

return this.size >= 2

}, t

}(),

d = [new p(0, 0, !1), new p(1, 0, !0), new p(2, 1, !1), new p(3, 1, !0), new p(4, 2, !1), new p(5, 2, !0), new p(6, 3, !1), new p(7, 3, !0)],

f = [4, 5, 4, 5, 6, 7, 6, 7],

g = [5, 5, 5, 5, 7, 7, 7, 7],

x = [2, 3, 4, 5, 6, 7, 6, 7],

v = [3, 3, 5, 5, 7, 7, 7, 7],

b = [1, 1, 3, 3, 5, 5, 7, 7],

y = [0, 1, 2, 3, 2, 3, 2, 3],

w = {

DISPLAY: d[0],

TEXT: d[2],

SCRIPT: d[4],

SCRIPTSCRIPT: d[6]

},

k = [{

name: "latin",

blocks: [

[256, 591],

[768, 879]

]

}, {

name: "cyrillic",

blocks: [

[1024, 1279]

]

}, {

name: "brahmic",

blocks: [

[2304, 4255]

]

}, {

name: "georgian",

blocks: [

[4256, 4351]

]

}, {

name: "cjk",

blocks: [

[12288, 12543],

[19968, 40879],

[65280, 65376]

]

}, {

name: "hangul",

blocks: [

[44032, 55215]

]

}];

var S = [];

function M(t) {

for (var e = 0; e < S.length; e += 2)

if (t >= S[e] && t <= S[e + 1]) return !0;

return !1

}

k.forEach(function (t) {

return t.blocks.forEach(function (t) {

return S.push.apply(S, t)

})

});

var z = {

doubleleftarrow: "M262 157\nl10-10c34-36 62.7-77 86-123 3.3-8 5-13.3 5-16 0-5.3-6.7-8-20-8-7.3\n 0-12.2.5-14.5 1.5-2.3 1-4.8 4.5-7.5 10.5-49.3 97.3-121.7 169.3-217 216-28\n 14-57.3 25-88 33-6.7 2-11 3.8-13 5.5-2 1.7-3 4.2-3 7.5s1 5.8 3 7.5\nc2 1.7 6.3 3.5 13 5.5 68 17.3 128.2 47.8 180.5 91.5 52.3 43.7 93.8 96.2 124.5\n 157.5 9.3 8 15.3 12.3 18 13h6c12-.7 18-4 18-10 0-2-1.7-7-5-15-23.3-46-52-87\n-86-123l-10-10h399738v-40H218c328 0 0 0 0 0l-10-8c-26.7-20-65.7-43-117-69 2.7\n-2 6-3.7 10-5 36.7-16 72.3-37.3 107-64l10-8h399782v-40z\nm8 0v40h399730v-40zm0 194v40h399730v-40z",

doublerightarrow: "M399738 392l\n-10 10c-34 36-62.7 77-86 123-3.3 8-5 13.3-5 16 0 5.3 6.7 8 20 8 7.3 0 12.2-.5\n 14.5-1.5 2.3-1 4.8-4.5 7.5-10.5 49.3-97.3 121.7-169.3 217-216 28-14 57.3-25 88\n-33 6.7-2 11-3.8 13-5.5 2-1.7 3-4.2 3-7.5s-1-5.8-3-7.5c-2-1.7-6.3-3.5-13-5.5-68\n-17.3-128.2-47.8-180.5-91.5-52.3-43.7-93.8-96.2-124.5-157.5-9.3-8-15.3-12.3-18\n-13h-6c-12 .7-18 4-18 10 0 2 1.7 7 5 15 23.3 46 52 87 86 123l10 10H0v40h399782\nc-328 0 0 0 0 0l10 8c26.7 20 65.7 43 117 69-2.7 2-6 3.7-10 5-36.7 16-72.3 37.3\n-107 64l-10 8H0v40zM0 157v40h399730v-40zm0 194v40h399730v-40z",

leftarrow: "M400000 241H110l3-3c68.7-52.7 113.7-120\n 135-202 4-14.7 6-23 6-25 0-7.3-7-11-21-11-8 0-13.2.8-15.5 2.5-2.3 1.7-4.2 5.8\n-5.5 12.5-1.3 4.7-2.7 10.3-4 17-12 48.7-34.8 92-68.5 130S65.3 228.3 18 247\nc-10 4-16 7.7-18 11 0 8.7 6 14.3 18 17 47.3 18.7 87.8 47 121.5 85S196 441.3 208\n 490c.7 2 1.3 5 2 9s1.2 6.7 1.5 8c.3 1.3 1 3.3 2 6s2.2 4.5 3.5 5.5c1.3 1 3.3\n 1.8 6 2.5s6 1 10 1c14 0 21-3.7 21-11 0-2-2-10.3-6-25-20-79.3-65-146.7-135-202\n l-3-3h399890zM100 241v40h399900v-40z",

leftbrace: "M6 548l-6-6v-35l6-11c56-104 135.3-181.3 238-232 57.3-28.7 117\n-45 179-50h399577v120H403c-43.3 7-81 15-113 26-100.7 33-179.7 91-237 174-2.7\n 5-6 9-10 13-.7 1-7.3 1-20 1H6z",

leftbraceunder: "M0 6l6-6h17c12.688 0 19.313.3 20 1 4 4 7.313 8.3 10 13\n 35.313 51.3 80.813 93.8 136.5 127.5 55.688 33.7 117.188 55.8 184.5 66.5.688\n 0 2 .3 4 1 18.688 2.7 76 4.3 172 5h399450v120H429l-6-1c-124.688-8-235-61.7\n-331-161C60.687 138.7 32.312 99.3 7 54L0 41V6z",

leftgroup: "M400000 80\nH435C64 80 168.3 229.4 21 260c-5.9 1.2-18 0-18 0-2 0-3-1-3-3v-38C76 61 257 0\n 435 0h399565z",

leftgroupunder: "M400000 262\nH435C64 262 168.3 112.6 21 82c-5.9-1.2-18 0-18 0-2 0-3 1-3 3v38c76 158 257 219\n 435 219h399565z",

leftharpoon: "M0 267c.7 5.3 3 10 7 14h399993v-40H93c3.3\n-3.3 10.2-9.5 20.5-18.5s17.8-15.8 22.5-20.5c50.7-52 88-110.3 112-175 4-11.3 5\n-18.3 3-21-1.3-4-7.3-6-18-6-8 0-13 .7-15 2s-4.7 6.7-8 16c-42 98.7-107.3 174.7\n-196 228-6.7 4.7-10.7 8-12 10-1.3 2-2 5.7-2 11zm100-26v40h399900v-40z",

leftharpoonplus: "M0 267c.7 5.3 3 10 7 14h399993v-40H93c3.3-3.3 10.2-9.5\n 20.5-18.5s17.8-15.8 22.5-20.5c50.7-52 88-110.3 112-175 4-11.3 5-18.3 3-21-1.3\n-4-7.3-6-18-6-8 0-13 .7-15 2s-4.7 6.7-8 16c-42 98.7-107.3 174.7-196 228-6.7 4.7\n-10.7 8-12 10-1.3 2-2 5.7-2 11zm100-26v40h399900v-40zM0 435v40h400000v-40z\nm0 0v40h400000v-40z",

leftharpoondown: "M7 241c-4 4-6.333 8.667-7 14 0 5.333.667 9 2 11s5.333\n 5.333 12 10c90.667 54 156 130 196 228 3.333 10.667 6.333 16.333 9 17 2 .667 5\n 1 9 1h5c10.667 0 16.667-2 18-6 2-2.667 1-9.667-3-21-32-87.333-82.667-157.667\n-152-211l-3-3h399907v-40zM93 281 H400000 v-40L7 241z",

leftharpoondownplus: "M7 435c-4 4-6.3 8.7-7 14 0 5.3.7 9 2 11s5.3 5.3 12\n 10c90.7 54 156 130 196 228 3.3 10.7 6.3 16.3 9 17 2 .7 5 1 9 1h5c10.7 0 16.7\n-2 18-6 2-2.7 1-9.7-3-21-32-87.3-82.7-157.7-152-211l-3-3h399907v-40H7zm93 0\nv40h399900v-40zM0 241v40h399900v-40zm0 0v40h399900v-40z",

lefthook: "M400000 281 H103s-33-11.2-61-33.5S0 197.3 0 164s14.2-61.2 42.5\n-83.5C70.8 58.2 104 47 142 47 c16.7 0 25 6.7 25 20 0 12-8.7 18.7-26 20-40 3.3\n-68.7 15.7-86 37-10 12-15 25.3-15 40 0 22.7 9.8 40.7 29.5 54 19.7 13.3 43.5 21\n 71.5 23h399859zM103 281v-40h399897v40z",

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leftmapsto: "M40 281 V448H0V74H40V241H400000v40z\nM40 281 V448H0V74H40V241H400000v40z",

leftToFrom: "M0 147h400000v40H0zm0 214c68 40 115.7 95.7 143 167h22c15.3 0 23\n-.3 23-1 0-1.3-5.3-13.7-16-37-18-35.3-41.3-69-70-101l-7-8h399905v-40H95l7-8\nc28.7-32 52-65.7 70-101 10.7-23.3 16-35.7 16-37 0-.7-7.7-1-23-1h-22C115.7 265.3\n 68 321 0 361zm0-174v-40h399900v40zm100 154v40h399900v-40z",

longequal: "M0 50 h400000 v40H0z m0 194h40000v40H0z\nM0 50 h400000 v40H0z m0 194h40000v40H0z",

midbrace: "M200428 334\nc-100.7-8.3-195.3-44-280-108-55.3-42-101.7-93-139-153l-9-14c-2.7 4-5.7 8.7-9 14\n-53.3 86.7-123.7 153-211 199-66.7 36-137.3 56.3-212 62H0V214h199568c178.3-11.7\n 311.7-78.3 403-201 6-8 9.7-12 11-12 .7-.7 6.7-1 18-1s17.3.3 18 1c1.3 0 5 4 11\n 12 44.7 59.3 101.3 106.3 170 141s145.3 54.3 229 60h199572v120z",

midbraceunder: "M199572 214\nc100.7 8.3 195.3 44 280 108 55.3 42 101.7 93 139 153l9 14c2.7-4 5.7-8.7 9-14\n 53.3-86.7 123.7-153 211-199 66.7-36 137.3-56.3 212-62h199568v120H200432c-178.3\n 11.7-311.7 78.3-403 201-6 8-9.7 12-11 12-.7.7-6.7 1-18 1s-17.3-.3-18-1c-1.3 0\n-5-4-11-12-44.7-59.3-101.3-106.3-170-141s-145.3-54.3-229-60H0V214z",

oiintSize1: "M512.6 71.6c272.6 0 320.3 106.8 320.3 178.2 0 70.8-47.7 177.6\n-320.3 177.6S193.1 320.6 193.1 249.8c0-71.4 46.9-178.2 319.5-178.2z\nm368.1 178.2c0-86.4-60.9-215.4-368.1-215.4-306.4 0-367.3 129-367.3 215.4 0 85.8\n60.9 214.8 367.3 214.8 307.2 0 368.1-129 368.1-214.8z",

oiintSize2: "M757.8 100.1c384.7 0 451.1 137.6 451.1 230 0 91.3-66.4 228.8\n-451.1 228.8-386.3 0-452.7-137.5-452.7-228.8 0-92.4 66.4-230 452.7-230z\nm502.4 230c0-111.2-82.4-277.2-502.4-277.2s-504 166-504 277.2\nc0 110 84 276 504 276s502.4-166 502.4-276z",

oiiintSize1: "M681.4 71.6c408.9 0 480.5 106.8 480.5 178.2 0 70.8-71.6 177.6\n-480.5 177.6S202.1 320.6 202.1 249.8c0-71.4 70.5-178.2 479.3-178.2z\nm525.8 178.2c0-86.4-86.8-215.4-525.7-215.4-437.9 0-524.7 129-524.7 215.4 0\n85.8 86.8 214.8 524.7 214.8 438.9 0 525.7-129 525.7-214.8z",

oiiintSize2: "M1021.2 53c603.6 0 707.8 165.8 707.8 277.2 0 110-104.2 275.8\n-707.8 275.8-606 0-710.2-165.8-710.2-275.8C311 218.8 415.2 53 1021.2 53z\nm770.4 277.1c0-131.2-126.4-327.6-770.5-327.6S248.4 198.9 248.4 330.1\nc0 130 128.8 326.4 772.7 326.4s770.5-196.4 770.5-326.4z",

rightarrow: "M0 241v40h399891c-47.3 35.3-84 78-110 128\n-16.7 32-27.7 63.7-33 95 0 1.3-.2 2.7-.5 4-.3 1.3-.5 2.3-.5 3 0 7.3 6.7 11 20\n 11 8 0 13.2-.8 15.5-2.5 2.3-1.7 4.2-5.5 5.5-11.5 2-13.3 5.7-27 11-41 14.7-44.7\n 39-84.5 73-119.5s73.7-60.2 119-75.5c6-2 9-5.7 9-11s-3-9-9-11c-45.3-15.3-85\n-40.5-119-75.5s-58.3-74.8-73-119.5c-4.7-14-8.3-27.3-11-40-1.3-6.7-3.2-10.8-5.5\n-12.5-2.3-1.7-7.5-2.5-15.5-2.5-14 0-21 3.7-21 11 0 2 2 10.3 6 25 20.7 83.3 67\n 151.7 139 205zm0 0v40h399900v-40z",

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rightgroup: "M0 80h399565c371 0 266.7 149.4 414 180 5.9 1.2 18 0 18 0 2 0\n 3-1 3-3v-38c-76-158-257-219-435-219H0z",

rightgroupunder: "M0 262h399565c371 0 266.7-149.4 414-180 5.9-1.2 18 0 18\n 0 2 0 3 1 3 3v38c-76 158-257 219-435 219H0z",

rightharpoon: "M0 241v40h399993c4.7-4.7 7-9.3 7-14 0-9.3\n-3.7-15.3-11-18-92.7-56.7-159-133.7-199-231-3.3-9.3-6-14.7-8-16-2-1.3-7-2-15-2\n-10.7 0-16.7 2-18 6-2 2.7-1 9.7 3 21 15.3 42 36.7 81.8 64 119.5 27.3 37.7 58\n 69.2 92 94.5zm0 0v40h399900v-40z",

rightharpoonplus: "M0 241v40h399993c4.7-4.7 7-9.3 7-14 0-9.3-3.7-15.3-11\n-18-92.7-56.7-159-133.7-199-231-3.3-9.3-6-14.7-8-16-2-1.3-7-2-15-2-10.7 0-16.7\n 2-18 6-2 2.7-1 9.7 3 21 15.3 42 36.7 81.8 64 119.5 27.3 37.7 58 69.2 92 94.5z\nm0 0v40h399900v-40z m100 194v40h399900v-40zm0 0v40h399900v-40z",

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rightharpoondownplus: "M399747 705c0 7.3 6.7 11 20 11 8 0 13-.8\n 15-2.5s4.7-6.8 8-15.5c40-94 99.3-166.3 178-217 13.3-8 20.3-12.3 21-13 5.3-3.3\n 8.5-5.8 9.5-7.5 1-1.7 1.5-5.2 1.5-10.5s-2.3-10.3-7-15H0v40h399908c-34 25.3\n-64.7 57-92 95-27.3 38-48.7 77.7-64 119-3.3 8.7-5 14-5 16zM0 435v40h399900v-40z\nm0-194v40h400000v-40zm0 0v40h400000v-40z",

righthook: "M399859 241c-764 0 0 0 0 0 40-3.3 68.7-15.7 86-37 10-12 15-25.3\n 15-40 0-22.7-9.8-40.7-29.5-54-19.7-13.3-43.5-21-71.5-23-17.3-1.3-26-8-26-20 0\n-13.3 8.7-20 26-20 38 0 71 11.2 99 33.5 0 0 7 5.6 21 16.7 14 11.2 21 33.5 21\n 66.8s-14 61.2-42 83.5c-28 22.3-61 33.5-99 33.5L0 241z M0 281v-40h399859v40z",

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twoheadleftarrow: "M0 167c68 40\n 115.7 95.7 143 167h22c15.3 0 23-.3 23-1 0-1.3-5.3-13.7-16-37-18-35.3-41.3-69\n-70-101l-7-8h125l9 7c50.7 39.3 85 86 103 140h46c0-4.7-6.3-18.7-19-42-18-35.3\n-40-67.3-66-96l-9-9h399716v-40H284l9-9c26-28.7 48-60.7 66-96 12.7-23.333 19\n-37.333 19-42h-46c-18 54-52.3 100.7-103 140l-9 7H95l7-8c28.7-32 52-65.7 70-101\n 10.7-23.333 16-35.7 16-37 0-.7-7.7-1-23-1h-22C115.7 71.3 68 127 0 167z",

twoheadrightarrow: "M400000 167\nc-68-40-115.7-95.7-143-167h-22c-15.3 0-23 .3-23 1 0 1.3 5.3 13.7 16 37 18 35.3\n 41.3 69 70 101l7 8h-125l-9-7c-50.7-39.3-85-86-103-140h-46c0 4.7 6.3 18.7 19 42\n 18 35.3 40 67.3 66 96l9 9H0v40h399716l-9 9c-26 28.7-48 60.7-66 96-12.7 23.333\n-19 37.333-19 42h46c18-54 52.3-100.7 103-140l9-7h125l-7 8c-28.7 32-52 65.7-70\n 101-10.7 23.333-16 35.7-16 37 0 .7 7.7 1 23 1h22c27.3-71.3 75-127 143-167z",

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tilde2: "M344 55.266c-142 0-300.638 81.316-311.5 86.418\n-8.01 3.762-22.5 10.91-23.5 5.562L1 120c-1-2-1-3-1-4 0-5 3-9 8-10l18.4-9C160.9\n 31.9 283 0 358 0c148 0 188 122 331 122s314-97 326-97c4 0 8 2 10 7l7 21.114\nc1 2.14 1 3.21 1 4.28 0 5.347-3 9.626-7 10.696l-22.3 12.622C852.6 158.372 751\n 181.476 676 181.476c-149 0-189-126.21-332-126.21z",

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tilde4: "M786 58C457 58 32 177.487 13 177.487c-6 0-10-3.345\n-11-10.035L.15 143c-1-7 3-12 10-13l22-6.7C381.2 35 637.15 0 807.15 0c337 0 409\n 177 744 177 328 0 754-127 773-127 5 0 10 3 11 9l1 14.794c1 7.805-3 13.38-9\n 14.495l-20.7 5.574c-366.85 99.79-607.3 139.372-776.3 139.372-338 0-409\n -175.236-744-175.236z",

vec: "M377 20c0-5.333 1.833-10 5.5-14S391 0 397 0c4.667 0 8.667 1.667 12 5\n3.333 2.667 6.667 9 10 19 6.667 24.667 20.333 43.667 41 57 7.333 4.667 11\n10.667 11 18 0 6-1 10-3 12s-6.667 5-14 9c-28.667 14.667-53.667 35.667-75 63\n-1.333 1.333-3.167 3.5-5.5 6.5s-4 4.833-5 5.5c-1 .667-2.5 1.333-4.5 2s-4.333 1\n-7 1c-4.667 0-9.167-1.833-13.5-5.5S337 184 337 178c0-12.667 15.667-32.333 47-59\nH213l-171-1c-8.667-6-13-12.333-13-19 0-4.667 4.333-11.333 13-20h359\nc-16-25.333-24-45-24-59z",

widehat1: "M529 0h5l519 115c5 1 9 5 9 10 0 1-1 2-1 3l-4 22\nc-1 5-5 9-11 9h-2L532 67 19 159h-2c-5 0-9-4-11-9l-5-22c-1-6 2-12 8-13z",

widehat2: "M1181 0h2l1171 176c6 0 10 5 10 11l-2 23c-1 6-5 10\n-11 10h-1L1182 67 15 220h-1c-6 0-10-4-11-10l-2-23c-1-6 4-11 10-11z",

widehat3: "M1181 0h2l1171 236c6 0 10 5 10 11l-2 23c-1 6-5 10\n-11 10h-1L1182 67 15 280h-1c-6 0-10-4-11-10l-2-23c-1-6 4-11 10-11z",

widehat4: "M1181 0h2l1171 296c6 0 10 5 10 11l-2 23c-1 6-5 10\n-11 10h-1L1182 67 15 340h-1c-6 0-10-4-11-10l-2-23c-1-6 4-11 10-11z",

widecheck1: "M529,159h5l519,-115c5,-1,9,-5,9,-10c0,-1,-1,-2,-1,-3l-4,-22c-1,\n-5,-5,-9,-11,-9h-2l-512,92l-513,-92h-2c-5,0,-9,4,-11,9l-5,22c-1,6,2,12,8,13z",

widecheck2: "M1181,220h2l1171,-176c6,0,10,-5,10,-11l-2,-23c-1,-6,-5,-10,\n-11,-10h-1l-1168,153l-1167,-153h-1c-6,0,-10,4,-11,10l-2,23c-1,6,4,11,10,11z",

widecheck3: "M1181,280h2l1171,-236c6,0,10,-5,10,-11l-2,-23c-1,-6,-5,-10,\n-11,-10h-1l-1168,213l-1167,-213h-1c-6,0,-10,4,-11,10l-2,23c-1,6,4,11,10,11z",

widecheck4: "M1181,340h2l1171,-296c6,0,10,-5,10,-11l-2,-23c-1,-6,-5,-10,\n-11,-10h-1l-1168,273l-1167,-273h-1c-6,0,-10,4,-11,10l-2,23c-1,6,4,11,10,11z",

baraboveleftarrow: "M400000 620h-399890l3 -3c68.7 -52.7 113.7 -120 135 -202\nc4 -14.7 6 -23 6 -25c0 -7.3 -7 -11 -21 -11c-8 0 -13.2 0.8 -15.5 2.5\nc-2.3 1.7 -4.2 5.8 -5.5 12.5c-1.3 4.7 -2.7 10.3 -4 17c-12 48.7 -34.8 92 -68.5 130\ns-74.2 66.3 -121.5 85c-10 4 -16 7.7 -18 11c0 8.7 6 14.3 18 17c47.3 18.7 87.8 47\n121.5 85s56.5 81.3 68.5 130c0.7 2 1.3 5 2 9s1.2 6.7 1.5 8c0.3 1.3 1 3.3 2 6\ns2.2 4.5 3.5 5.5c1.3 1 3.3 1.8 6 2.5s6 1 10 1c14 0 21 -3.7 21 -11\nc0 -2 -2 -10.3 -6 -25c-20 -79.3 -65 -146.7 -135 -202l-3 -3h399890z\nM100 620v40h399900v-40z M0 241v40h399900v-40zM0 241v40h399900v-40z",

rightarrowabovebar: "M0 241v40h399891c-47.3 35.3-84 78-110 128-16.7 32\n-27.7 63.7-33 95 0 1.3-.2 2.7-.5 4-.3 1.3-.5 2.3-.5 3 0 7.3 6.7 11 20 11 8 0\n13.2-.8 15.5-2.5 2.3-1.7 4.2-5.5 5.5-11.5 2-13.3 5.7-27 11-41 14.7-44.7 39\n-84.5 73-119.5s73.7-60.2 119-75.5c6-2 9-5.7 9-11s-3-9-9-11c-45.3-15.3-85-40.5\n-119-75.5s-58.3-74.8-73-119.5c-4.7-14-8.3-27.3-11-40-1.3-6.7-3.2-10.8-5.5\n-12.5-2.3-1.7-7.5-2.5-15.5-2.5-14 0-21 3.7-21 11 0 2 2 10.3 6 25 20.7 83.3 67\n151.7 139 205zm96 379h399894v40H0zm0 0h399904v40H0z",

baraboveshortleftharpoon: "M507,435c-4,4,-6.3,8.7,-7,14c0,5.3,0.7,9,2,11\nc1.3,2,5.3,5.3,12,10c90.7,54,156,130,196,228c3.3,10.7,6.3,16.3,9,17\nc2,0.7,5,1,9,1c0,0,5,0,5,0c10.7,0,16.7,-2,18,-6c2,-2.7,1,-9.7,-3,-21\nc-32,-87.3,-82.7,-157.7,-152,-211c0,0,-3,-3,-3,-3l399351,0l0,-40\nc-398570,0,-399437,0,-399437,0z M593 435 v40 H399500 v-40z\nM0 281 v-40 H399908 v40z M0 281 v-40 H399908 v40z",

rightharpoonaboveshortbar: "M0,241 l0,40c399126,0,399993,0,399993,0\nc4.7,-4.7,7,-9.3,7,-14c0,-9.3,-3.7,-15.3,-11,-18c-92.7,-56.7,-159,-133.7,-199,\n-231c-3.3,-9.3,-6,-14.7,-8,-16c-2,-1.3,-7,-2,-15,-2c-10.7,0,-16.7,2,-18,6\nc-2,2.7,-1,9.7,3,21c15.3,42,36.7,81.8,64,119.5c27.3,37.7,58,69.2,92,94.5z\nM0 241 v40 H399908 v-40z M0 475 v-40 H399500 v40z M0 475 v-40 H399500 v40z",

shortbaraboveleftharpoon: "M7,435c-4,4,-6.3,8.7,-7,14c0,5.3,0.7,9,2,11\nc1.3,2,5.3,5.3,12,10c90.7,54,156,130,196,228c3.3,10.7,6.3,16.3,9,17c2,0.7,5,1,9,\n1c0,0,5,0,5,0c10.7,0,16.7,-2,18,-6c2,-2.7,1,-9.7,-3,-21c-32,-87.3,-82.7,-157.7,\n-152,-211c0,0,-3,-3,-3,-3l399907,0l0,-40c-399126,0,-399993,0,-399993,0z\nM93 435 v40 H400000 v-40z M500 241 v40 H400000 v-40z M500 241 v40 H400000 v-40z",

shortrightharpoonabovebar: "M53,241l0,40c398570,0,399437,0,399437,0\nc4.7,-4.7,7,-9.3,7,-14c0,-9.3,-3.7,-15.3,-11,-18c-92.7,-56.7,-159,-133.7,-199,\n-231c-3.3,-9.3,-6,-14.7,-8,-16c-2,-1.3,-7,-2,-15,-2c-10.7,0,-16.7,2,-18,6\nc-2,2.7,-1,9.7,3,21c15.3,42,36.7,81.8,64,119.5c27.3,37.7,58,69.2,92,94.5z\nM500 241 v40 H399408 v-40z M500 435 v40 H400000 v-40z"

},

A = function () {

function t(t) {

this.children = void 0, this.classes = void 0, this.height = void 0, this.depth = void 0, this.maxFontSize = void 0, this.style = void 0, this.children = t, this.classes = [], this.height = 0, this.depth = 0, this.maxFontSize = 0, this.style = {}

}

var e = t.prototype;

return e.hasClass = function (t) {

return c.contains(this.classes, t)

}, e.toNode = function () {

for (var t = document.createDocumentFragment(), e = 0; e < this.children.length; e++) t.appendChild(this.children[e].toNode());

return t

}, e.toMarkup = function () {

for (var t = "", e = 0; e < this.children.length; e++) t += this.children[e].toMarkup();

return t

}, e.toText = function () {

var t = function (t) {

return t.toText()

};

return this.children.map(t).join("")

}, t

}(),

T = function (t) {

return t.filter(function (t) {

return t

}).join(" ")

},

B = function (t, e, r) {

if (this.classes = t || [], this.attributes = {}, this.height = 0, this.depth = 0, this.maxFontSize = 0, this.style = r || {}, e) {

e.style.isTight() && this.classes.push("mtight");

var a = e.getColor();

a && (this.style.color = a)

}

},

C = function (t) {

var e = document.createElement(t);

for (var r in e.className = T(this.classes), this.style) this.style.hasOwnProperty(r) && (e.style[r] = this.style[r]);

for (var a in this.attributes) this.attributes.hasOwnProperty(a) && e.setAttribute(a, this.attributes[a]);

for (var n = 0; n < this.children.length; n++) e.appendChild(this.children[n].toNode());

return e

},

q = function (t) {

var e = "<" + t;

this.classes.length && (e += ' class="' + c.escape(T(this.classes)) + '"');

var r = "";

for (var a in this.style) this.style.hasOwnProperty(a) && (r += c.hyphenate(a) + ":" + this.style[a] + ";");

for (var n in r && (e += ' style="' + c.escape(r) + '"'), this.attributes) this.attributes.hasOwnProperty(n) && (e += " " + n + '="' + c.escape(this.attributes[n]) + '"');

e += ">";

for (var i = 0; i < this.children.length; i++) e += this.children[i].toMarkup();

return e += "</" + t + ">"

},

N = function () {

function t(t, e, r, a) {

this.children = void 0, this.attributes = void 0, this.classes = void 0, this.height = void 0, this.depth = void 0, this.width = void 0, this.maxFontSize = void 0, this.style = void 0, B.call(this, t, r, a), this.children = e || []

}

var e = t.prototype;

return e.setAttribute = function (t, e) {

this.attributes[t] = e

}, e.hasClass = function (t) {

return c.contains(this.classes, t)

}, e.toNode = function () {

return C.call(this, "span")

}, e.toMarkup = function () {

return q.call(this, "span")

}, t

}(),

I = function () {

function t(t, e, r, a) {

this.children = void 0, this.attributes = void 0, this.classes = void 0, this.height = void 0, this.depth = void 0, this.maxFontSize = void 0, this.style = void 0, B.call(this, e, a), this.children = r || [], this.setAttribute("href", t)

}

var e = t.prototype;

return e.setAttribute = function (t, e) {

this.attributes[t] = e

}, e.hasClass = function (t) {

return c.contains(this.classes, t)

}, e.toNode = function () {

return C.call(this, "a")

}, e.toMarkup = function () {

return q.call(this, "a")

}, t

}(),

R = function () {

function t(t, e, r) {

this.src = void 0, this.alt = void 0, this.classes = void 0, this.height = void 0, this.depth = void 0, this.maxFontSize = void 0, this.style = void 0, this.alt = e, this.src = t, this.classes = ["mord"], this.style = r

}

var e = t.prototype;

return e.hasClass = function (t) {

return c.contains(this.classes, t)

}, e.toNode = function () {

var t = document.createElement("img");

for (var e in t.src = this.src, t.alt = this.alt, t.className = "mord", this.style) this.style.hasOwnProperty(e) && (t.style[e] = this.style[e]);

return t

}, e.toMarkup = function () {

var t = "<img src='" + this.src + " 'alt='" + this.alt + "' ",

e = "";

for (var r in this.style) this.style.hasOwnProperty(r) && (e += c.hyphenate(r) + ":" + this.style[r] + ";");

return e && (t += ' style="' + c.escape(e) + '"'), t += "'/>"

}, t

}(),

O = {

"\xee": "\u0131\u0302",

"\xef": "\u0131\u0308",

"\xed": "\u0131\u0301",

"\xec": "\u0131\u0300"

},

E = function () {

function t(t, e, r, a, n, i, o, s) {

this.text = void 0, this.height = void 0, this.depth = void 0, this.italic = void 0, this.skew = void 0, this.width = void 0, this.maxFontSize = void 0, this.classes = void 0, this.style = void 0, this.text = t, this.height = e || 0, this.depth = r || 0, this.italic = a || 0, this.skew = n || 0, this.width = i || 0, this.classes = o || [], this.style = s || {}, this.maxFontSize = 0;

var h = function (t) {

for (var e = 0; e < k.length; e++)

for (var r = k[e], a = 0; a < r.blocks.length; a++) {

var n = r.blocks[a];

if (t >= n[0] && t <= n[1]) return r.name

}

return null

}(this.text.charCodeAt(0));

h && this.classes.push(h + "\_fallback"), /[\xee\xef\xed\xec]/.test(this.text) && (this.text = O[this.text])

}

var e = t.prototype;

return e.hasClass = function (t) {

return c.contains(this.classes, t)

}, e.toNode = function () {

var t = document.createTextNode(this.text),

e = null;

for (var r in this.italic > 0 && ((e = document.createElement("span")).style.marginRight = this.italic + "em"), this.classes.length > 0 && ((e = e || document.createElement("span")).className = T(this.classes)), this.style) this.style.hasOwnProperty(r) && ((e = e || document.createElement("span")).style[r] = this.style[r]);

return e ? (e.appendChild(t), e) : t

}, e.toMarkup = function () {

var t = !1,

e = "<span";

this.classes.length && (t = !0, e += ' class="', e += c.escape(T(this.classes)), e += '"');

var r = "";

for (var a in this.italic > 0 && (r += "margin-right:" + this.italic + "em;"), this.style) this.style.hasOwnProperty(a) && (r += c.hyphenate(a) + ":" + this.style[a] + ";");

r && (t = !0, e += ' style="' + c.escape(r) + '"');

var n = c.escape(this.text);

return t ? (e += ">", e += n, e += "</span>") : n

}, t

}(),

L = function () {

function t(t, e) {

this.children = void 0, this.attributes = void 0, this.children = t || [], this.attributes = e || {}

}

var e = t.prototype;

return e.toNode = function () {

var t = document.createElementNS("http://www.w3.org/2000/svg", "svg");

for (var e in this.attributes) Object.prototype.hasOwnProperty.call(this.attributes, e) && t.setAttribute(e, this.attributes[e]);

for (var r = 0; r < this.children.length; r++) t.appendChild(this.children[r].toNode());

return t

}, e.toMarkup = function () {

var t = "<svg";

for (var e in this.attributes) Object.prototype.hasOwnProperty.call(this.attributes, e) && (t += " " + e + "='" + this.attributes[e] + "'");

t += ">";

for (var r = 0; r < this.children.length; r++) t += this.children[r].toMarkup();

return t += "</svg>"

}, t

}(),

H = function () {

function t(t, e) {

this.pathName = void 0, this.alternate = void 0, this.pathName = t, this.alternate = e

}

var e = t.prototype;

return e.toNode = function () {

var t = document.createElementNS("http://www.w3.org/2000/svg", "path");

return this.alternate ? t.setAttribute("d", this.alternate) : t.setAttribute("d", z[this.pathName]), t

}, e.toMarkup = function () {

return this.alternate ? "<path d='" + this.alternate + "'/>" : "<path d='" + z[this.pathName] + "'/>"

}, t

}(),

P = function () {

function t(t) {

this.attributes = void 0, this.attributes = t || {}

}

var e = t.prototype;

return e.toNode = function () {

var t = document.createElementNS("http://www.w3.org/2000/svg", "line");

for (var e in this.attributes) Object.prototype.hasOwnProperty.call(this.attributes, e) && t.setAttribute(e, this.attributes[e]);

return t

}, e.toMarkup = function () {

var t = "<line";

for (var e in this.attributes) Object.prototype.hasOwnProperty.call(this.attributes, e) && (t += " " + e + "='" + this.attributes[e] + "'");

return t += "/>"

}, t

}();

function D(t) {

if (t instanceof E) return t;

throw new Error("Expected symbolNode but got " + String(t) + ".")

}

var F = {

"AMS-Regular": {

65: [0, .68889, 0, 0, .72222],

66: [0, .68889, 0, 0, .66667],

67: [0, .68889, 0, 0, .72222],

68: [0, .68889, 0, 0, .72222],

69: [0, .68889, 0, 0, .66667],

70: [0, .68889, 0, 0, .61111],

71: [0, .68889, 0, 0, .77778],

72: [0, .68889, 0, 0, .77778],

73: [0, .68889, 0, 0, .38889],

74: [.16667, .68889, 0, 0, .5],

75: [0, .68889, 0, 0, .77778],

76: [0, .68889, 0, 0, .66667],

77: [0, .68889, 0, 0, .94445],

78: [0, .68889, 0, 0, .72222],

79: [.16667, .68889, 0, 0, .77778],

80: [0, .68889, 0, 0, .61111],

81: [.16667, .68889, 0, 0, .77778],

82: [0, .68889, 0, 0, .72222],

83: [0, .68889, 0, 0, .55556],

84: [0, .68889, 0, 0, .66667],

85: [0, .68889, 0, 0, .72222],

86: [0, .68889, 0, 0, .72222],

87: [0, .68889, 0, 0, 1],

88: [0, .68889, 0, 0, .72222],

89: [0, .68889, 0, 0, .72222],

90: [0, .68889, 0, 0, .66667],

107: [0, .68889, 0, 0, .55556],

165: [0, .675, .025, 0, .75],

174: [.15559, .69224, 0, 0, .94666],

240: [0, .68889, 0, 0, .55556],

295: [0, .68889, 0, 0, .54028],

710: [0, .825, 0, 0, 2.33334],

732: [0, .9, 0, 0, 2.33334],

770: [0, .825, 0, 0, 2.33334],

771: [0, .9, 0, 0, 2.33334],

989: [.08167, .58167, 0, 0, .77778],

1008: [0, .43056, .04028, 0, .66667],

8245: [0, .54986, 0, 0, .275],

8463: [0, .68889, 0, 0, .54028],

8487: [0, .68889, 0, 0, .72222],

8498: [0, .68889, 0, 0, .55556],

8502: [0, .68889, 0, 0, .66667],

8503: [0, .68889, 0, 0, .44445],

8504: [0, .68889, 0, 0, .66667],

8513: [0, .68889, 0, 0, .63889],

8592: [-.03598, .46402, 0, 0, .5],

8594: [-.03598, .46402, 0, 0, .5],

8602: [-.13313, .36687, 0, 0, 1],

8603: [-.13313, .36687, 0, 0, 1],

8606: [.01354, .52239, 0, 0, 1],

8608: [.01354, .52239, 0, 0, 1],

8610: [.01354, .52239, 0, 0, 1.11111],

8611: [.01354, .52239, 0, 0, 1.11111],

8619: [0, .54986, 0, 0, 1],

8620: [0, .54986, 0, 0, 1],

8621: [-.13313, .37788, 0, 0, 1.38889],

8622: [-.13313, .36687, 0, 0, 1],

8624: [0, .69224, 0, 0, .5],

8625: [0, .69224, 0, 0, .5],

8630: [0, .43056, 0, 0, 1],

8631: [0, .43056, 0, 0, 1],

8634: [.08198, .58198, 0, 0, .77778],

8635: [.08198, .58198, 0, 0, .77778],

8638: [.19444, .69224, 0, 0, .41667],

8639: [.19444, .69224, 0, 0, .41667],

8642: [.19444, .69224, 0, 0, .41667],

8643: [.19444, .69224, 0, 0, .41667],

8644: [.1808, .675, 0, 0, 1],

8646: [.1808, .675, 0, 0, 1],

8647: [.1808, .675, 0, 0, 1],

8648: [.19444, .69224, 0, 0, .83334],

8649: [.1808, .675, 0, 0, 1],

8650: [.19444, .69224, 0, 0, .83334],

8651: [.01354, .52239, 0, 0, 1],

8652: [.01354, .52239, 0, 0, 1],

8653: [-.13313, .36687, 0, 0, 1],

8654: [-.13313, .36687, 0, 0, 1],

8655: [-.13313, .36687, 0, 0, 1],

8666: [.13667, .63667, 0, 0, 1],

8667: [.13667, .63667, 0, 0, 1],

8669: [-.13313, .37788, 0, 0, 1],

8672: [-.064, .437, 0, 0, 1.334],

8674: [-.064, .437, 0, 0, 1.334],

8705: [0, .825, 0, 0, .5],

8708: [0, .68889, 0, 0, .55556],

8709: [.08167, .58167, 0, 0, .77778],

8717: [0, .43056, 0, 0, .42917],

8722: [-.03598, .46402, 0, 0, .5],

8724: [.08198, .69224, 0, 0, .77778],

8726: [.08167, .58167, 0, 0, .77778],

8733: [0, .69224, 0, 0, .77778],

8736: [0, .69224, 0, 0, .72222],

8737: [0, .69224, 0, 0, .72222],

8738: [.03517, .52239, 0, 0, .72222],

8739: [.08167, .58167, 0, 0, .22222],

8740: [.25142, .74111, 0, 0, .27778],

8741: [.08167, .58167, 0, 0, .38889],

8742: [.25142, .74111, 0, 0, .5],

8756: [0, .69224, 0, 0, .66667],

8757: [0, .69224, 0, 0, .66667],

8764: [-.13313, .36687, 0, 0, .77778],

8765: [-.13313, .37788, 0, 0, .77778],

8769: [-.13313, .36687, 0, 0, .77778],

8770: [-.03625, .46375, 0, 0, .77778],

8774: [.30274, .79383, 0, 0, .77778],

8776: [-.01688, .48312, 0, 0, .77778],

8778: [.08167, .58167, 0, 0, .77778],

8782: [.06062, .54986, 0, 0, .77778],

8783: [.06062, .54986, 0, 0, .77778],

8785: [.08198, .58198, 0, 0, .77778],

8786: [.08198, .58198, 0, 0, .77778],

8787: [.08198, .58198, 0, 0, .77778],

8790: [0, .69224, 0, 0, .77778],

8791: [.22958, .72958, 0, 0, .77778],

8796: [.08198, .91667, 0, 0, .77778],

8806: [.25583, .75583, 0, 0, .77778],

8807: [.25583, .75583, 0, 0, .77778],

8808: [.25142, .75726, 0, 0, .77778],

8809: [.25142, .75726, 0, 0, .77778],

8812: [.25583, .75583, 0, 0, .5],

8814: [.20576, .70576, 0, 0, .77778],

8815: [.20576, .70576, 0, 0, .77778],

8816: [.30274, .79383, 0, 0, .77778],

8817: [.30274, .79383, 0, 0, .77778],

8818: [.22958, .72958, 0, 0, .77778],

8819: [.22958, .72958, 0, 0, .77778],

8822: [.1808, .675, 0, 0, .77778],

8823: [.1808, .675, 0, 0, .77778],

8828: [.13667, .63667, 0, 0, .77778],

8829: [.13667, .63667, 0, 0, .77778],

8830: [.22958, .72958, 0, 0, .77778],

8831: [.22958, .72958, 0, 0, .77778],

8832: [.20576, .70576, 0, 0, .77778],

8833: [.20576, .70576, 0, 0, .77778],

8840: [.30274, .79383, 0, 0, .77778],

8841: [.30274, .79383, 0, 0, .77778],

8842: [.13597, .63597, 0, 0, .77778],

8843: [.13597, .63597, 0, 0, .77778],

8847: [.03517, .54986, 0, 0, .77778],

8848: [.03517, .54986, 0, 0, .77778],

8858: [.08198, .58198, 0, 0, .77778],

8859: [.08198, .58198, 0, 0, .77778],

8861: [.08198, .58198, 0, 0, .77778],

8862: [0, .675, 0, 0, .77778],

8863: [0, .675, 0, 0, .77778],

8864: [0, .675, 0, 0, .77778],

8865: [0, .675, 0, 0, .77778],

8872: [0, .69224, 0, 0, .61111],

8873: [0, .69224, 0, 0, .72222],

8874: [0, .69224, 0, 0, .88889],

8876: [0, .68889, 0, 0, .61111],

8877: [0, .68889, 0, 0, .61111],

8878: [0, .68889, 0, 0, .72222],

8879: [0, .68889, 0, 0, .72222],

8882: [.03517, .54986, 0, 0, .77778],

8883: [.03517, .54986, 0, 0, .77778],

8884: [.13667, .63667, 0, 0, .77778],

8885: [.13667, .63667, 0, 0, .77778],

8888: [0, .54986, 0, 0, 1.11111],

8890: [.19444, .43056, 0, 0, .55556],

8891: [.19444, .69224, 0, 0, .61111],

8892: [.19444, .69224, 0, 0, .61111],

8901: [0, .54986, 0, 0, .27778],

8903: [.08167, .58167, 0, 0, .77778],

8905: [.08167, .58167, 0, 0, .77778],

8906: [.08167, .58167, 0, 0, .77778],

8907: [0, .69224, 0, 0, .77778],

8908: [0, .69224, 0, 0, .77778],

8909: [-.03598, .46402, 0, 0, .77778],

8910: [0, .54986, 0, 0, .76042],

8911: [0, .54986, 0, 0, .76042],

8912: [.03517, .54986, 0, 0, .77778],

8913: [.03517, .54986, 0, 0, .77778],

8914: [0, .54986, 0, 0, .66667],

8915: [0, .54986, 0, 0, .66667],

8916: [0, .69224, 0, 0, .66667],

8918: [.0391, .5391, 0, 0, .77778],

8919: [.0391, .5391, 0, 0, .77778],

8920: [.03517, .54986, 0, 0, 1.33334],

8921: [.03517, .54986, 0, 0, 1.33334],

8922: [.38569, .88569, 0, 0, .77778],

8923: [.38569, .88569, 0, 0, .77778],

8926: [.13667, .63667, 0, 0, .77778],

8927: [.13667, .63667, 0, 0, .77778],

8928: [.30274, .79383, 0, 0, .77778],

8929: [.30274, .79383, 0, 0, .77778],

8934: [.23222, .74111, 0, 0, .77778],

8935: [.23222, .74111, 0, 0, .77778],

8936: [.23222, .74111, 0, 0, .77778],

8937: [.23222, .74111, 0, 0, .77778],

8938: [.20576, .70576, 0, 0, .77778],

8939: [.20576, .70576, 0, 0, .77778],

8940: [.30274, .79383, 0, 0, .77778],

8941: [.30274, .79383, 0, 0, .77778],

8994: [.19444, .69224, 0, 0, .77778],

8995: [.19444, .69224, 0, 0, .77778],

9416: [.15559, .69224, 0, 0, .90222],

9484: [0, .69224, 0, 0, .5],

9488: [0, .69224, 0, 0, .5],

9492: [0, .37788, 0, 0, .5],

9496: [0, .37788, 0, 0, .5],

9585: [.19444, .68889, 0, 0, .88889],

9586: [.19444, .74111, 0, 0, .88889],

9632: [0, .675, 0, 0, .77778],

9633: [0, .675, 0, 0, .77778],

9650: [0, .54986, 0, 0, .72222],

9651: [0, .54986, 0, 0, .72222],

9654: [.03517, .54986, 0, 0, .77778],

9660: [0, .54986, 0, 0, .72222],

9661: [0, .54986, 0, 0, .72222],

9664: [.03517, .54986, 0, 0, .77778],

9674: [.11111, .69224, 0, 0, .66667],

9733: [.19444, .69224, 0, 0, .94445],

10003: [0, .69224, 0, 0, .83334],

10016: [0, .69224, 0, 0, .83334],

10731: [.11111, .69224, 0, 0, .66667],

10846: [.19444, .75583, 0, 0, .61111],

10877: [.13667, .63667, 0, 0, .77778],

10878: [.13667, .63667, 0, 0, .77778],

10885: [.25583, .75583, 0, 0, .77778],

10886: [.25583, .75583, 0, 0, .77778],

10887: [.13597, .63597, 0, 0, .77778],

10888: [.13597, .63597, 0, 0, .77778],

10889: [.26167, .75726, 0, 0, .77778],

10890: [.26167, .75726, 0, 0, .77778],

10891: [.48256, .98256, 0, 0, .77778],

10892: [.48256, .98256, 0, 0, .77778],

10901: [.13667, .63667, 0, 0, .77778],

10902: [.13667, .63667, 0, 0, .77778],

10933: [.25142, .75726, 0, 0, .77778],

10934: [.25142, .75726, 0, 0, .77778],

10935: [.26167, .75726, 0, 0, .77778],

10936: [.26167, .75726, 0, 0, .77778],

10937: [.26167, .75726, 0, 0, .77778],

10938: [.26167, .75726, 0, 0, .77778],

10949: [.25583, .75583, 0, 0, .77778],

10950: [.25583, .75583, 0, 0, .77778],

10955: [.28481, .79383, 0, 0, .77778],

10956: [.28481, .79383, 0, 0, .77778],

57350: [.08167, .58167, 0, 0, .22222],

57351: [.08167, .58167, 0, 0, .38889],

57352: [.08167, .58167, 0, 0, .77778],

57353: [0, .43056, .04028, 0, .66667],

57356: [.25142, .75726, 0, 0, .77778],

57357: [.25142, .75726, 0, 0, .77778],

57358: [.41951, .91951, 0, 0, .77778],

57359: [.30274, .79383, 0, 0, .77778],

57360: [.30274, .79383, 0, 0, .77778],

57361: [.41951, .91951, 0, 0, .77778],

57366: [.25142, .75726, 0, 0, .77778],

57367: [.25142, .75726, 0, 0, .77778],

57368: [.25142, .75726, 0, 0, .77778],

57369: [.25142, .75726, 0, 0, .77778],

57370: [.13597, .63597, 0, 0, .77778],

57371: [.13597, .63597, 0, 0, .77778]

},

"Caligraphic-Regular": {

48: [0, .43056, 0, 0, .5],

49: [0, .43056, 0, 0, .5],

50: [0, .43056, 0, 0, .5],

51: [.19444, .43056, 0, 0, .5],

52: [.19444, .43056, 0, 0, .5],

53: [.19444, .43056, 0, 0, .5],

54: [0, .64444, 0, 0, .5],

55: [.19444, .43056, 0, 0, .5],

56: [0, .64444, 0, 0, .5],

57: [.19444, .43056, 0, 0, .5],

65: [0, .68333, 0, .19445, .79847],

66: [0, .68333, .03041, .13889, .65681],

67: [0, .68333, .05834, .13889, .52653],

68: [0, .68333, .02778, .08334, .77139],

69: [0, .68333, .08944, .11111, .52778],

70: [0, .68333, .09931, .11111, .71875],

71: [.09722, .68333, .0593, .11111, .59487],

72: [0, .68333, .00965, .11111, .84452],

73: [0, .68333, .07382, 0, .54452],

74: [.09722, .68333, .18472, .16667, .67778],

75: [0, .68333, .01445, .05556, .76195],

76: [0, .68333, 0, .13889, .68972],

77: [0, .68333, 0, .13889, 1.2009],

78: [0, .68333, .14736, .08334, .82049],

79: [0, .68333, .02778, .11111, .79611],

80: [0, .68333, .08222, .08334, .69556],

81: [.09722, .68333, 0, .11111, .81667],

82: [0, .68333, 0, .08334, .8475],

83: [0, .68333, .075, .13889, .60556],

84: [0, .68333, .25417, 0, .54464],

85: [0, .68333, .09931, .08334, .62583],

86: [0, .68333, .08222, 0, .61278],

87: [0, .68333, .08222, .08334, .98778],

88: [0, .68333, .14643, .13889, .7133],

89: [.09722, .68333, .08222, .08334, .66834],

90: [0, .68333, .07944, .13889, .72473]

},

"Fraktur-Regular": {

33: [0, .69141, 0, 0, .29574],

34: [0, .69141, 0, 0, .21471],

38: [0, .69141, 0, 0, .73786],

39: [0, .69141, 0, 0, .21201],

40: [.24982, .74947, 0, 0, .38865],

41: [.24982, .74947, 0, 0, .38865],

42: [0, .62119, 0, 0, .27764],

43: [.08319, .58283, 0, 0, .75623],

44: [0, .10803, 0, 0, .27764],

45: [.08319, .58283, 0, 0, .75623],

46: [0, .10803, 0, 0, .27764],

47: [.24982, .74947, 0, 0, .50181],

48: [0, .47534, 0, 0, .50181],

49: [0, .47534, 0, 0, .50181],

50: [0, .47534, 0, 0, .50181],

51: [.18906, .47534, 0, 0, .50181],

52: [.18906, .47534, 0, 0, .50181],

53: [.18906, .47534, 0, 0, .50181],

54: [0, .69141, 0, 0, .50181],

55: [.18906, .47534, 0, 0, .50181],

56: [0, .69141, 0, 0, .50181],

57: [.18906, .47534, 0, 0, .50181],

58: [0, .47534, 0, 0, .21606],

59: [.12604, .47534, 0, 0, .21606],

61: [-.13099, .36866, 0, 0, .75623],

63: [0, .69141, 0, 0, .36245],

65: [0, .69141, 0, 0, .7176],

66: [0, .69141, 0, 0, .88397],

67: [0, .69141, 0, 0, .61254],

68: [0, .69141, 0, 0, .83158],

69: [0, .69141, 0, 0, .66278],

70: [.12604, .69141, 0, 0, .61119],

71: [0, .69141, 0, 0, .78539],

72: [.06302, .69141, 0, 0, .7203],

73: [0, .69141, 0, 0, .55448],

74: [.12604, .69141, 0, 0, .55231],

75: [0, .69141, 0, 0, .66845],

76: [0, .69141, 0, 0, .66602],

77: [0, .69141, 0, 0, 1.04953],

78: [0, .69141, 0, 0, .83212],

79: [0, .69141, 0, 0, .82699],

80: [.18906, .69141, 0, 0, .82753],

81: [.03781, .69141, 0, 0, .82699],

82: [0, .69141, 0, 0, .82807],

83: [0, .69141, 0, 0, .82861],

84: [0, .69141, 0, 0, .66899],

85: [0, .69141, 0, 0, .64576],

86: [0, .69141, 0, 0, .83131],

87: [0, .69141, 0, 0, 1.04602],

88: [0, .69141, 0, 0, .71922],

89: [.18906, .69141, 0, 0, .83293],

90: [.12604, .69141, 0, 0, .60201],

91: [.24982, .74947, 0, 0, .27764],

93: [.24982, .74947, 0, 0, .27764],

94: [0, .69141, 0, 0, .49965],

97: [0, .47534, 0, 0, .50046],

98: [0, .69141, 0, 0, .51315],

99: [0, .47534, 0, 0, .38946],

100: [0, .62119, 0, 0, .49857],

101: [0, .47534, 0, 0, .40053],

102: [.18906, .69141, 0, 0, .32626],

103: [.18906, .47534, 0, 0, .5037],

104: [.18906, .69141, 0, 0, .52126],

105: [0, .69141, 0, 0, .27899],

106: [0, .69141, 0, 0, .28088],

107: [0, .69141, 0, 0, .38946],

108: [0, .69141, 0, 0, .27953],

109: [0, .47534, 0, 0, .76676],

110: [0, .47534, 0, 0, .52666],

111: [0, .47534, 0, 0, .48885],

112: [.18906, .52396, 0, 0, .50046],

113: [.18906, .47534, 0, 0, .48912],

114: [0, .47534, 0, 0, .38919],

115: [0, .47534, 0, 0, .44266],

116: [0, .62119, 0, 0, .33301],

117: [0, .47534, 0, 0, .5172],

118: [0, .52396, 0, 0, .5118],

119: [0, .52396, 0, 0, .77351],

120: [.18906, .47534, 0, 0, .38865],

121: [.18906, .47534, 0, 0, .49884],

122: [.18906, .47534, 0, 0, .39054],

8216: [0, .69141, 0, 0, .21471],

8217: [0, .69141, 0, 0, .21471],

58112: [0, .62119, 0, 0, .49749],

58113: [0, .62119, 0, 0, .4983],

58114: [.18906, .69141, 0, 0, .33328],

58115: [.18906, .69141, 0, 0, .32923],

58116: [.18906, .47534, 0, 0, .50343],

58117: [0, .69141, 0, 0, .33301],

58118: [0, .62119, 0, 0, .33409],

58119: [0, .47534, 0, 0, .50073]

},

"Main-Bold": {

33: [0, .69444, 0, 0, .35],

34: [0, .69444, 0, 0, .60278],

35: [.19444, .69444, 0, 0, .95833],

36: [.05556, .75, 0, 0, .575],

37: [.05556, .75, 0, 0, .95833],

38: [0, .69444, 0, 0, .89444],

39: [0, .69444, 0, 0, .31944],

40: [.25, .75, 0, 0, .44722],

41: [.25, .75, 0, 0, .44722],

42: [0, .75, 0, 0, .575],

43: [.13333, .63333, 0, 0, .89444],

44: [.19444, .15556, 0, 0, .31944],

45: [0, .44444, 0, 0, .38333],

46: [0, .15556, 0, 0, .31944],

47: [.25, .75, 0, 0, .575],

48: [0, .64444, 0, 0, .575],

49: [0, .64444, 0, 0, .575],

50: [0, .64444, 0, 0, .575],

51: [0, .64444, 0, 0, .575],

52: [0, .64444, 0, 0, .575],

53: [0, .64444, 0, 0, .575],

54: [0, .64444, 0, 0, .575],

55: [0, .64444, 0, 0, .575],

56: [0, .64444, 0, 0, .575],

57: [0, .64444, 0, 0, .575],

58: [0, .44444, 0, 0, .31944],

59: [.19444, .44444, 0, 0, .31944],

60: [.08556, .58556, 0, 0, .89444],

61: [-.10889, .39111, 0, 0, .89444],

62: [.08556, .58556, 0, 0, .89444],

63: [0, .69444, 0, 0, .54305],

64: [0, .69444, 0, 0, .89444],

65: [0, .68611, 0, 0, .86944],

66: [0, .68611, 0, 0, .81805],

67: [0, .68611, 0, 0, .83055],

68: [0, .68611, 0, 0, .88194],

69: [0, .68611, 0, 0, .75555],

70: [0, .68611, 0, 0, .72361],

71: [0, .68611, 0, 0, .90416],

72: [0, .68611, 0, 0, .9],

73: [0, .68611, 0, 0, .43611],

74: [0, .68611, 0, 0, .59444],

75: [0, .68611, 0, 0, .90138],

76: [0, .68611, 0, 0, .69166],

77: [0, .68611, 0, 0, 1.09166],

78: [0, .68611, 0, 0, .9],

79: [0, .68611, 0, 0, .86388],

80: [0, .68611, 0, 0, .78611],

81: [.19444, .68611, 0, 0, .86388],

82: [0, .68611, 0, 0, .8625],

83: [0, .68611, 0, 0, .63889],

84: [0, .68611, 0, 0, .8],

85: [0, .68611, 0, 0, .88472],

86: [0, .68611, .01597, 0, .86944],

87: [0, .68611, .01597, 0, 1.18888],

88: [0, .68611, 0, 0, .86944],

89: [0, .68611, .02875, 0, .86944],

90: [0, .68611, 0, 0, .70277],

91: [.25, .75, 0, 0, .31944],

92: [.25, .75, 0, 0, .575],

93: [.25, .75, 0, 0, .31944],

94: [0, .69444, 0, 0, .575],

95: [.31, .13444, .03194, 0, .575],

97: [0, .44444, 0, 0, .55902],

98: [0, .69444, 0, 0, .63889],

99: [0, .44444, 0, 0, .51111],

100: [0, .69444, 0, 0, .63889],

101: [0, .44444, 0, 0, .52708],

102: [0, .69444, .10903, 0, .35139],

103: [.19444, .44444, .01597, 0, .575],

104: [0, .69444, 0, 0, .63889],

105: [0, .69444, 0, 0, .31944],

106: [.19444, .69444, 0, 0, .35139],

107: [0, .69444, 0, 0, .60694],

108: [0, .69444, 0, 0, .31944],

109: [0, .44444, 0, 0, .95833],

110: [0, .44444, 0, 0, .63889],

111: [0, .44444, 0, 0, .575],

112: [.19444, .44444, 0, 0, .63889],

113: [.19444, .44444, 0, 0, .60694],

114: [0, .44444, 0, 0, .47361],

115: [0, .44444, 0, 0, .45361],

116: [0, .63492, 0, 0, .44722],

117: [0, .44444, 0, 0, .63889],

118: [0, .44444, .01597, 0, .60694],

119: [0, .44444, .01597, 0, .83055],

120: [0, .44444, 0, 0, .60694],

121: [.19444, .44444, .01597, 0, .60694],

122: [0, .44444, 0, 0, .51111],

123: [.25, .75, 0, 0, .575],

124: [.25, .75, 0, 0, .31944],

125: [.25, .75, 0, 0, .575],

126: [.35, .34444, 0, 0, .575],

168: [0, .69444, 0, 0, .575],

172: [0, .44444, 0, 0, .76666],

176: [0, .69444, 0, 0, .86944],

177: [.13333, .63333, 0, 0, .89444],

184: [.17014, 0, 0, 0, .51111],

198: [0, .68611, 0, 0, 1.04166],

215: [.13333, .63333, 0, 0, .89444],

216: [.04861, .73472, 0, 0, .89444],

223: [0, .69444, 0, 0, .59722],

230: [0, .44444, 0, 0, .83055],

247: [.13333, .63333, 0, 0, .89444],

248: [.09722, .54167, 0, 0, .575],

305: [0, .44444, 0, 0, .31944],

338: [0, .68611, 0, 0, 1.16944],

339: [0, .44444, 0, 0, .89444],

567: [.19444, .44444, 0, 0, .35139],

710: [0, .69444, 0, 0, .575],

711: [0, .63194, 0, 0, .575],

713: [0, .59611, 0, 0, .575],

714: [0, .69444, 0, 0, .575],

715: [0, .69444, 0, 0, .575],

728: [0, .69444, 0, 0, .575],

729: [0, .69444, 0, 0, .31944],

730: [0, .69444, 0, 0, .86944],

732: [0, .69444, 0, 0, .575],

733: [0, .69444, 0, 0, .575],

915: [0, .68611, 0, 0, .69166],

916: [0, .68611, 0, 0, .95833],

920: [0, .68611, 0, 0, .89444],

923: [0, .68611, 0, 0, .80555],

926: [0, .68611, 0, 0, .76666],

928: [0, .68611, 0, 0, .9],

931: [0, .68611, 0, 0, .83055],

933: [0, .68611, 0, 0, .89444],

934: [0, .68611, 0, 0, .83055],

936: [0, .68611, 0, 0, .89444],

937: [0, .68611, 0, 0, .83055],

8211: [0, .44444, .03194, 0, .575],

8212: [0, .44444, .03194, 0, 1.14999],

8216: [0, .69444, 0, 0, .31944],

8217: [0, .69444, 0, 0, .31944],

8220: [0, .69444, 0, 0, .60278],

8221: [0, .69444, 0, 0, .60278],

8224: [.19444, .69444, 0, 0, .51111],

8225: [.19444, .69444, 0, 0, .51111],

8242: [0, .55556, 0, 0, .34444],

8407: [0, .72444, .15486, 0, .575],

8463: [0, .69444, 0, 0, .66759],

8465: [0, .69444, 0, 0, .83055],

8467: [0, .69444, 0, 0, .47361],

8472: [.19444, .44444, 0, 0, .74027],

8476: [0, .69444, 0, 0, .83055],

8501: [0, .69444, 0, 0, .70277],

8592: [-.10889, .39111, 0, 0, 1.14999],

8593: [.19444, .69444, 0, 0, .575],

8594: [-.10889, .39111, 0, 0, 1.14999],

8595: [.19444, .69444, 0, 0, .575],

8596: [-.10889, .39111, 0, 0, 1.14999],

8597: [.25, .75, 0, 0, .575],

8598: [.19444, .69444, 0, 0, 1.14999],

8599: [.19444, .69444, 0, 0, 1.14999],

8600: [.19444, .69444, 0, 0, 1.14999],

8601: [.19444, .69444, 0, 0, 1.14999],

8636: [-.10889, .39111, 0, 0, 1.14999],

8637: [-.10889, .39111, 0, 0, 1.14999],

8640: [-.10889, .39111, 0, 0, 1.14999],

8641: [-.10889, .39111, 0, 0, 1.14999],

8656: [-.10889, .39111, 0, 0, 1.14999],

8657: [.19444, .69444, 0, 0, .70277],

8658: [-.10889, .39111, 0, 0, 1.14999],

8659: [.19444, .69444, 0, 0, .70277],

8660: [-.10889, .39111, 0, 0, 1.14999],

8661: [.25, .75, 0, 0, .70277],

8704: [0, .69444, 0, 0, .63889],

8706: [0, .69444, .06389, 0, .62847],

8707: [0, .69444, 0, 0, .63889],

8709: [.05556, .75, 0, 0, .575],

8711: [0, .68611, 0, 0, .95833],

8712: [.08556, .58556, 0, 0, .76666],

8715: [.08556, .58556, 0, 0, .76666],

8722: [.13333, .63333, 0, 0, .89444],

8723: [.13333, .63333, 0, 0, .89444],

8725: [.25, .75, 0, 0, .575],

8726: [.25, .75, 0, 0, .575],

8727: [-.02778, .47222, 0, 0, .575],

8728: [-.02639, .47361, 0, 0, .575],

8729: [-.02639, .47361, 0, 0, .575],

8730: [.18, .82, 0, 0, .95833],

8733: [0, .44444, 0, 0, .89444],

8734: [0, .44444, 0, 0, 1.14999],

8736: [0, .69224, 0, 0, .72222],

8739: [.25, .75, 0, 0, .31944],

8741: [.25, .75, 0, 0, .575],

8743: [0, .55556, 0, 0, .76666],

8744: [0, .55556, 0, 0, .76666],

8745: [0, .55556, 0, 0, .76666],

8746: [0, .55556, 0, 0, .76666],

8747: [.19444, .69444, .12778, 0, .56875],

8764: [-.10889, .39111, 0, 0, .89444],

8768: [.19444, .69444, 0, 0, .31944],

8771: [.00222, .50222, 0, 0, .89444],

8776: [.02444, .52444, 0, 0, .89444],

8781: [.00222, .50222, 0, 0, .89444],

8801: [.00222, .50222, 0, 0, .89444],

8804: [.19667, .69667, 0, 0, .89444],

8805: [.19667, .69667, 0, 0, .89444],

8810: [.08556, .58556, 0, 0, 1.14999],

8811: [.08556, .58556, 0, 0, 1.14999],

8826: [.08556, .58556, 0, 0, .89444],

8827: [.08556, .58556, 0, 0, .89444],

8834: [.08556, .58556, 0, 0, .89444],

8835: [.08556, .58556, 0, 0, .89444],

8838: [.19667, .69667, 0, 0, .89444],

8839: [.19667, .69667, 0, 0, .89444],

8846: [0, .55556, 0, 0, .76666],

8849: [.19667, .69667, 0, 0, .89444],

8850: [.19667, .69667, 0, 0, .89444],

8851: [0, .55556, 0, 0, .76666],

8852: [0, .55556, 0, 0, .76666],

8853: [.13333, .63333, 0, 0, .89444],

8854: [.13333, .63333, 0, 0, .89444],

8855: [.13333, .63333, 0, 0, .89444],

8856: [.13333, .63333, 0, 0, .89444],

8857: [.13333, .63333, 0, 0, .89444],

8866: [0, .69444, 0, 0, .70277],

8867: [0, .69444, 0, 0, .70277],

8868: [0, .69444, 0, 0, .89444],

8869: [0, .69444, 0, 0, .89444],

8900: [-.02639, .47361, 0, 0, .575],

8901: [-.02639, .47361, 0, 0, .31944],

8902: [-.02778, .47222, 0, 0, .575],

8968: [.25, .75, 0, 0, .51111],

8969: [.25, .75, 0, 0, .51111],

8970: [.25, .75, 0, 0, .51111],

8971: [.25, .75, 0, 0, .51111],

8994: [-.13889, .36111, 0, 0, 1.14999],

8995: [-.13889, .36111, 0, 0, 1.14999],

9651: [.19444, .69444, 0, 0, 1.02222],

9657: [-.02778, .47222, 0, 0, .575],

9661: [.19444, .69444, 0, 0, 1.02222],

9667: [-.02778, .47222, 0, 0, .575],

9711: [.19444, .69444, 0, 0, 1.14999],

9824: [.12963, .69444, 0, 0, .89444],

9825: [.12963, .69444, 0, 0, .89444],

9826: [.12963, .69444, 0, 0, .89444],

9827: [.12963, .69444, 0, 0, .89444],

9837: [0, .75, 0, 0, .44722],

9838: [.19444, .69444, 0, 0, .44722],

9839: [.19444, .69444, 0, 0, .44722],

10216: [.25, .75, 0, 0, .44722],

10217: [.25, .75, 0, 0, .44722],

10815: [0, .68611, 0, 0, .9],

10927: [.19667, .69667, 0, 0, .89444],

10928: [.19667, .69667, 0, 0, .89444],

57376: [.19444, .69444, 0, 0, 0]

},

"Main-BoldItalic": {

33: [0, .69444, .11417, 0, .38611],

34: [0, .69444, .07939, 0, .62055],

35: [.19444, .69444, .06833, 0, .94444],

37: [.05556, .75, .12861, 0, .94444],

38: [0, .69444, .08528, 0, .88555],

39: [0, .69444, .12945, 0, .35555],

40: [.25, .75, .15806, 0, .47333],

41: [.25, .75, .03306, 0, .47333],

42: [0, .75, .14333, 0, .59111],

43: [.10333, .60333, .03306, 0, .88555],

44: [.19444, .14722, 0, 0, .35555],

45: [0, .44444, .02611, 0, .41444],

46: [0, .14722, 0, 0, .35555],

47: [.25, .75, .15806, 0, .59111],

48: [0, .64444, .13167, 0, .59111],

49: [0, .64444, .13167, 0, .59111],

50: [0, .64444, .13167, 0, .59111],

51: [0, .64444, .13167, 0, .59111],

52: [.19444, .64444, .13167, 0, .59111],

53: [0, .64444, .13167, 0, .59111],

54: [0, .64444, .13167, 0, .59111],

55: [.19444, .64444, .13167, 0, .59111],

56: [0, .64444, .13167, 0, .59111],

57: [0, .64444, .13167, 0, .59111],

58: [0, .44444, .06695, 0, .35555],

59: [.19444, .44444, .06695, 0, .35555],

61: [-.10889, .39111, .06833, 0, .88555],

63: [0, .69444, .11472, 0, .59111],

64: [0, .69444, .09208, 0, .88555],

65: [0, .68611, 0, 0, .86555],

66: [0, .68611, .0992, 0, .81666],

67: [0, .68611, .14208, 0, .82666],

68: [0, .68611, .09062, 0, .87555],

69: [0, .68611, .11431, 0, .75666],

70: [0, .68611, .12903, 0, .72722],

71: [0, .68611, .07347, 0, .89527],

72: [0, .68611, .17208, 0, .8961],

73: [0, .68611, .15681, 0, .47166],

74: [0, .68611, .145, 0, .61055],

75: [0, .68611, .14208, 0, .89499],

76: [0, .68611, 0, 0, .69777],

77: [0, .68611, .17208, 0, 1.07277],

78: [0, .68611, .17208, 0, .8961],

79: [0, .68611, .09062, 0, .85499],

80: [0, .68611, .0992, 0, .78721],

81: [.19444, .68611, .09062, 0, .85499],

82: [0, .68611, .02559, 0, .85944],

83: [0, .68611, .11264, 0, .64999],

84: [0, .68611, .12903, 0, .7961],

85: [0, .68611, .17208, 0, .88083],

86: [0, .68611, .18625, 0, .86555],

87: [0, .68611, .18625, 0, 1.15999],

88: [0, .68611, .15681, 0, .86555],

89: [0, .68611, .19803, 0, .86555],

90: [0, .68611, .14208, 0, .70888],

91: [.25, .75, .1875, 0, .35611],

93: [.25, .75, .09972, 0, .35611],

94: [0, .69444, .06709, 0, .59111],

95: [.31, .13444, .09811, 0, .59111],

97: [0, .44444, .09426, 0, .59111],

98: [0, .69444, .07861, 0, .53222],

99: [0, .44444, .05222, 0, .53222],

100: [0, .69444, .10861, 0, .59111],

101: [0, .44444, .085, 0, .53222],

102: [.19444, .69444, .21778, 0, .4],

103: [.19444, .44444, .105, 0, .53222],

104: [0, .69444, .09426, 0, .59111],

105: [0, .69326, .11387, 0, .35555],

106: [.19444, .69326, .1672, 0, .35555],

107: [0, .69444, .11111, 0, .53222],

108: [0, .69444, .10861, 0, .29666],

109: [0, .44444, .09426, 0, .94444],

110: [0, .44444, .09426, 0, .64999],

111: [0, .44444, .07861, 0, .59111],

112: [.19444, .44444, .07861, 0, .59111],

113: [.19444, .44444, .105, 0, .53222],

114: [0, .44444, .11111, 0, .50167],

115: [0, .44444, .08167, 0, .48694],

116: [0, .63492, .09639, 0, .385],

117: [0, .44444, .09426, 0, .62055],

118: [0, .44444, .11111, 0, .53222],

119: [0, .44444, .11111, 0, .76777],

120: [0, .44444, .12583, 0, .56055],

121: [.19444, .44444, .105, 0, .56166],

122: [0, .44444, .13889, 0, .49055],

126: [.35, .34444, .11472, 0, .59111],

163: [0, .69444, 0, 0, .86853],

168: [0, .69444, .11473, 0, .59111],

176: [0, .69444, 0, 0, .94888],

184: [.17014, 0, 0, 0, .53222],

198: [0, .68611, .11431, 0, 1.02277],

216: [.04861, .73472, .09062, 0, .88555],

223: [.19444, .69444, .09736, 0, .665],

230: [0, .44444, .085, 0, .82666],

248: [.09722, .54167, .09458, 0, .59111],

305: [0, .44444, .09426, 0, .35555],

338: [0, .68611, .11431, 0, 1.14054],

339: [0, .44444, .085, 0, .82666],

567: [.19444, .44444, .04611, 0, .385],

710: [0, .69444, .06709, 0, .59111],

711: [0, .63194, .08271, 0, .59111],

713: [0, .59444, .10444, 0, .59111],

714: [0, .69444, .08528, 0, .59111],

715: [0, .69444, 0, 0, .59111],

728: [0, .69444, .10333, 0, .59111],

729: [0, .69444, .12945, 0, .35555],

730: [0, .69444, 0, 0, .94888],

732: [0, .69444, .11472, 0, .59111],

733: [0, .69444, .11472, 0, .59111],

915: [0, .68611, .12903, 0, .69777],

916: [0, .68611, 0, 0, .94444],

920: [0, .68611, .09062, 0, .88555],

923: [0, .68611, 0, 0, .80666],

926: [0, .68611, .15092, 0, .76777],

928: [0, .68611, .17208, 0, .8961],

931: [0, .68611, .11431, 0, .82666],

933: [0, .68611, .10778, 0, .88555],

934: [0, .68611, .05632, 0, .82666],

936: [0, .68611, .10778, 0, .88555],

937: [0, .68611, .0992, 0, .82666],

8211: [0, .44444, .09811, 0, .59111],

8212: [0, .44444, .09811, 0, 1.18221],

8216: [0, .69444, .12945, 0, .35555],

8217: [0, .69444, .12945, 0, .35555],

8220: [0, .69444, .16772, 0, .62055],

8221: [0, .69444, .07939, 0, .62055]

},

"Main-Italic": {

33: [0, .69444, .12417, 0, .30667],

34: [0, .69444, .06961, 0, .51444],

35: [.19444, .69444, .06616, 0, .81777],

37: [.05556, .75, .13639, 0, .81777],

38: [0, .69444, .09694, 0, .76666],

39: [0, .69444, .12417, 0, .30667],

40: [.25, .75, .16194, 0, .40889],

41: [.25, .75, .03694, 0, .40889],

42: [0, .75, .14917, 0, .51111],

43: [.05667, .56167, .03694, 0, .76666],

44: [.19444, .10556, 0, 0, .30667],

45: [0, .43056, .02826, 0, .35778],

46: [0, .10556, 0, 0, .30667],

47: [.25, .75, .16194, 0, .51111],

48: [0, .64444, .13556, 0, .51111],

49: [0, .64444, .13556, 0, .51111],

50: [0, .64444, .13556, 0, .51111],

51: [0, .64444, .13556, 0, .51111],

52: [.19444, .64444, .13556, 0, .51111],

53: [0, .64444, .13556, 0, .51111],

54: [0, .64444, .13556, 0, .51111],

55: [.19444, .64444, .13556, 0, .51111],

56: [0, .64444, .13556, 0, .51111],

57: [0, .64444, .13556, 0, .51111],

58: [0, .43056, .0582, 0, .30667],

59: [.19444, .43056, .0582, 0, .30667],

61: [-.13313, .36687, .06616, 0, .76666],

63: [0, .69444, .1225, 0, .51111],

64: [0, .69444, .09597, 0, .76666],

65: [0, .68333, 0, 0, .74333],

66: [0, .68333, .10257, 0, .70389],

67: [0, .68333, .14528, 0, .71555],

68: [0, .68333, .09403, 0, .755],

69: [0, .68333, .12028, 0, .67833],

70: [0, .68333, .13305, 0, .65277],

71: [0, .68333, .08722, 0, .77361],

72: [0, .68333, .16389, 0, .74333],

73: [0, .68333, .15806, 0, .38555],

74: [0, .68333, .14028, 0, .525],

75: [0, .68333, .14528, 0, .76888],

76: [0, .68333, 0, 0, .62722],

77: [0, .68333, .16389, 0, .89666],

78: [0, .68333, .16389, 0, .74333],

79: [0, .68333, .09403, 0, .76666],

80: [0, .68333, .10257, 0, .67833],

81: [.19444, .68333, .09403, 0, .76666],

82: [0, .68333, .03868, 0, .72944],

83: [0, .68333, .11972, 0, .56222],

84: [0, .68333, .13305, 0, .71555],

85: [0, .68333, .16389, 0, .74333],

86: [0, .68333, .18361, 0, .74333],

87: [0, .68333, .18361, 0, .99888],

88: [0, .68333, .15806, 0, .74333],

89: [0, .68333, .19383, 0, .74333],

90: [0, .68333, .14528, 0, .61333],

91: [.25, .75, .1875, 0, .30667],

93: [.25, .75, .10528, 0, .30667],

94: [0, .69444, .06646, 0, .51111],

95: [.31, .12056, .09208, 0, .51111],

97: [0, .43056, .07671, 0, .51111],

98: [0, .69444, .06312, 0, .46],

99: [0, .43056, .05653, 0, .46],

100: [0, .69444, .10333, 0, .51111],

101: [0, .43056, .07514, 0, .46],

102: [.19444, .69444, .21194, 0, .30667],

103: [.19444, .43056, .08847, 0, .46],

104: [0, .69444, .07671, 0, .51111],

105: [0, .65536, .1019, 0, .30667],

106: [.19444, .65536, .14467, 0, .30667],

107: [0, .69444, .10764, 0, .46],

108: [0, .69444, .10333, 0, .25555],

109: [0, .43056, .07671, 0, .81777],

110: [0, .43056, .07671, 0, .56222],

111: [0, .43056, .06312, 0, .51111],

112: [.19444, .43056, .06312, 0, .51111],

113: [.19444, .43056, .08847, 0, .46],

114: [0, .43056, .10764, 0, .42166],

115: [0, .43056, .08208, 0, .40889],

116: [0, .61508, .09486, 0, .33222],

117: [0, .43056, .07671, 0, .53666],

118: [0, .43056, .10764, 0, .46],

119: [0, .43056, .10764, 0, .66444],

120: [0, .43056, .12042, 0, .46389],

121: [.19444, .43056, .08847, 0, .48555],

122: [0, .43056, .12292, 0, .40889],

126: [.35, .31786, .11585, 0, .51111],

163: [0, .69444, 0, 0, .76909],

168: [0, .66786, .10474, 0, .51111],

176: [0, .69444, 0, 0, .83129],

184: [.17014, 0, 0, 0, .46],

198: [0, .68333, .12028, 0, .88277],

216: [.04861, .73194, .09403, 0, .76666],

223: [.19444, .69444, .10514, 0, .53666],

230: [0, .43056, .07514, 0, .71555],

248: [.09722, .52778, .09194, 0, .51111],

305: [0, .43056, 0, .02778, .32246],

338: [0, .68333, .12028, 0, .98499],

339: [0, .43056, .07514, 0, .71555],

567: [.19444, .43056, 0, .08334, .38403],

710: [0, .69444, .06646, 0, .51111],

711: [0, .62847, .08295, 0, .51111],

713: [0, .56167, .10333, 0, .51111],

714: [0, .69444, .09694, 0, .51111],

715: [0, .69444, 0, 0, .51111],

728: [0, .69444, .10806, 0, .51111],

729: [0, .66786, .11752, 0, .30667],

730: [0, .69444, 0, 0, .83129],

732: [0, .66786, .11585, 0, .51111],

733: [0, .69444, .1225, 0, .51111],

915: [0, .68333, .13305, 0, .62722],

916: [0, .68333, 0, 0, .81777],

920: [0, .68333, .09403, 0, .76666],

923: [0, .68333, 0, 0, .69222],

926: [0, .68333, .15294, 0, .66444],

928: [0, .68333, .16389, 0, .74333],

931: [0, .68333, .12028, 0, .71555],

933: [0, .68333, .11111, 0, .76666],

934: [0, .68333, .05986, 0, .71555],

936: [0, .68333, .11111, 0, .76666],

937: [0, .68333, .10257, 0, .71555],

8211: [0, .43056, .09208, 0, .51111],

8212: [0, .43056, .09208, 0, 1.02222],

8216: [0, .69444, .12417, 0, .30667],

8217: [0, .69444, .12417, 0, .30667],

8220: [0, .69444, .1685, 0, .51444],

8221: [0, .69444, .06961, 0, .51444],

8463: [0, .68889, 0, 0, .54028]

},

"Main-Regular": {

32: [0, 0, 0, 0, .25],

33: [0, .69444, 0, 0, .27778],

34: [0, .69444, 0, 0, .5],

35: [.19444, .69444, 0, 0, .83334],

36: [.05556, .75, 0, 0, .5],

37: [.05556, .75, 0, 0, .83334],

38: [0, .69444, 0, 0, .77778],

39: [0, .69444, 0, 0, .27778],

40: [.25, .75, 0, 0, .38889],

41: [.25, .75, 0, 0, .38889],

42: [0, .75, 0, 0, .5],

43: [.08333, .58333, 0, 0, .77778],

44: [.19444, .10556, 0, 0, .27778],

45: [0, .43056, 0, 0, .33333],

46: [0, .10556, 0, 0, .27778],

47: [.25, .75, 0, 0, .5],

48: [0, .64444, 0, 0, .5],

49: [0, .64444, 0, 0, .5],

50: [0, .64444, 0, 0, .5],

51: [0, .64444, 0, 0, .5],

52: [0, .64444, 0, 0, .5],

53: [0, .64444, 0, 0, .5],

54: [0, .64444, 0, 0, .5],

55: [0, .64444, 0, 0, .5],

56: [0, .64444, 0, 0, .5],

57: [0, .64444, 0, 0, .5],

58: [0, .43056, 0, 0, .27778],

59: [.19444, .43056, 0, 0, .27778],

60: [.0391, .5391, 0, 0, .77778],

61: [-.13313, .36687, 0, 0, .77778],

62: [.0391, .5391, 0, 0, .77778],

63: [0, .69444, 0, 0, .47222],

64: [0, .69444, 0, 0, .77778],

65: [0, .68333, 0, 0, .75],

66: [0, .68333, 0, 0, .70834],

67: [0, .68333, 0, 0, .72222],

68: [0, .68333, 0, 0, .76389],

69: [0, .68333, 0, 0, .68056],

70: [0, .68333, 0, 0, .65278],

71: [0, .68333, 0, 0, .78472],

72: [0, .68333, 0, 0, .75],

73: [0, .68333, 0, 0, .36111],

74: [0, .68333, 0, 0, .51389],

75: [0, .68333, 0, 0, .77778],

76: [0, .68333, 0, 0, .625],

77: [0, .68333, 0, 0, .91667],

78: [0, .68333, 0, 0, .75],

79: [0, .68333, 0, 0, .77778],

80: [0, .68333, 0, 0, .68056],

81: [.19444, .68333, 0, 0, .77778],

82: [0, .68333, 0, 0, .73611],

83: [0, .68333, 0, 0, .55556],

84: [0, .68333, 0, 0, .72222],

85: [0, .68333, 0, 0, .75],

86: [0, .68333, .01389, 0, .75],

87: [0, .68333, .01389, 0, 1.02778],

88: [0, .68333, 0, 0, .75],

89: [0, .68333, .025, 0, .75],

90: [0, .68333, 0, 0, .61111],

91: [.25, .75, 0, 0, .27778],

92: [.25, .75, 0, 0, .5],

93: [.25, .75, 0, 0, .27778],

94: [0, .69444, 0, 0, .5],

95: [.31, .12056, .02778, 0, .5],

97: [0, .43056, 0, 0, .5],

98: [0, .69444, 0, 0, .55556],

99: [0, .43056, 0, 0, .44445],

100: [0, .69444, 0, 0, .55556],

101: [0, .43056, 0, 0, .44445],

102: [0, .69444, .07778, 0, .30556],

103: [.19444, .43056, .01389, 0, .5],

104: [0, .69444, 0, 0, .55556],

105: [0, .66786, 0, 0, .27778],

106: [.19444, .66786, 0, 0, .30556],

107: [0, .69444, 0, 0, .52778],

108: [0, .69444, 0, 0, .27778],

109: [0, .43056, 0, 0, .83334],

110: [0, .43056, 0, 0, .55556],

111: [0, .43056, 0, 0, .5],

112: [.19444, .43056, 0, 0, .55556],

113: [.19444, .43056, 0, 0, .52778],

114: [0, .43056, 0, 0, .39167],

115: [0, .43056, 0, 0, .39445],

116: [0, .61508, 0, 0, .38889],

117: [0, .43056, 0, 0, .55556],

118: [0, .43056, .01389, 0, .52778],

119: [0, .43056, .01389, 0, .72222],

120: [0, .43056, 0, 0, .52778],

121: [.19444, .43056, .01389, 0, .52778],

122: [0, .43056, 0, 0, .44445],

123: [.25, .75, 0, 0, .5],

124: [.25, .75, 0, 0, .27778],

125: [.25, .75, 0, 0, .5],

126: [.35, .31786, 0, 0, .5],

160: [0, 0, 0, 0, .25],

167: [.19444, .69444, 0, 0, .44445],

168: [0, .66786, 0, 0, .5],

172: [0, .43056, 0, 0, .66667],

176: [0, .69444, 0, 0, .75],

177: [.08333, .58333, 0, 0, .77778],

182: [.19444, .69444, 0, 0, .61111],

184: [.17014, 0, 0, 0, .44445],

198: [0, .68333, 0, 0, .90278],

215: [.08333, .58333, 0, 0, .77778],

216: [.04861, .73194, 0, 0, .77778],

223: [0, .69444, 0, 0, .5],

230: [0, .43056, 0, 0, .72222],

247: [.08333, .58333, 0, 0, .77778],

248: [.09722, .52778, 0, 0, .5],

305: [0, .43056, 0, 0, .27778],

338: [0, .68333, 0, 0, 1.01389],

339: [0, .43056, 0, 0, .77778],

567: [.19444, .43056, 0, 0, .30556],

710: [0, .69444, 0, 0, .5],

711: [0, .62847, 0, 0, .5],

713: [0, .56778, 0, 0, .5],

714: [0, .69444, 0, 0, .5],

715: [0, .69444, 0, 0, .5],

728: [0, .69444, 0, 0, .5],

729: [0, .66786, 0, 0, .27778],

730: [0, .69444, 0, 0, .75],

732: [0, .66786, 0, 0, .5],

733: [0, .69444, 0, 0, .5],

915: [0, .68333, 0, 0, .625],

916: [0, .68333, 0, 0, .83334],

920: [0, .68333, 0, 0, .77778],

923: [0, .68333, 0, 0, .69445],

926: [0, .68333, 0, 0, .66667],

928: [0, .68333, 0, 0, .75],

931: [0, .68333, 0, 0, .72222],

933: [0, .68333, 0, 0, .77778],

934: [0, .68333, 0, 0, .72222],

936: [0, .68333, 0, 0, .77778],

937: [0, .68333, 0, 0, .72222],

8211: [0, .43056, .02778, 0, .5],

8212: [0, .43056, .02778, 0, 1],

8216: [0, .69444, 0, 0, .27778],

8217: [0, .69444, 0, 0, .27778],

8220: [0, .69444, 0, 0, .5],

8221: [0, .69444, 0, 0, .5],

8224: [.19444, .69444, 0, 0, .44445],

8225: [.19444, .69444, 0, 0, .44445],

8230: [0, .12, 0, 0, 1.172],

8242: [0, .55556, 0, 0, .275],

8407: [0, .71444, .15382, 0, .5],

8463: [0, .68889, 0, 0, .54028],

8465: [0, .69444, 0, 0, .72222],

8467: [0, .69444, 0, .11111, .41667],

8472: [.19444, .43056, 0, .11111, .63646],

8476: [0, .69444, 0, 0, .72222],

8501: [0, .69444, 0, 0, .61111],

8592: [-.13313, .36687, 0, 0, 1],

8593: [.19444, .69444, 0, 0, .5],

8594: [-.13313, .36687, 0, 0, 1],

8595: [.19444, .69444, 0, 0, .5],

8596: [-.13313, .36687, 0, 0, 1],

8597: [.25, .75, 0, 0, .5],

8598: [.19444, .69444, 0, 0, 1],

8599: [.19444, .69444, 0, 0, 1],

8600: [.19444, .69444, 0, 0, 1],

8601: [.19444, .69444, 0, 0, 1],

8614: [.011, .511, 0, 0, 1],

8617: [.011, .511, 0, 0, 1.126],

8618: [.011, .511, 0, 0, 1.126],

8636: [-.13313, .36687, 0, 0, 1],

8637: [-.13313, .36687, 0, 0, 1],

8640: [-.13313, .36687, 0, 0, 1],

8641: [-.13313, .36687, 0, 0, 1],

8652: [.011, .671, 0, 0, 1],

8656: [-.13313, .36687, 0, 0, 1],

8657: [.19444, .69444, 0, 0, .61111],

8658: [-.13313, .36687, 0, 0, 1],

8659: [.19444, .69444, 0, 0, .61111],

8660: [-.13313, .36687, 0, 0, 1],

8661: [.25, .75, 0, 0, .61111],

8704: [0, .69444, 0, 0, .55556],

8706: [0, .69444, .05556, .08334, .5309],

8707: [0, .69444, 0, 0, .55556],

8709: [.05556, .75, 0, 0, .5],

8711: [0, .68333, 0, 0, .83334],

8712: [.0391, .5391, 0, 0, .66667],

8715: [.0391, .5391, 0, 0, .66667],

8722: [.08333, .58333, 0, 0, .77778],

8723: [.08333, .58333, 0, 0, .77778],

8725: [.25, .75, 0, 0, .5],

8726: [.25, .75, 0, 0, .5],

8727: [-.03472, .46528, 0, 0, .5],

8728: [-.05555, .44445, 0, 0, .5],

8729: [-.05555, .44445, 0, 0, .5],

8730: [.2, .8, 0, 0, .83334],

8733: [0, .43056, 0, 0, .77778],

8734: [0, .43056, 0, 0, 1],

8736: [0, .69224, 0, 0, .72222],

8739: [.25, .75, 0, 0, .27778],

8741: [.25, .75, 0, 0, .5],

8743: [0, .55556, 0, 0, .66667],

8744: [0, .55556, 0, 0, .66667],

8745: [0, .55556, 0, 0, .66667],

8746: [0, .55556, 0, 0, .66667],

8747: [.19444, .69444, .11111, 0, .41667],

8764: [-.13313, .36687, 0, 0, .77778],

8768: [.19444, .69444, 0, 0, .27778],

8771: [-.03625, .46375, 0, 0, .77778],

8773: [-.022, .589, 0, 0, 1],

8776: [-.01688, .48312, 0, 0, .77778],

8781: [-.03625, .46375, 0, 0, .77778],

8784: [-.133, .67, 0, 0, .778],

8801: [-.03625, .46375, 0, 0, .77778],

8804: [.13597, .63597, 0, 0, .77778],

8805: [.13597, .63597, 0, 0, .77778],

8810: [.0391, .5391, 0, 0, 1],

8811: [.0391, .5391, 0, 0, 1],

8826: [.0391, .5391, 0, 0, .77778],

8827: [.0391, .5391, 0, 0, .77778],

8834: [.0391, .5391, 0, 0, .77778],

8835: [.0391, .5391, 0, 0, .77778],

8838: [.13597, .63597, 0, 0, .77778],

8839: [.13597, .63597, 0, 0, .77778],

8846: [0, .55556, 0, 0, .66667],

8849: [.13597, .63597, 0, 0, .77778],

8850: [.13597, .63597, 0, 0, .77778],

8851: [0, .55556, 0, 0, .66667],

8852: [0, .55556, 0, 0, .66667],

8853: [.08333, .58333, 0, 0, .77778],

8854: [.08333, .58333, 0, 0, .77778],

8855: [.08333, .58333, 0, 0, .77778],

8856: [.08333, .58333, 0, 0, .77778],

8857: [.08333, .58333, 0, 0, .77778],

8866: [0, .69444, 0, 0, .61111],

8867: [0, .69444, 0, 0, .61111],

8868: [0, .69444, 0, 0, .77778],

8869: [0, .69444, 0, 0, .77778],

8872: [.249, .75, 0, 0, .867],

8900: [-.05555, .44445, 0, 0, .5],

8901: [-.05555, .44445, 0, 0, .27778],

8902: [-.03472, .46528, 0, 0, .5],

8904: [.005, .505, 0, 0, .9],

8942: [.03, .9, 0, 0, .278],

8943: [-.19, .31, 0, 0, 1.172],

8945: [-.1, .82, 0, 0, 1.282],

8968: [.25, .75, 0, 0, .44445],

8969: [.25, .75, 0, 0, .44445],

8970: [.25, .75, 0, 0, .44445],

8971: [.25, .75, 0, 0, .44445],

8994: [-.14236, .35764, 0, 0, 1],

8995: [-.14236, .35764, 0, 0, 1],

9136: [.244, .744, 0, 0, .412],

9137: [.244, .744, 0, 0, .412],

9651: [.19444, .69444, 0, 0, .88889],

9657: [-.03472, .46528, 0, 0, .5],

9661: [.19444, .69444, 0, 0, .88889],

9667: [-.03472, .46528, 0, 0, .5],

9711: [.19444, .69444, 0, 0, 1],

9824: [.12963, .69444, 0, 0, .77778],

9825: [.12963, .69444, 0, 0, .77778],

9826: [.12963, .69444, 0, 0, .77778],

9827: [.12963, .69444, 0, 0, .77778],

9837: [0, .75, 0, 0, .38889],

9838: [.19444, .69444, 0, 0, .38889],

9839: [.19444, .69444, 0, 0, .38889],

10216: [.25, .75, 0, 0, .38889],

10217: [.25, .75, 0, 0, .38889],

10222: [.244, .744, 0, 0, .412],

10223: [.244, .744, 0, 0, .412],

10229: [.011, .511, 0, 0, 1.609],

10230: [.011, .511, 0, 0, 1.638],

10231: [.011, .511, 0, 0, 1.859],

10232: [.024, .525, 0, 0, 1.609],

10233: [.024, .525, 0, 0, 1.638],

10234: [.024, .525, 0, 0, 1.858],

10236: [.011, .511, 0, 0, 1.638],

10815: [0, .68333, 0, 0, .75],

10927: [.13597, .63597, 0, 0, .77778],

10928: [.13597, .63597, 0, 0, .77778],

57376: [.19444, .69444, 0, 0, 0]

},

"Math-BoldItalic": {

65: [0, .68611, 0, 0, .86944],

66: [0, .68611, .04835, 0, .8664],

67: [0, .68611, .06979, 0, .81694],

68: [0, .68611, .03194, 0, .93812],

69: [0, .68611, .05451, 0, .81007],

70: [0, .68611, .15972, 0, .68889],

71: [0, .68611, 0, 0, .88673],

72: [0, .68611, .08229, 0, .98229],

73: [0, .68611, .07778, 0, .51111],

74: [0, .68611, .10069, 0, .63125],

75: [0, .68611, .06979, 0, .97118],

76: [0, .68611, 0, 0, .75555],

77: [0, .68611, .11424, 0, 1.14201],

78: [0, .68611, .11424, 0, .95034],

79: [0, .68611, .03194, 0, .83666],

80: [0, .68611, .15972, 0, .72309],

81: [.19444, .68611, 0, 0, .86861],

82: [0, .68611, .00421, 0, .87235],

83: [0, .68611, .05382, 0, .69271],

84: [0, .68611, .15972, 0, .63663],

85: [0, .68611, .11424, 0, .80027],

86: [0, .68611, .25555, 0, .67778],

87: [0, .68611, .15972, 0, 1.09305],

88: [0, .68611, .07778, 0, .94722],

89: [0, .68611, .25555, 0, .67458],

90: [0, .68611, .06979, 0, .77257],

97: [0, .44444, 0, 0, .63287],

98: [0, .69444, 0, 0, .52083],

99: [0, .44444, 0, 0, .51342],

100: [0, .69444, 0, 0, .60972],

101: [0, .44444, 0, 0, .55361],

102: [.19444, .69444, .11042, 0, .56806],

103: [.19444, .44444, .03704, 0, .5449],

104: [0, .69444, 0, 0, .66759],

105: [0, .69326, 0, 0, .4048],

106: [.19444, .69326, .0622, 0, .47083],

107: [0, .69444, .01852, 0, .6037],

108: [0, .69444, .0088, 0, .34815],

109: [0, .44444, 0, 0, 1.0324],

110: [0, .44444, 0, 0, .71296],

111: [0, .44444, 0, 0, .58472],

112: [.19444, .44444, 0, 0, .60092],

113: [.19444, .44444, .03704, 0, .54213],

114: [0, .44444, .03194, 0, .5287],

115: [0, .44444, 0, 0, .53125],

116: [0, .63492, 0, 0, .41528],

117: [0, .44444, 0, 0, .68102],

118: [0, .44444, .03704, 0, .56666],

119: [0, .44444, .02778, 0, .83148],

120: [0, .44444, 0, 0, .65903],

121: [.19444, .44444, .03704, 0, .59028],

122: [0, .44444, .04213, 0, .55509],

915: [0, .68611, .15972, 0, .65694],

916: [0, .68611, 0, 0, .95833],

920: [0, .68611, .03194, 0, .86722],

923: [0, .68611, 0, 0, .80555],

926: [0, .68611, .07458, 0, .84125],

928: [0, .68611, .08229, 0, .98229],

931: [0, .68611, .05451, 0, .88507],

933: [0, .68611, .15972, 0, .67083],

934: [0, .68611, 0, 0, .76666],

936: [0, .68611, .11653, 0, .71402],

937: [0, .68611, .04835, 0, .8789],

945: [0, .44444, 0, 0, .76064],

946: [.19444, .69444, .03403, 0, .65972],

947: [.19444, .44444, .06389, 0, .59003],

948: [0, .69444, .03819, 0, .52222],

949: [0, .44444, 0, 0, .52882],

950: [.19444, .69444, .06215, 0, .50833],

951: [.19444, .44444, .03704, 0, .6],

952: [0, .69444, .03194, 0, .5618],

953: [0, .44444, 0, 0, .41204],

954: [0, .44444, 0, 0, .66759],

955: [0, .69444, 0, 0, .67083],

956: [.19444, .44444, 0, 0, .70787],

957: [0, .44444, .06898, 0, .57685],

958: [.19444, .69444, .03021, 0, .50833],

959: [0, .44444, 0, 0, .58472],

960: [0, .44444, .03704, 0, .68241],

961: [.19444, .44444, 0, 0, .6118],

962: [.09722, .44444, .07917, 0, .42361],

963: [0, .44444, .03704, 0, .68588],

964: [0, .44444, .13472, 0, .52083],

965: [0, .44444, .03704, 0, .63055],

966: [.19444, .44444, 0, 0, .74722],

967: [.19444, .44444, 0, 0, .71805],

968: [.19444, .69444, .03704, 0, .75833],

969: [0, .44444, .03704, 0, .71782],

977: [0, .69444, 0, 0, .69155],

981: [.19444, .69444, 0, 0, .7125],

982: [0, .44444, .03194, 0, .975],

1009: [.19444, .44444, 0, 0, .6118],

1013: [0, .44444, 0, 0, .48333]

},

"Math-Italic": {

65: [0, .68333, 0, .13889, .75],

66: [0, .68333, .05017, .08334, .75851],

67: [0, .68333, .07153, .08334, .71472],

68: [0, .68333, .02778, .05556, .82792],

69: [0, .68333, .05764, .08334, .7382],

70: [0, .68333, .13889, .08334, .64306],

71: [0, .68333, 0, .08334, .78625],

72: [0, .68333, .08125, .05556, .83125],

73: [0, .68333, .07847, .11111, .43958],

74: [0, .68333, .09618, .16667, .55451],

75: [0, .68333, .07153, .05556, .84931],

76: [0, .68333, 0, .02778, .68056],

77: [0, .68333, .10903, .08334, .97014],

78: [0, .68333, .10903, .08334, .80347],

79: [0, .68333, .02778, .08334, .76278],

80: [0, .68333, .13889, .08334, .64201],

81: [.19444, .68333, 0, .08334, .79056],

82: [0, .68333, .00773, .08334, .75929],

83: [0, .68333, .05764, .08334, .6132],

84: [0, .68333, .13889, .08334, .58438],

85: [0, .68333, .10903, .02778, .68278],

86: [0, .68333, .22222, 0, .58333],

87: [0, .68333, .13889, 0, .94445],

88: [0, .68333, .07847, .08334, .82847],

89: [0, .68333, .22222, 0, .58056],

90: [0, .68333, .07153, .08334, .68264],

97: [0, .43056, 0, 0, .52859],

98: [0, .69444, 0, 0, .42917],

99: [0, .43056, 0, .05556, .43276],

100: [0, .69444, 0, .16667, .52049],

101: [0, .43056, 0, .05556, .46563],

102: [.19444, .69444, .10764, .16667, .48959],

103: [.19444, .43056, .03588, .02778, .47697],

104: [0, .69444, 0, 0, .57616],

105: [0, .65952, 0, 0, .34451],

106: [.19444, .65952, .05724, 0, .41181],

107: [0, .69444, .03148, 0, .5206],

108: [0, .69444, .01968, .08334, .29838],

109: [0, .43056, 0, 0, .87801],

110: [0, .43056, 0, 0, .60023],

111: [0, .43056, 0, .05556, .48472],

112: [.19444, .43056, 0, .08334, .50313],

113: [.19444, .43056, .03588, .08334, .44641],

114: [0, .43056, .02778, .05556, .45116],

115: [0, .43056, 0, .05556, .46875],

116: [0, .61508, 0, .08334, .36111],

117: [0, .43056, 0, .02778, .57246],

118: [0, .43056, .03588, .02778, .48472],

119: [0, .43056, .02691, .08334, .71592],

120: [0, .43056, 0, .02778, .57153],

121: [.19444, .43056, .03588, .05556, .49028],

122: [0, .43056, .04398, .05556, .46505],

915: [0, .68333, .13889, .08334, .61528],

916: [0, .68333, 0, .16667, .83334],

920: [0, .68333, .02778, .08334, .76278],

923: [0, .68333, 0, .16667, .69445],

926: [0, .68333, .07569, .08334, .74236],

928: [0, .68333, .08125, .05556, .83125],

931: [0, .68333, .05764, .08334, .77986],

933: [0, .68333, .13889, .05556, .58333],

934: [0, .68333, 0, .08334, .66667],

936: [0, .68333, .11, .05556, .61222],

937: [0, .68333, .05017, .08334, .7724],

945: [0, .43056, .0037, .02778, .6397],

946: [.19444, .69444, .05278, .08334, .56563],

947: [.19444, .43056, .05556, 0, .51773],

948: [0, .69444, .03785, .05556, .44444],

949: [0, .43056, 0, .08334, .46632],

950: [.19444, .69444, .07378, .08334, .4375],

951: [.19444, .43056, .03588, .05556, .49653],

952: [0, .69444, .02778, .08334, .46944],

953: [0, .43056, 0, .05556, .35394],

954: [0, .43056, 0, 0, .57616],

955: [0, .69444, 0, 0, .58334],

956: [.19444, .43056, 0, .02778, .60255],

957: [0, .43056, .06366, .02778, .49398],

958: [.19444, .69444, .04601, .11111, .4375],

959: [0, .43056, 0, .05556, .48472],

960: [0, .43056, .03588, 0, .57003],

961: [.19444, .43056, 0, .08334, .51702],

962: [.09722, .43056, .07986, .08334, .36285],

963: [0, .43056, .03588, 0, .57141],

964: [0, .43056, .1132, .02778, .43715],

965: [0, .43056, .03588, .02778, .54028],

966: [.19444, .43056, 0, .08334, .65417],

967: [.19444, .43056, 0, .05556, .62569],

968: [.19444, .69444, .03588, .11111, .65139],

969: [0, .43056, .03588, 0, .62245],

977: [0, .69444, 0, .08334, .59144],

981: [.19444, .69444, 0, .08334, .59583],

982: [0, .43056, .02778, 0, .82813],

1009: [.19444, .43056, 0, .08334, .51702],

1013: [0, .43056, 0, .05556, .4059]

},

"Math-Regular": {

65: [0, .68333, 0, .13889, .75],

66: [0, .68333, .05017, .08334, .75851],

67: [0, .68333, .07153, .08334, .71472],

68: [0, .68333, .02778, .05556, .82792],

69: [0, .68333, .05764, .08334, .7382],

70: [0, .68333, .13889, .08334, .64306],

71: [0, .68333, 0, .08334, .78625],

72: [0, .68333, .08125, .05556, .83125],

73: [0, .68333, .07847, .11111, .43958],

74: [0, .68333, .09618, .16667, .55451],

75: [0, .68333, .07153, .05556, .84931],

76: [0, .68333, 0, .02778, .68056],

77: [0, .68333, .10903, .08334, .97014],

78: [0, .68333, .10903, .08334, .80347],

79: [0, .68333, .02778, .08334, .76278],

80: [0, .68333, .13889, .08334, .64201],

81: [.19444, .68333, 0, .08334, .79056],

82: [0, .68333, .00773, .08334, .75929],

83: [0, .68333, .05764, .08334, .6132],

84: [0, .68333, .13889, .08334, .58438],

85: [0, .68333, .10903, .02778, .68278],

86: [0, .68333, .22222, 0, .58333],

87: [0, .68333, .13889, 0, .94445],

88: [0, .68333, .07847, .08334, .82847],

89: [0, .68333, .22222, 0, .58056],

90: [0, .68333, .07153, .08334, .68264],

97: [0, .43056, 0, 0, .52859],

98: [0, .69444, 0, 0, .42917],

99: [0, .43056, 0, .05556, .43276],

100: [0, .69444, 0, .16667, .52049],

101: [0, .43056, 0, .05556, .46563],

102: [.19444, .69444, .10764, .16667, .48959],

103: [.19444, .43056, .03588, .02778, .47697],

104: [0, .69444, 0, 0, .57616],

105: [0, .65952, 0, 0, .34451],

106: [.19444, .65952, .05724, 0, .41181],

107: [0, .69444, .03148, 0, .5206],

108: [0, .69444, .01968, .08334, .29838],

109: [0, .43056, 0, 0, .87801],

110: [0, .43056, 0, 0, .60023],

111: [0, .43056, 0, .05556, .48472],

112: [.19444, .43056, 0, .08334, .50313],

113: [.19444, .43056, .03588, .08334, .44641],

114: [0, .43056, .02778, .05556, .45116],

115: [0, .43056, 0, .05556, .46875],

116: [0, .61508, 0, .08334, .36111],

117: [0, .43056, 0, .02778, .57246],

118: [0, .43056, .03588, .02778, .48472],

119: [0, .43056, .02691, .08334, .71592],

120: [0, .43056, 0, .02778, .57153],

121: [.19444, .43056, .03588, .05556, .49028],

122: [0, .43056, .04398, .05556, .46505],

915: [0, .68333, .13889, .08334, .61528],

916: [0, .68333, 0, .16667, .83334],

920: [0, .68333, .02778, .08334, .76278],

923: [0, .68333, 0, .16667, .69445],

926: [0, .68333, .07569, .08334, .74236],

928: [0, .68333, .08125, .05556, .83125],

931: [0, .68333, .05764, .08334, .77986],

933: [0, .68333, .13889, .05556, .58333],

934: [0, .68333, 0, .08334, .66667],

936: [0, .68333, .11, .05556, .61222],

937: [0, .68333, .05017, .08334, .7724],

945: [0, .43056, .0037, .02778, .6397],

946: [.19444, .69444, .05278, .08334, .56563],

947: [.19444, .43056, .05556, 0, .51773],

948: [0, .69444, .03785, .05556, .44444],

949: [0, .43056, 0, .08334, .46632],

950: [.19444, .69444, .07378, .08334, .4375],

951: [.19444, .43056, .03588, .05556, .49653],

952: [0, .69444, .02778, .08334, .46944],

953: [0, .43056, 0, .05556, .35394],

954: [0, .43056, 0, 0, .57616],

955: [0, .69444, 0, 0, .58334],

956: [.19444, .43056, 0, .02778, .60255],

957: [0, .43056, .06366, .02778, .49398],

958: [.19444, .69444, .04601, .11111, .4375],

959: [0, .43056, 0, .05556, .48472],

960: [0, .43056, .03588, 0, .57003],

961: [.19444, .43056, 0, .08334, .51702],

962: [.09722, .43056, .07986, .08334, .36285],

963: [0, .43056, .03588, 0, .57141],

964: [0, .43056, .1132, .02778, .43715],

965: [0, .43056, .03588, .02778, .54028],

966: [.19444, .43056, 0, .08334, .65417],

967: [.19444, .43056, 0, .05556, .62569],

968: [.19444, .69444, .03588, .11111, .65139],

969: [0, .43056, .03588, 0, .62245],

977: [0, .69444, 0, .08334, .59144],

981: [.19444, .69444, 0, .08334, .59583],

982: [0, .43056, .02778, 0, .82813],

1009: [.19444, .43056, 0, .08334, .51702],

1013: [0, .43056, 0, .05556, .4059]

},

"SansSerif-Bold": {

33: [0, .69444, 0, 0, .36667],

34: [0, .69444, 0, 0, .55834],

35: [.19444, .69444, 0, 0, .91667],

36: [.05556, .75, 0, 0, .55],

37: [.05556, .75, 0, 0, 1.02912],

38: [0, .69444, 0, 0, .83056],

39: [0, .69444, 0, 0, .30556],

40: [.25, .75, 0, 0, .42778],

41: [.25, .75, 0, 0, .42778],

42: [0, .75, 0, 0, .55],

43: [.11667, .61667, 0, 0, .85556],

44: [.10556, .13056, 0, 0, .30556],

45: [0, .45833, 0, 0, .36667],

46: [0, .13056, 0, 0, .30556],

47: [.25, .75, 0, 0, .55],

48: [0, .69444, 0, 0, .55],

49: [0, .69444, 0, 0, .55],

50: [0, .69444, 0, 0, .55],

51: [0, .69444, 0, 0, .55],

52: [0, .69444, 0, 0, .55],

53: [0, .69444, 0, 0, .55],

54: [0, .69444, 0, 0, .55],

55: [0, .69444, 0, 0, .55],

56: [0, .69444, 0, 0, .55],

57: [0, .69444, 0, 0, .55],

58: [0, .45833, 0, 0, .30556],

59: [.10556, .45833, 0, 0, .30556],

61: [-.09375, .40625, 0, 0, .85556],

63: [0, .69444, 0, 0, .51945],

64: [0, .69444, 0, 0, .73334],

65: [0, .69444, 0, 0, .73334],

66: [0, .69444, 0, 0, .73334],

67: [0, .69444, 0, 0, .70278],

68: [0, .69444, 0, 0, .79445],

69: [0, .69444, 0, 0, .64167],

70: [0, .69444, 0, 0, .61111],

71: [0, .69444, 0, 0, .73334],

72: [0, .69444, 0, 0, .79445],

73: [0, .69444, 0, 0, .33056],

74: [0, .69444, 0, 0, .51945],

75: [0, .69444, 0, 0, .76389],

76: [0, .69444, 0, 0, .58056],

77: [0, .69444, 0, 0, .97778],

78: [0, .69444, 0, 0, .79445],

79: [0, .69444, 0, 0, .79445],

80: [0, .69444, 0, 0, .70278],

81: [.10556, .69444, 0, 0, .79445],

82: [0, .69444, 0, 0, .70278],

83: [0, .69444, 0, 0, .61111],

84: [0, .69444, 0, 0, .73334],

85: [0, .69444, 0, 0, .76389],

86: [0, .69444, .01528, 0, .73334],

87: [0, .69444, .01528, 0, 1.03889],

88: [0, .69444, 0, 0, .73334],

89: [0, .69444, .0275, 0, .73334],

90: [0, .69444, 0, 0, .67223],

91: [.25, .75, 0, 0, .34306],

93: [.25, .75, 0, 0, .34306],

94: [0, .69444, 0, 0, .55],

95: [.35, .10833, .03056, 0, .55],

97: [0, .45833, 0, 0, .525],

98: [0, .69444, 0, 0, .56111],

99: [0, .45833, 0, 0, .48889],

100: [0, .69444, 0, 0, .56111],

101: [0, .45833, 0, 0, .51111],

102: [0, .69444, .07639, 0, .33611],

103: [.19444, .45833, .01528, 0, .55],

104: [0, .69444, 0, 0, .56111],

105: [0, .69444, 0, 0, .25556],

106: [.19444, .69444, 0, 0, .28611],

107: [0, .69444, 0, 0, .53056],

108: [0, .69444, 0, 0, .25556],

109: [0, .45833, 0, 0, .86667],

110: [0, .45833, 0, 0, .56111],

111: [0, .45833, 0, 0, .55],

112: [.19444, .45833, 0, 0, .56111],

113: [.19444, .45833, 0, 0, .56111],

114: [0, .45833, .01528, 0, .37222],

115: [0, .45833, 0, 0, .42167],

116: [0, .58929, 0, 0, .40417],

117: [0, .45833, 0, 0, .56111],

118: [0, .45833, .01528, 0, .5],

119: [0, .45833, .01528, 0, .74445],

120: [0, .45833, 0, 0, .5],

121: [.19444, .45833, .01528, 0, .5],

122: [0, .45833, 0, 0, .47639],

126: [.35, .34444, 0, 0, .55],

168: [0, .69444, 0, 0, .55],

176: [0, .69444, 0, 0, .73334],

180: [0, .69444, 0, 0, .55],

184: [.17014, 0, 0, 0, .48889],

305: [0, .45833, 0, 0, .25556],

567: [.19444, .45833, 0, 0, .28611],

710: [0, .69444, 0, 0, .55],

711: [0, .63542, 0, 0, .55],

713: [0, .63778, 0, 0, .55],

728: [0, .69444, 0, 0, .55],

729: [0, .69444, 0, 0, .30556],

730: [0, .69444, 0, 0, .73334],

732: [0, .69444, 0, 0, .55],

733: [0, .69444, 0, 0, .55],

915: [0, .69444, 0, 0, .58056],

916: [0, .69444, 0, 0, .91667],

920: [0, .69444, 0, 0, .85556],

923: [0, .69444, 0, 0, .67223],

926: [0, .69444, 0, 0, .73334],

928: [0, .69444, 0, 0, .79445],

931: [0, .69444, 0, 0, .79445],

933: [0, .69444, 0, 0, .85556],

934: [0, .69444, 0, 0, .79445],

936: [0, .69444, 0, 0, .85556],

937: [0, .69444, 0, 0, .79445],

8211: [0, .45833, .03056, 0, .55],

8212: [0, .45833, .03056, 0, 1.10001],

8216: [0, .69444, 0, 0, .30556],

8217: [0, .69444, 0, 0, .30556],

8220: [0, .69444, 0, 0, .55834],

8221: [0, .69444, 0, 0, .55834]

},

"SansSerif-Italic": {

33: [0, .69444, .05733, 0, .31945],

34: [0, .69444, .00316, 0, .5],

35: [.19444, .69444, .05087, 0, .83334],

36: [.05556, .75, .11156, 0, .5],

37: [.05556, .75, .03126, 0, .83334],

38: [0, .69444, .03058, 0, .75834],

39: [0, .69444, .07816, 0, .27778],

40: [.25, .75, .13164, 0, .38889],

41: [.25, .75, .02536, 0, .38889],

42: [0, .75, .11775, 0, .5],

43: [.08333, .58333, .02536, 0, .77778],

44: [.125, .08333, 0, 0, .27778],

45: [0, .44444, .01946, 0, .33333],

46: [0, .08333, 0, 0, .27778],

47: [.25, .75, .13164, 0, .5],

48: [0, .65556, .11156, 0, .5],

49: [0, .65556, .11156, 0, .5],

50: [0, .65556, .11156, 0, .5],

51: [0, .65556, .11156, 0, .5],

52: [0, .65556, .11156, 0, .5],

53: [0, .65556, .11156, 0, .5],

54: [0, .65556, .11156, 0, .5],

55: [0, .65556, .11156, 0, .5],

56: [0, .65556, .11156, 0, .5],

57: [0, .65556, .11156, 0, .5],

58: [0, .44444, .02502, 0, .27778],

59: [.125, .44444, .02502, 0, .27778],

61: [-.13, .37, .05087, 0, .77778],

63: [0, .69444, .11809, 0, .47222],

64: [0, .69444, .07555, 0, .66667],

65: [0, .69444, 0, 0, .66667],

66: [0, .69444, .08293, 0, .66667],

67: [0, .69444, .11983, 0, .63889],

68: [0, .69444, .07555, 0, .72223],

69: [0, .69444, .11983, 0, .59722],

70: [0, .69444, .13372, 0, .56945],

71: [0, .69444, .11983, 0, .66667],

72: [0, .69444, .08094, 0, .70834],

73: [0, .69444, .13372, 0, .27778],

74: [0, .69444, .08094, 0, .47222],

75: [0, .69444, .11983, 0, .69445],

76: [0, .69444, 0, 0, .54167],

77: [0, .69444, .08094, 0, .875],

78: [0, .69444, .08094, 0, .70834],

79: [0, .69444, .07555, 0, .73611],

80: [0, .69444, .08293, 0, .63889],

81: [.125, .69444, .07555, 0, .73611],

82: [0, .69444, .08293, 0, .64584],

83: [0, .69444, .09205, 0, .55556],

84: [0, .69444, .13372, 0, .68056],

85: [0, .69444, .08094, 0, .6875],

86: [0, .69444, .1615, 0, .66667],

87: [0, .69444, .1615, 0, .94445],

88: [0, .69444, .13372, 0, .66667],

89: [0, .69444, .17261, 0, .66667],

90: [0, .69444, .11983, 0, .61111],

91: [.25, .75, .15942, 0, .28889],

93: [.25, .75, .08719, 0, .28889],

94: [0, .69444, .0799, 0, .5],

95: [.35, .09444, .08616, 0, .5],

97: [0, .44444, .00981, 0, .48056],

98: [0, .69444, .03057, 0, .51667],

99: [0, .44444, .08336, 0, .44445],

100: [0, .69444, .09483, 0, .51667],

101: [0, .44444, .06778, 0, .44445],

102: [0, .69444, .21705, 0, .30556],

103: [.19444, .44444, .10836, 0, .5],

104: [0, .69444, .01778, 0, .51667],

105: [0, .67937, .09718, 0, .23889],

106: [.19444, .67937, .09162, 0, .26667],

107: [0, .69444, .08336, 0, .48889],

108: [0, .69444, .09483, 0, .23889],

109: [0, .44444, .01778, 0, .79445],

110: [0, .44444, .01778, 0, .51667],

111: [0, .44444, .06613, 0, .5],

112: [.19444, .44444, .0389, 0, .51667],

113: [.19444, .44444, .04169, 0, .51667],

114: [0, .44444, .10836, 0, .34167],

115: [0, .44444, .0778, 0, .38333],

116: [0, .57143, .07225, 0, .36111],

117: [0, .44444, .04169, 0, .51667],

118: [0, .44444, .10836, 0, .46111],

119: [0, .44444, .10836, 0, .68334],

120: [0, .44444, .09169, 0, .46111],

121: [.19444, .44444, .10836, 0, .46111],

122: [0, .44444, .08752, 0, .43472],

126: [.35, .32659, .08826, 0, .5],

168: [0, .67937, .06385, 0, .5],

176: [0, .69444, 0, 0, .73752],

184: [.17014, 0, 0, 0, .44445],

305: [0, .44444, .04169, 0, .23889],

567: [.19444, .44444, .04169, 0, .26667],

710: [0, .69444, .0799, 0, .5],

711: [0, .63194, .08432, 0, .5],

713: [0, .60889, .08776, 0, .5],

714: [0, .69444, .09205, 0, .5],

715: [0, .69444, 0, 0, .5],

728: [0, .69444, .09483, 0, .5],

729: [0, .67937, .07774, 0, .27778],

730: [0, .69444, 0, 0, .73752],

732: [0, .67659, .08826, 0, .5],

733: [0, .69444, .09205, 0, .5],

915: [0, .69444, .13372, 0, .54167],

916: [0, .69444, 0, 0, .83334],

920: [0, .69444, .07555, 0, .77778],

923: [0, .69444, 0, 0, .61111],

926: [0, .69444, .12816, 0, .66667],

928: [0, .69444, .08094, 0, .70834],

931: [0, .69444, .11983, 0, .72222],

933: [0, .69444, .09031, 0, .77778],

934: [0, .69444, .04603, 0, .72222],

936: [0, .69444, .09031, 0, .77778],

937: [0, .69444, .08293, 0, .72222],

8211: [0, .44444, .08616, 0, .5],

8212: [0, .44444, .08616, 0, 1],

8216: [0, .69444, .07816, 0, .27778],

8217: [0, .69444, .07816, 0, .27778],

8220: [0, .69444, .14205, 0, .5],

8221: [0, .69444, .00316, 0, .5]

},

"SansSerif-Regular": {

33: [0, .69444, 0, 0, .31945],

34: [0, .69444, 0, 0, .5],

35: [.19444, .69444, 0, 0, .83334],

36: [.05556, .75, 0, 0, .5],

37: [.05556, .75, 0, 0, .83334],

38: [0, .69444, 0, 0, .75834],

39: [0, .69444, 0, 0, .27778],

40: [.25, .75, 0, 0, .38889],

41: [.25, .75, 0, 0, .38889],

42: [0, .75, 0, 0, .5],

43: [.08333, .58333, 0, 0, .77778],

44: [.125, .08333, 0, 0, .27778],

45: [0, .44444, 0, 0, .33333],

46: [0, .08333, 0, 0, .27778],

47: [.25, .75, 0, 0, .5],

48: [0, .65556, 0, 0, .5],

49: [0, .65556, 0, 0, .5],

50: [0, .65556, 0, 0, .5],

51: [0, .65556, 0, 0, .5],

52: [0, .65556, 0, 0, .5],

53: [0, .65556, 0, 0, .5],

54: [0, .65556, 0, 0, .5],

55: [0, .65556, 0, 0, .5],

56: [0, .65556, 0, 0, .5],

57: [0, .65556, 0, 0, .5],

58: [0, .44444, 0, 0, .27778],

59: [.125, .44444, 0, 0, .27778],

61: [-.13, .37, 0, 0, .77778],

63: [0, .69444, 0, 0, .47222],

64: [0, .69444, 0, 0, .66667],

65: [0, .69444, 0, 0, .66667],

66: [0, .69444, 0, 0, .66667],

67: [0, .69444, 0, 0, .63889],

68: [0, .69444, 0, 0, .72223],

69: [0, .69444, 0, 0, .59722],

70: [0, .69444, 0, 0, .56945],

71: [0, .69444, 0, 0, .66667],

72: [0, .69444, 0, 0, .70834],

73: [0, .69444, 0, 0, .27778],

74: [0, .69444, 0, 0, .47222],

75: [0, .69444, 0, 0, .69445],

76: [0, .69444, 0, 0, .54167],

77: [0, .69444, 0, 0, .875],

78: [0, .69444, 0, 0, .70834],

79: [0, .69444, 0, 0, .73611],

80: [0, .69444, 0, 0, .63889],

81: [.125, .69444, 0, 0, .73611],

82: [0, .69444, 0, 0, .64584],

83: [0, .69444, 0, 0, .55556],

84: [0, .69444, 0, 0, .68056],

85: [0, .69444, 0, 0, .6875],

86: [0, .69444, .01389, 0, .66667],

87: [0, .69444, .01389, 0, .94445],

88: [0, .69444, 0, 0, .66667],

89: [0, .69444, .025, 0, .66667],

90: [0, .69444, 0, 0, .61111],

91: [.25, .75, 0, 0, .28889],

93: [.25, .75, 0, 0, .28889],

94: [0, .69444, 0, 0, .5],

95: [.35, .09444, .02778, 0, .5],

97: [0, .44444, 0, 0, .48056],

98: [0, .69444, 0, 0, .51667],

99: [0, .44444, 0, 0, .44445],

100: [0, .69444, 0, 0, .51667],

101: [0, .44444, 0, 0, .44445],

102: [0, .69444, .06944, 0, .30556],

103: [.19444, .44444, .01389, 0, .5],

104: [0, .69444, 0, 0, .51667],

105: [0, .67937, 0, 0, .23889],

106: [.19444, .67937, 0, 0, .26667],

107: [0, .69444, 0, 0, .48889],

108: [0, .69444, 0, 0, .23889],

109: [0, .44444, 0, 0, .79445],

110: [0, .44444, 0, 0, .51667],

111: [0, .44444, 0, 0, .5],

112: [.19444, .44444, 0, 0, .51667],

113: [.19444, .44444, 0, 0, .51667],

114: [0, .44444, .01389, 0, .34167],

115: [0, .44444, 0, 0, .38333],

116: [0, .57143, 0, 0, .36111],

117: [0, .44444, 0, 0, .51667],

118: [0, .44444, .01389, 0, .46111],

119: [0, .44444, .01389, 0, .68334],

120: [0, .44444, 0, 0, .46111],

121: [.19444, .44444, .01389, 0, .46111],

122: [0, .44444, 0, 0, .43472],

126: [.35, .32659, 0, 0, .5],

168: [0, .67937, 0, 0, .5],

176: [0, .69444, 0, 0, .66667],

184: [.17014, 0, 0, 0, .44445],

305: [0, .44444, 0, 0, .23889],

567: [.19444, .44444, 0, 0, .26667],

710: [0, .69444, 0, 0, .5],

711: [0, .63194, 0, 0, .5],

713: [0, .60889, 0, 0, .5],

714: [0, .69444, 0, 0, .5],

715: [0, .69444, 0, 0, .5],

728: [0, .69444, 0, 0, .5],

729: [0, .67937, 0, 0, .27778],

730: [0, .69444, 0, 0, .66667],

732: [0, .67659, 0, 0, .5],

733: [0, .69444, 0, 0, .5],

915: [0, .69444, 0, 0, .54167],

916: [0, .69444, 0, 0, .83334],

920: [0, .69444, 0, 0, .77778],

923: [0, .69444, 0, 0, .61111],

926: [0, .69444, 0, 0, .66667],

928: [0, .69444, 0, 0, .70834],

931: [0, .69444, 0, 0, .72222],

933: [0, .69444, 0, 0, .77778],

934: [0, .69444, 0, 0, .72222],

936: [0, .69444, 0, 0, .77778],

937: [0, .69444, 0, 0, .72222],

8211: [0, .44444, .02778, 0, .5],

8212: [0, .44444, .02778, 0, 1],

8216: [0, .69444, 0, 0, .27778],

8217: [0, .69444, 0, 0, .27778],

8220: [0, .69444, 0, 0, .5],

8221: [0, .69444, 0, 0, .5]

},

"Script-Regular": {

65: [0, .7, .22925, 0, .80253],

66: [0, .7, .04087, 0, .90757],

67: [0, .7, .1689, 0, .66619],

68: [0, .7, .09371, 0, .77443],

69: [0, .7, .18583, 0, .56162],

70: [0, .7, .13634, 0, .89544],

71: [0, .7, .17322, 0, .60961],

72: [0, .7, .29694, 0, .96919],

73: [0, .7, .19189, 0, .80907],

74: [.27778, .7, .19189, 0, 1.05159],

75: [0, .7, .31259, 0, .91364],

76: [0, .7, .19189, 0, .87373],

77: [0, .7, .15981, 0, 1.08031],

78: [0, .7, .3525, 0, .9015],

79: [0, .7, .08078, 0, .73787],

80: [0, .7, .08078, 0, 1.01262],

81: [0, .7, .03305, 0, .88282],

82: [0, .7, .06259, 0, .85],

83: [0, .7, .19189, 0, .86767],

84: [0, .7, .29087, 0, .74697],

85: [0, .7, .25815, 0, .79996],

86: [0, .7, .27523, 0, .62204],

87: [0, .7, .27523, 0, .80532],

88: [0, .7, .26006, 0, .94445],

89: [0, .7, .2939, 0, .70961],

90: [0, .7, .24037, 0, .8212]

},

"Size1-Regular": {

40: [.35001, .85, 0, 0, .45834],

41: [.35001, .85, 0, 0, .45834],

47: [.35001, .85, 0, 0, .57778],

91: [.35001, .85, 0, 0, .41667],

92: [.35001, .85, 0, 0, .57778],

93: [.35001, .85, 0, 0, .41667],

123: [.35001, .85, 0, 0, .58334],

125: [.35001, .85, 0, 0, .58334],

710: [0, .72222, 0, 0, .55556],

732: [0, .72222, 0, 0, .55556],

770: [0, .72222, 0, 0, .55556],

771: [0, .72222, 0, 0, .55556],

8214: [-99e-5, .601, 0, 0, .77778],

8593: [1e-5, .6, 0, 0, .66667],

8595: [1e-5, .6, 0, 0, .66667],

8657: [1e-5, .6, 0, 0, .77778],

8659: [1e-5, .6, 0, 0, .77778],

8719: [.25001, .75, 0, 0, .94445],

8720: [.25001, .75, 0, 0, .94445],

8721: [.25001, .75, 0, 0, 1.05556],

8730: [.35001, .85, 0, 0, 1],

8739: [-.00599, .606, 0, 0, .33333],

8741: [-.00599, .606, 0, 0, .55556],

8747: [.30612, .805, .19445, 0, .47222],

8748: [.306, .805, .19445, 0, .47222],

8749: [.306, .805, .19445, 0, .47222],

8750: [.30612, .805, .19445, 0, .47222],

8896: [.25001, .75, 0, 0, .83334],

8897: [.25001, .75, 0, 0, .83334],

8898: [.25001, .75, 0, 0, .83334],

8899: [.25001, .75, 0, 0, .83334],

8968: [.35001, .85, 0, 0, .47222],

8969: [.35001, .85, 0, 0, .47222],

8970: [.35001, .85, 0, 0, .47222],

8971: [.35001, .85, 0, 0, .47222],

9168: [-99e-5, .601, 0, 0, .66667],

10216: [.35001, .85, 0, 0, .47222],

10217: [.35001, .85, 0, 0, .47222],

10752: [.25001, .75, 0, 0, 1.11111],

10753: [.25001, .75, 0, 0, 1.11111],

10754: [.25001, .75, 0, 0, 1.11111],

10756: [.25001, .75, 0, 0, .83334],

10758: [.25001, .75, 0, 0, .83334]

},

"Size2-Regular": {

40: [.65002, 1.15, 0, 0, .59722],

41: [.65002, 1.15, 0, 0, .59722],

47: [.65002, 1.15, 0, 0, .81111],

91: [.65002, 1.15, 0, 0, .47222],

92: [.65002, 1.15, 0, 0, .81111],

93: [.65002, 1.15, 0, 0, .47222],

123: [.65002, 1.15, 0, 0, .66667],

125: [.65002, 1.15, 0, 0, .66667],

710: [0, .75, 0, 0, 1],

732: [0, .75, 0, 0, 1],

770: [0, .75, 0, 0, 1],

771: [0, .75, 0, 0, 1],

8719: [.55001, 1.05, 0, 0, 1.27778],

8720: [.55001, 1.05, 0, 0, 1.27778],

8721: [.55001, 1.05, 0, 0, 1.44445],

8730: [.65002, 1.15, 0, 0, 1],

8747: [.86225, 1.36, .44445, 0, .55556],

8748: [.862, 1.36, .44445, 0, .55556],

8749: [.862, 1.36, .44445, 0, .55556],

8750: [.86225, 1.36, .44445, 0, .55556],

8896: [.55001, 1.05, 0, 0, 1.11111],

8897: [.55001, 1.05, 0, 0, 1.11111],

8898: [.55001, 1.05, 0, 0, 1.11111],

8899: [.55001, 1.05, 0, 0, 1.11111],

8968: [.65002, 1.15, 0, 0, .52778],

8969: [.65002, 1.15, 0, 0, .52778],

8970: [.65002, 1.15, 0, 0, .52778],

8971: [.65002, 1.15, 0, 0, .52778],

10216: [.65002, 1.15, 0, 0, .61111],

10217: [.65002, 1.15, 0, 0, .61111],

10752: [.55001, 1.05, 0, 0, 1.51112],

10753: [.55001, 1.05, 0, 0, 1.51112],

10754: [.55001, 1.05, 0, 0, 1.51112],

10756: [.55001, 1.05, 0, 0, 1.11111],

10758: [.55001, 1.05, 0, 0, 1.11111]

},

"Size3-Regular": {

40: [.95003, 1.45, 0, 0, .73611],

41: [.95003, 1.45, 0, 0, .73611],

47: [.95003, 1.45, 0, 0, 1.04445],

91: [.95003, 1.45, 0, 0, .52778],

92: [.95003, 1.45, 0, 0, 1.04445],

93: [.95003, 1.45, 0, 0, .52778],

123: [.95003, 1.45, 0, 0, .75],

125: [.95003, 1.45, 0, 0, .75],

710: [0, .75, 0, 0, 1.44445],

732: [0, .75, 0, 0, 1.44445],

770: [0, .75, 0, 0, 1.44445],

771: [0, .75, 0, 0, 1.44445],

8730: [.95003, 1.45, 0, 0, 1],

8968: [.95003, 1.45, 0, 0, .58334],

8969: [.95003, 1.45, 0, 0, .58334],

8970: [.95003, 1.45, 0, 0, .58334],

8971: [.95003, 1.45, 0, 0, .58334],

10216: [.95003, 1.45, 0, 0, .75],

10217: [.95003, 1.45, 0, 0, .75]

},

"Size4-Regular": {

40: [1.25003, 1.75, 0, 0, .79167],

41: [1.25003, 1.75, 0, 0, .79167],

47: [1.25003, 1.75, 0, 0, 1.27778],

91: [1.25003, 1.75, 0, 0, .58334],

92: [1.25003, 1.75, 0, 0, 1.27778],

93: [1.25003, 1.75, 0, 0, .58334],

123: [1.25003, 1.75, 0, 0, .80556],

125: [1.25003, 1.75, 0, 0, .80556],

710: [0, .825, 0, 0, 1.8889],

732: [0, .825, 0, 0, 1.8889],

770: [0, .825, 0, 0, 1.8889],

771: [0, .825, 0, 0, 1.8889],

8730: [1.25003, 1.75, 0, 0, 1],

8968: [1.25003, 1.75, 0, 0, .63889],

8969: [1.25003, 1.75, 0, 0, .63889],

8970: [1.25003, 1.75, 0, 0, .63889],

8971: [1.25003, 1.75, 0, 0, .63889],

9115: [.64502, 1.155, 0, 0, .875],

9116: [1e-5, .6, 0, 0, .875],

9117: [.64502, 1.155, 0, 0, .875],

9118: [.64502, 1.155, 0, 0, .875],

9119: [1e-5, .6, 0, 0, .875],

9120: [.64502, 1.155, 0, 0, .875],

9121: [.64502, 1.155, 0, 0, .66667],

9122: [-99e-5, .601, 0, 0, .66667],

9123: [.64502, 1.155, 0, 0, .66667],

9124: [.64502, 1.155, 0, 0, .66667],

9125: [-99e-5, .601, 0, 0, .66667],

9126: [.64502, 1.155, 0, 0, .66667],

9127: [1e-5, .9, 0, 0, .88889],

9128: [.65002, 1.15, 0, 0, .88889],

9129: [.90001, 0, 0, 0, .88889],

9130: [0, .3, 0, 0, .88889],

9131: [1e-5, .9, 0, 0, .88889],

9132: [.65002, 1.15, 0, 0, .88889],

9133: [.90001, 0, 0, 0, .88889],

9143: [.88502, .915, 0, 0, 1.05556],

10216: [1.25003, 1.75, 0, 0, .80556],

10217: [1.25003, 1.75, 0, 0, .80556],

57344: [-.00499, .605, 0, 0, 1.05556],

57345: [-.00499, .605, 0, 0, 1.05556],

57680: [0, .12, 0, 0, .45],

57681: [0, .12, 0, 0, .45],

57682: [0, .12, 0, 0, .45],

57683: [0, .12, 0, 0, .45]

},

"Typewriter-Regular": {

32: [0, 0, 0, 0, .525],

33: [0, .61111, 0, 0, .525],

34: [0, .61111, 0, 0, .525],

35: [0, .61111, 0, 0, .525],

36: [.08333, .69444, 0, 0, .525],

37: [.08333, .69444, 0, 0, .525],

38: [0, .61111, 0, 0, .525],

39: [0, .61111, 0, 0, .525],

40: [.08333, .69444, 0, 0, .525],

41: [.08333, .69444, 0, 0, .525],

42: [0, .52083, 0, 0, .525],

43: [-.08056, .53055, 0, 0, .525],

44: [.13889, .125, 0, 0, .525],

45: [-.08056, .53055, 0, 0, .525],

46: [0, .125, 0, 0, .525],

47: [.08333, .69444, 0, 0, .525],

48: [0, .61111, 0, 0, .525],

49: [0, .61111, 0, 0, .525],

50: [0, .61111, 0, 0, .525],

51: [0, .61111, 0, 0, .525],

52: [0, .61111, 0, 0, .525],

53: [0, .61111, 0, 0, .525],

54: [0, .61111, 0, 0, .525],

55: [0, .61111, 0, 0, .525],

56: [0, .61111, 0, 0, .525],

57: [0, .61111, 0, 0, .525],

58: [0, .43056, 0, 0, .525],

59: [.13889, .43056, 0, 0, .525],

60: [-.05556, .55556, 0, 0, .525],

61: [-.19549, .41562, 0, 0, .525],

62: [-.05556, .55556, 0, 0, .525],

63: [0, .61111, 0, 0, .525],

64: [0, .61111, 0, 0, .525],

65: [0, .61111, 0, 0, .525],

66: [0, .61111, 0, 0, .525],

67: [0, .61111, 0, 0, .525],

68: [0, .61111, 0, 0, .525],

69: [0, .61111, 0, 0, .525],

70: [0, .61111, 0, 0, .525],

71: [0, .61111, 0, 0, .525],

72: [0, .61111, 0, 0, .525],

73: [0, .61111, 0, 0, .525],

74: [0, .61111, 0, 0, .525],

75: [0, .61111, 0, 0, .525],

76: [0, .61111, 0, 0, .525],

77: [0, .61111, 0, 0, .525],

78: [0, .61111, 0, 0, .525],

79: [0, .61111, 0, 0, .525],

80: [0, .61111, 0, 0, .525],

81: [.13889, .61111, 0, 0, .525],

82: [0, .61111, 0, 0, .525],

83: [0, .61111, 0, 0, .525],

84: [0, .61111, 0, 0, .525],

85: [0, .61111, 0, 0, .525],

86: [0, .61111, 0, 0, .525],

87: [0, .61111, 0, 0, .525],

88: [0, .61111, 0, 0, .525],

89: [0, .61111, 0, 0, .525],

90: [0, .61111, 0, 0, .525],

91: [.08333, .69444, 0, 0, .525],

92: [.08333, .69444, 0, 0, .525],

93: [.08333, .69444, 0, 0, .525],

94: [0, .61111, 0, 0, .525],

95: [.09514, 0, 0, 0, .525],

96: [0, .61111, 0, 0, .525],

97: [0, .43056, 0, 0, .525],

98: [0, .61111, 0, 0, .525],

99: [0, .43056, 0, 0, .525],

100: [0, .61111, 0, 0, .525],

101: [0, .43056, 0, 0, .525],

102: [0, .61111, 0, 0, .525],

103: [.22222, .43056, 0, 0, .525],

104: [0, .61111, 0, 0, .525],

105: [0, .61111, 0, 0, .525],

106: [.22222, .61111, 0, 0, .525],

107: [0, .61111, 0, 0, .525],

108: [0, .61111, 0, 0, .525],

109: [0, .43056, 0, 0, .525],

110: [0, .43056, 0, 0, .525],

111: [0, .43056, 0, 0, .525],

112: [.22222, .43056, 0, 0, .525],

113: [.22222, .43056, 0, 0, .525],

114: [0, .43056, 0, 0, .525],

115: [0, .43056, 0, 0, .525],

116: [0, .55358, 0, 0, .525],

117: [0, .43056, 0, 0, .525],

118: [0, .43056, 0, 0, .525],

119: [0, .43056, 0, 0, .525],

120: [0, .43056, 0, 0, .525],

121: [.22222, .43056, 0, 0, .525],

122: [0, .43056, 0, 0, .525],

123: [.08333, .69444, 0, 0, .525],

124: [.08333, .69444, 0, 0, .525],

125: [.08333, .69444, 0, 0, .525],

126: [0, .61111, 0, 0, .525],

127: [0, .61111, 0, 0, .525],

160: [0, 0, 0, 0, .525],

176: [0, .61111, 0, 0, .525],

184: [.19445, 0, 0, 0, .525],

305: [0, .43056, 0, 0, .525],

567: [.22222, .43056, 0, 0, .525],

711: [0, .56597, 0, 0, .525],

713: [0, .56555, 0, 0, .525],

714: [0, .61111, 0, 0, .525],

715: [0, .61111, 0, 0, .525],

728: [0, .61111, 0, 0, .525],

730: [0, .61111, 0, 0, .525],

770: [0, .61111, 0, 0, .525],

771: [0, .61111, 0, 0, .525],

776: [0, .61111, 0, 0, .525],

915: [0, .61111, 0, 0, .525],

916: [0, .61111, 0, 0, .525],

920: [0, .61111, 0, 0, .525],

923: [0, .61111, 0, 0, .525],

926: [0, .61111, 0, 0, .525],

928: [0, .61111, 0, 0, .525],

931: [0, .61111, 0, 0, .525],

933: [0, .61111, 0, 0, .525],

934: [0, .61111, 0, 0, .525],

936: [0, .61111, 0, 0, .525],

937: [0, .61111, 0, 0, .525],

8216: [0, .61111, 0, 0, .525],

8217: [0, .61111, 0, 0, .525],

8242: [0, .61111, 0, 0, .525],

9251: [.11111, .21944, 0, 0, .525]

}

},

V = {

slant: [.25, .25, .25],

space: [0, 0, 0],

stretch: [0, 0, 0],

shrink: [0, 0, 0],

xHeight: [.431, .431, .431],

quad: [1, 1.171, 1.472],

extraSpace: [0, 0, 0],

num1: [.677, .732, .925],

num2: [.394, .384, .387],

num3: [.444, .471, .504],

denom1: [.686, .752, 1.025],

denom2: [.345, .344, .532],

sup1: [.413, .503, .504],

sup2: [.363, .431, .404],

sup3: [.289, .286, .294],

sub1: [.15, .143, .2],

sub2: [.247, .286, .4],

supDrop: [.386, .353, .494],

subDrop: [.05, .071, .1],

delim1: [2.39, 1.7, 1.98],

delim2: [1.01, 1.157, 1.42],

axisHeight: [.25, .25, .25],

defaultRuleThickness: [.04, .049, .049],

bigOpSpacing1: [.111, .111, .111],

bigOpSpacing2: [.166, .166, .166],

bigOpSpacing3: [.2, .2, .2],

bigOpSpacing4: [.6, .611, .611],

bigOpSpacing5: [.1, .143, .143],

sqrtRuleThickness: [.04, .04, .04],

ptPerEm: [10, 10, 10],

doubleRuleSep: [.2, .2, .2],

arrayRuleWidth: [.04, .04, .04],

fboxsep: [.3, .3, .3],

fboxrule: [.04, .04, .04]

},

U = {

"\xc5": "A",

"\xc7": "C",

"\xd0": "D",

"\xde": "o",

"\xe5": "a",

"\xe7": "c",

"\xf0": "d",

"\xfe": "o",

"\u0410": "A",

"\u0411": "B",

"\u0412": "B",

"\u0413": "F",

"\u0414": "A",

"\u0415": "E",

"\u0416": "K",

"\u0417": "3",

"\u0418": "N",

"\u0419": "N",

"\u041a": "K",

"\u041b": "N",

"\u041c": "M",

"\u041d": "H",

"\u041e": "O",

"\u041f": "N",

"\u0420": "P",

"\u0421": "C",

"\u0422": "T",

"\u0423": "y",

"\u0424": "O",

"\u0425": "X",

"\u0426": "U",

"\u0427": "h",

"\u0428": "W",

"\u0429": "W",

"\u042a": "B",

"\u042b": "X",

"\u042c": "B",

"\u042d": "3",

"\u042e": "X",

"\u042f": "R",

"\u0430": "a",

"\u0431": "b",

"\u0432": "a",

"\u0433": "r",

"\u0434": "y",

"\u0435": "e",

"\u0436": "m",

"\u0437": "e",

"\u0438": "n",

"\u0439": "n",

"\u043a": "n",

"\u043b": "n",

"\u043c": "m",

"\u043d": "n",

"\u043e": "o",

"\u043f": "n",

"\u0440": "p",

"\u0441": "c",

"\u0442": "o",

"\u0443": "y",

"\u0444": "b",

"\u0445": "x",

"\u0446": "n",

"\u0447": "n",

"\u0448": "w",

"\u0449": "w",

"\u044a": "a",

"\u044b": "m",

"\u044c": "a",

"\u044d": "e",

"\u044e": "m",

"\u044f": "r"

};

function G(t, e, r) {

if (!F[e]) throw new Error("Font metrics not found for font: " + e + ".");

var a = t.charCodeAt(0),

n = F[e][a];

if (!n && t[0] in U && (a = U[t[0]].charCodeAt(0), n = F[e][a]), n || "text" !== r || M(a) && (n = F[e][77]), n) return {

depth: n[0],

height: n[1],

italic: n[2],

skew: n[3],

width: n[4]

}

}

var Y = {};

var W = {

bin: 1,

close: 1,

inner: 1,

open: 1,

punct: 1,

rel: 1

},

X = {

"accent-token": 1,

mathord: 1,

"op-token": 1,

spacing: 1,

textord: 1

},

\_ = {

math: {},

text: {}

},

j = \_;

function $(t, e, r, a, n, i) {

\_[t][n] = {

font: e,

group: r,

replace: a

}, i && a && (\_[t][a] = \_[t][n])

}

var Z = "main",

K = "ams",

J = "bin",

Q = "mathord",

tt = "op-token",

et = "rel";

$("math", Z, et, "\u2261", "\\equiv", !0), $("math", Z, et, "\u227a", "\\prec", !0), $("math", Z, et, "\u227b", "\\succ", !0), $("math", Z, et, "\u223c", "\\sim", !0), $("math", Z, et, "\u22a5", "\\perp"), $("math", Z, et, "\u2aaf", "\\preceq", !0), $("math", Z, et, "\u2ab0", "\\succeq", !0), $("math", Z, et, "\u2243", "\\simeq", !0), $("math", Z, et, "\u2223", "\\mid", !0), $("math", Z, et, "\u226a", "\\ll", !0), $("math", Z, et, "\u226b", "\\gg", !0), $("math", Z, et, "\u224d", "\\asymp", !0), $("math", Z, et, "\u2225", "\\parallel"), $("math", Z, et, "\u22c8", "\\bowtie", !0), $("math", Z, et, "\u2323", "\\smile", !0), $("math", Z, et, "\u2291", "\\sqsubseteq", !0), $("math", Z, et, "\u2292", "\\sqsupseteq", !0), $("math", Z, et, "\u2250", "\\doteq", !0), $("math", Z, et, "\u2322", "\\frown", !0), $("math", Z, et, "\u220b", "\\ni", !0), $("math", Z, et, "\u221d", "\\propto", !0), $("math", Z, et, "\u22a2", "\\vdash", !0), $("math", Z, et, "\u22a3", "\\dashv", !0), $("math", Z, et, "\u220b", "\\owns"), $("math", Z, "punct", ".", "\\ldotp"), $("math", Z, "punct", "\u22c5", "\\cdotp"), $("math", Z, "textord", "#", "\\#"), $("text", Z, "textord", "#", "\\#"), $("math", Z, "textord", "&", "\\&"), $("text", Z, "textord", "&", "\\&"), $("math", Z, "textord", "\u2135", "\\aleph", !0), $("math", Z, "textord", "\u2200", "\\forall", !0), $("math", Z, "textord", "\u210f", "\\hbar", !0), $("math", Z, "textord", "\u2203", "\\exists", !0), $("math", Z, "textord", "\u2207", "\\nabla", !0), $("math", Z, "textord", "\u266d", "\\flat", !0), $("math", Z, "textord", "\u2113", "\\ell", !0), $("math", Z, "textord", "\u266e", "\\natural", !0), $("math", Z, "textord", "\u2663", "\\clubsuit", !0), $("math", Z, "textord", "\u2118", "\\wp", !0), $("math", Z, "textord", "\u266f", "\\sharp", !0), $("math", Z, "textord", "\u2662", "\\diamondsuit", !0), $("math", Z, "textord", "\u211c", "\\Re", !0), $("math", Z, "textord", "\u2661", "\\heartsuit", !0), $("math", Z, "textord", "\u2111", "\\Im", !0), $("math", Z, "textord", "\u2660", "\\spadesuit", !0), $("text", Z, "textord", "\xa7", "\\S", !0), $("text", Z, "textord", "\xb6", "\\P", !0), $("math", Z, "textord", "\u2020", "\\dag"), $("text", Z, "textord", "\u2020", "\\dag"), $("text", Z, "textord", "\u2020", "\\textdagger"), $("math", Z, "textord", "\u2021", "\\ddag"), $("text", Z, "textord", "\u2021", "\\ddag"), $("text", Z, "textord", "\u2021", "\\textdaggerdbl"), $("math", Z, "close", "\u23b1", "\\rmoustache", !0), $("math", Z, "open", "\u23b0", "\\lmoustache", !0), $("math", Z, "close", "\u27ef", "\\rgroup", !0), $("math", Z, "open", "\u27ee", "\\lgroup", !0), $("math", Z, J, "\u2213", "\\mp", !0), $("math", Z, J, "\u2296", "\\ominus", !0), $("math", Z, J, "\u228e", "\\uplus", !0), $("math", Z, J, "\u2293", "\\sqcap", !0), $("math", Z, J, "\u2217", "\\ast"), $("math", Z, J, "\u2294", "\\sqcup", !0), $("math", Z, J, "\u25ef", "\\bigcirc"), $("math", Z, J, "\u2219", "\\bullet"), $("math", Z, J, "\u2021", "\\ddagger"), $("math", Z, J, "\u2240", "\\wr", !0), $("math", Z, J, "\u2a3f", "\\amalg"), $("math", Z, J, "&", "\\And"), $("math", Z, et, "\u27f5", "\\longleftarrow", !0), $("math", Z, et, "\u21d0", "\\Leftarrow", !0), $("math", Z, et, "\u27f8", "\\Longleftarrow", !0), $("math", Z, et, "\u27f6", "\\longrightarrow", !0), $("math", Z, et, "\u21d2", "\\Rightarrow", !0), $("math", Z, et, "\u27f9", "\\Longrightarrow", !0), $("math", Z, et, "\u2194", "\\leftrightarrow", !0), $("math", Z, et, "\u27f7", "\\longleftrightarrow", !0), $("math", Z, et, "\u21d4", "\\Leftrightarrow", !0), $("math", Z, et, "\u27fa", "\\Longleftrightarrow", !0), $("math", Z, et, "\u21a6", "\\mapsto", !0), $("math", Z, et, "\u27fc", "\\longmapsto", !0), $("math", Z, et, "\u2197", "\\nearrow", !0), $("math", Z, et, "\u21a9", "\\hookleftarrow", !0), $("math", Z, et, "\u21aa", "\\hookrightarrow", !0), $("math", Z, et, "\u2198", "\\searrow", !0), $("math", Z, et, "\u21bc", "\\leftharpoonup", !0), $("math", Z, et, "\u21c0", "\\rightharpoonup", !0), $("math", Z, et, "\u2199", "\\swarrow", !0), $("math", Z, et, "\u21bd", "\\leftharpoondown", !0), $("math", Z, et, "\u21c1", "\\rightharpoondown", !0), $("math", Z, et, "\u2196", "\\nwarrow", !0), $("math", Z, et, "\u21cc", "\\rightleftharpoons", !0), $("math", K, et, "\u226e", "\\nless", !0), $("math", K, et, "\ue010", "\\@nleqslant"), $("math", K, et, "\ue011", "\\@nleqq"), $("math", K, et, "\u2a87", "\\lneq", !0), $("math", K, et, "\u2268", "\\lneqq", !0), $("math", K, et, "\ue00c", "\\@lvertneqq"), $("math", K, et, "\u22e6", "\\lnsim", !0), $("math", K, et, "\u2a89", "\\lnapprox", !0), $("math", K, et, "\u2280", "\\nprec", !0), $("math", K, et, "\u22e0", "\\npreceq", !0), $("math", K, et, "\u22e8", "\\precnsim", !0), $("math", K, et, "\u2ab9", "\\precnapprox", !0), $("math", K, et, "\u2241", "\\nsim", !0), $("math", K, et, "\ue006", "\\@nshortmid"), $("math", K, et, "\u2224", "\\nmid", !0), $("math", K, et, "\u22ac", "\\nvdash", !0), $("math", K, et, "\u22ad", "\\nvDash", !0), $("math", K, et, "\u22ea", "\\ntriangleleft"), $("math", K, et, "\u22ec", "\\ntrianglelefteq", !0), $("math", K, et, "\u228a", "\\subsetneq", !0), $("math", K, et, "\ue01a", "\\@varsubsetneq"), $("math", K, et, "\u2acb", "\\subsetneqq", !0), $("math", K, et, "\ue017", "\\@varsubsetneqq"), $("math", K, et, "\u226f", "\\ngtr", !0), $("math", K, et, "\ue00f", "\\@ngeqslant"), $("math", K, et, "\ue00e", "\\@ngeqq"), $("math", K, et, "\u2a88", "\\gneq", !0), $("math", K, et, "\u2269", "\\gneqq", !0), $("math", K, et, "\ue00d", "\\@gvertneqq"), $("math", K, et, "\u22e7", "\\gnsim", !0), $("math", K, et, "\u2a8a", "\\gnapprox", !0), $("math", K, et, "\u2281", "\\nsucc", !0), $("math", K, et, "\u22e1", "\\nsucceq", !0), $("math", K, et, "\u22e9", "\\succnsim", !0), $("math", K, et, "\u2aba", "\\succnapprox", !0), $("math", K, et, "\u2246", "\\ncong", !0), $("math", K, et, "\ue007", "\\@nshortparallel"), $("math", K, et, "\u2226", "\\nparallel", !0), $("math", K, et, "\u22af", "\\nVDash", !0), $("math", K, et, "\u22eb", "\\ntriangleright"), $("math", K, et, "\u22ed", "\\ntrianglerighteq", !0), $("math", K, et, "\ue018", "\\@nsupseteqq"), $("math", K, et, "\u228b", "\\supsetneq", !0), $("math", K, et, "\ue01b", "\\@varsupsetneq"), $("math", K, et, "\u2acc", "\\supsetneqq", !0), $("math", K, et, "\ue019", "\\@varsupsetneqq"), $("math", K, et, "\u22ae", "\\nVdash", !0), $("math", K, et, "\u2ab5", "\\precneqq", !0), $("math", K, et, "\u2ab6", "\\succneqq", !0), $("math", K, et, "\ue016", "\\@nsubseteqq"), $("math", K, J, "\u22b4", "\\unlhd"), $("math", K, J, "\u22b5", "\\unrhd"), $("math", K, et, "\u219a", "\\nleftarrow", !0), $("math", K, et, "\u219b", "\\nrightarrow", !0), $("math", K, et, "\u21cd", "\\nLeftarrow", !0), $("math", K, et, "\u21cf", "\\nRightarrow", !0), $("math", K, et, "\u21ae", "\\nleftrightarrow", !0), $("math", K, et, "\u21ce", "\\nLeftrightarrow", !0), $("math", K, et, "\u25b3", "\\vartriangle"), $("math", K, "textord", "\u210f", "\\hslash"), $("math", K, "textord", "\u25bd", "\\triangledown"), $("math", K, "textord", "\u25ca", "\\lozenge"), $("math", K, "textord", "\u24c8", "\\circledS"), $("math", K, "textord", "\xae", "\\circledR"), $("text", K, "textord", "\xae", "\\circledR"), $("math", K, "textord", "\u2221", "\\measuredangle", !0), $("math", K, "textord", "\u2204", "\\nexists"), $("math", K, "textord", "\u2127", "\\mho"), $("math", K, "textord", "\u2132", "\\Finv", !0), $("math", K, "textord", "\u2141", "\\Game", !0), $("math", K, "textord", "\u2035", "\\backprime"), $("math", K, "textord", "\u25b2", "\\blacktriangle"), $("math", K, "textord", "\u25bc", "\\blacktriangledown"), $("math", K, "textord", "\u25a0", "\\blacksquare"), $("math", K, "textord", "\u29eb", "\\blacklozenge"), $("math", K, "textord", "\u2605", "\\bigstar"), $("math", K, "textord", "\u2222", "\\sphericalangle", !0), $("math", K, "textord", "\u2201", "\\complement", !0), $("math", K, "textord", "\xf0", "\\eth", !0), $("math", K, "textord", "\u2571", "\\diagup"), $("math", K, "textord", "\u2572", "\\diagdown"), $("math", K, "textord", "\u25a1", "\\square"), $("math", K, "textord", "\u25a1", "\\Box"), $("math", K, "textord", "\u25ca", "\\Diamond"), $("math", K, "textord", "\xa5", "\\yen", !0), $("text", K, "textord", "\xa5", "\\yen", !0), $("math", K, "textord", "\u2713", "\\checkmark", !0), $("text", K, "textord", "\u2713", "\\checkmark"), $("math", K, "textord", "\u2136", "\\beth", !0), $("math", K, "textord", "\u2138", "\\daleth", !0), $("math", K, "textord", "\u2137", "\\gimel", !0), $("math", K, "textord", "\u03dd", "\\digamma", !0), $("math", K, "textord", "\u03f0", "\\varkappa"), $("math", K, "open", "\u250c", "\\ulcorner", !0), $("math", K, "close", "\u2510", "\\urcorner", !0), $("math", K, "open", "\u2514", "\\llcorner", !0), $("math", K, "close", "\u2518", "\\lrcorner", !0), $("math", K, et, "\u2266", "\\leqq", !0), $("math", K, et, "\u2a7d", "\\leqslant", !0), $("math", K, et, "\u2a95", "\\eqslantless", !0), $("math", K, et, "\u2272", "\\lesssim", !0), $("math", K, et, "\u2a85", "\\lessapprox", !0), $("math", K, et, "\u224a", "\\approxeq", !0), $("math", K, J, "\u22d6", "\\lessdot"), $("math", K, et, "\u22d8", "\\lll", !0), $("math", K, et, "\u2276", "\\lessgtr", !0), $("math", K, et, "\u22da", "\\lesseqgtr", !0), $("math", K, et, "\u2a8b", "\\lesseqqgtr", !0), $("math", K, et, "\u2251", "\\doteqdot"), $("math", K, et, "\u2253", "\\risingdotseq", !0), $("math", K, et, "\u2252", "\\fallingdotseq", !0), $("math", K, et, "\u223d", "\\backsim", !0), $("math", K, et, "\u22cd", "\\backsimeq", !0), $("math", K, et, "\u2ac5", "\\subseteqq", !0), $("math", K, et, "\u22d0", "\\Subset", !0), $("math", K, et, "\u228f", "\\sqsubset", !0), $("math", K, et, "\u227c", "\\preccurlyeq", !0), $("math", K, et, "\u22de", "\\curlyeqprec", !0), $("math", K, et, "\u227e", "\\precsim", !0), $("math", K, et, "\u2ab7", "\\precapprox", !0), $("math", K, et, "\u22b2", "\\vartriangleleft"), $("math", K, et, "\u22b4", "\\trianglelefteq"), $("math", K, et, "\u22a8", "\\vDash", !0), $("math", K, et, "\u22aa", "\\Vvdash", !0), $("math", K, et, "\u2323", "\\smallsmile"), $("math", K, et, "\u2322", "\\smallfrown"), $("math", K, et, "\u224f", "\\bumpeq", !0), $("math", K, et, "\u224e", "\\Bumpeq", !0), $("math", K, et, "\u2267", "\\geqq", !0), $("math", K, et, "\u2a7e", "\\geqslant", !0), $("math", K, et, "\u2a96", "\\eqslantgtr", !0), $("math", K, et, "\u2273", "\\gtrsim", !0), $("math", K, et, "\u2a86", "\\gtrapprox", !0), $("math", K, J, "\u22d7", "\\gtrdot"), $("math", K, et, "\u22d9", "\\ggg", !0), $("math", K, et, "\u2277", "\\gtrless", !0), $("math", K, et, "\u22db", "\\gtreqless", !0), $("math", K, et, "\u2a8c", "\\gtreqqless", !0), $("math", K, et, "\u2256", "\\eqcirc", !0), $("math", K, et, "\u2257", "\\circeq", !0), $("math", K, et, "\u225c", "\\triangleq", !0), $("math", K, et, "\u223c", "\\thicksim"), $("math", K, et, "\u2248", "\\thickapprox"), $("math", K, et, "\u2ac6", "\\supseteqq", !0), $("math", K, et, "\u22d1", "\\Supset", !0), $("math", K, et, "\u2290", "\\sqsupset", !0), $("math", K, et, "\u227d", "\\succcurlyeq", !0), $("math", K, et, "\u22df", "\\curlyeqsucc", !0), $("math", K, et, "\u227f", "\\succsim", !0), $("math", K, et, "\u2ab8", "\\succapprox", !0), $("math", K, et, "\u22b3", "\\vartriangleright"), $("math", K, et, "\u22b5", "\\trianglerighteq"), $("math", K, et, "\u22a9", "\\Vdash", !0), $("math", K, et, "\u2223", "\\shortmid"), $("math", K, et, "\u2225", "\\shortparallel"), $("math", K, et, "\u226c", "\\between", !0), $("math", K, et, "\u22d4", "\\pitchfork", !0), $("math", K, et, "\u221d", "\\varpropto"), $("math", K, et, "\u25c0", "\\blacktriangleleft"), $("math", K, et, "\u2234", "\\therefore", !0), $("math", K, et, "\u220d", "\\backepsilon"), $("math", K, et, "\u25b6", "\\blacktriangleright"), $("math", K, et, "\u2235", "\\because", !0), $("math", K, et, "\u22d8", "\\llless"), $("math", K, et, "\u22d9", "\\gggtr"), $("math", K, J, "\u22b2", "\\lhd"), $("math", K, J, "\u22b3", "\\rhd"), $("math", K, et, "\u2242", "\\eqsim", !0), $("math", Z, et, "\u22c8", "\\Join"), $("math", K, et, "\u2251", "\\Doteq", !0), $("math", K, J, "\u2214", "\\dotplus", !0), $("math", K, J, "\u2216", "\\smallsetminus"), $("math", K, J, "\u22d2", "\\Cap", !0), $("math", K, J, "\u22d3", "\\Cup", !0), $("math", K, J, "\u2a5e", "\\doublebarwedge", !0), $("math", K, J, "\u229f", "\\boxminus", !0), $("math", K, J, "\u229e", "\\boxplus", !0), $("math", K, J, "\u22c7", "\\divideontimes", !0), $("math", K, J, "\u22c9", "\\ltimes", !0), $("math", K, J, "\u22ca", "\\rtimes", !0), $("math", K, J, "\u22cb", "\\leftthreetimes", !0), $("math", K, J, "\u22cc", "\\rightthreetimes", !0), $("math", K, J, "\u22cf", "\\curlywedge", !0), $("math", K, J, "\u22ce", "\\curlyvee", !0), $("math", K, J, "\u229d", "\\circleddash", !0), $("math", K, J, "\u229b", "\\circledast", !0), $("math", K, J, "\u22c5", "\\centerdot"), $("math", K, J, "\u22ba", "\\intercal", !0), $("math", K, J, "\u22d2", "\\doublecap"), $("math", K, J, "\u22d3", "\\doublecup"), $("math", K, J, "\u22a0", "\\boxtimes", !0), $("math", K, et, "\u21e2", "\\dashrightarrow", !0), $("math", K, et, "\u21e0", "\\dashleftarrow", !0), $("math", K, et, "\u21c7", "\\leftleftarrows", !0), $("math", K, et, "\u21c6", "\\leftrightarrows", !0), $("math", K, et, "\u21da", "\\Lleftarrow", !0), $("math", K, et, "\u219e", "\\twoheadleftarrow", !0), $("math", K, et, "\u21a2", "\\leftarrowtail", !0), $("math", K, et, "\u21ab", "\\looparrowleft", !0), $("math", K, et, "\u21cb", "\\leftrightharpoons", !0), $("math", K, et, "\u21b6", "\\curvearrowleft", !0), $("math", K, et, "\u21ba", "\\circlearrowleft", !0), $("math", K, et, "\u21b0", "\\Lsh", !0), $("math", K, et, "\u21c8", "\\upuparrows", !0), $("math", K, et, "\u21bf", "\\upharpoonleft", !0), $("math", K, et, "\u21c3", "\\downharpoonleft", !0), $("math", K, et, "\u22b8", "\\multimap", !0), $("math", K, et, "\u21ad", "\\leftrightsquigarrow", !0), $("math", K, et, "\u21c9", "\\rightrightarrows", !0), $("math", K, et, "\u21c4", "\\rightleftarrows", !0), $("math", K, et, "\u21a0", "\\twoheadrightarrow", !0), $("math", K, et, "\u21a3", "\\rightarrowtail", !0), $("math", K, et, "\u21ac", "\\looparrowright", !0), $("math", K, et, "\u21b7", "\\curvearrowright", !0), $("math", K, et, "\u21bb", "\\circlearrowright", !0), $("math", K, et, "\u21b1", "\\Rsh", !0), $("math", K, et, "\u21ca", "\\downdownarrows", !0), $("math", K, et, "\u21be", "\\upharpoonright", !0), $("math", K, et, "\u21c2", "\\downharpoonright", !0), $("math", K, et, "\u21dd", "\\rightsquigarrow", !0), $("math", K, et, "\u21dd", "\\leadsto"), $("math", K, et, "\u21db", "\\Rrightarrow", !0), $("math", K, et, "\u21be", "\\restriction"), $("math", Z, "textord", "\u2018", "`"), $("math", Z, "textord", "$", "\\$"), $("text", Z, "textord", "$", "\\$"), $("text", Z, "textord", "$", "\\textdollar"), $("math", Z, "textord", "%", "\\%"), $("text", Z, "textord", "%", "\\%"), $("math", Z, "textord", "\_", "\\\_"), $("text", Z, "textord", "\_", "\\\_"), $("text", Z, "textord", "\_", "\\textunderscore"), $("math", Z, "textord", "\u2220", "\\angle", !0), $("math", Z, "textord", "\u221e", "\\infty", !0), $("math", Z, "textord", "\u2032", "\\prime"), $("math", Z, "textord", "\u25b3", "\\triangle"), $("math", Z, "textord", "\u0393", "\\Gamma", !0), $("math", Z, "textord", "\u0394", "\\Delta", !0), $("math", Z, "textord", "\u0398", "\\Theta", !0), $("math", Z, "textord", "\u039b", "\\Lambda", !0), $("math", Z, "textord", "\u039e", "\\Xi", !0), $("math", Z, "textord", "\u03a0", "\\Pi", !0), $("math", Z, "textord", "\u03a3", "\\Sigma", !0), $("math", Z, "textord", "\u03a5", "\\Upsilon", !0), $("math", Z, "textord", "\u03a6", "\\Phi", !0), $("math", Z, "textord", "\u03a8", "\\Psi", !0), $("math", Z, "textord", "\u03a9", "\\Omega", !0), $("math", Z, "textord", "A", "\u0391"), $("math", Z, "textord", "B", "\u0392"), $("math", Z, "textord", "E", "\u0395"), $("math", Z, "textord", "Z", "\u0396"), $("math", Z, "textord", "H", "\u0397"), $("math", Z, "textord", "I", "\u0399"), $("math", Z, "textord", "K", "\u039a"), $("math", Z, "textord", "M", "\u039c"), $("math", Z, "textord", "N", "\u039d"), $("math", Z, "textord", "O", "\u039f"), $("math", Z, "textord", "P", "\u03a1"), $("math", Z, "textord", "T", "\u03a4"), $("math", Z, "textord", "X", "\u03a7"), $("math", Z, "textord", "\xac", "\\neg", !0), $("math", Z, "textord", "\xac", "\\lnot"), $("math", Z, "textord", "\u22a4", "\\top"), $("math", Z, "textord", "\u22a5", "\\bot"), $("math", Z, "textord", "\u2205", "\\emptyset"), $("math", K, "textord", "\u2205", "\\varnothing"), $("math", Z, Q, "\u03b1", "\\alpha", !0), $("math", Z, Q, "\u03b2", "\\beta", !0), $("math", Z, Q, "\u03b3", "\\gamma", !0), $("math", Z, Q, "\u03b4", "\\delta", !0), $("math", Z, Q, "\u03f5", "\\epsilon", !0), $("math", Z, Q, "\u03b6", "\\zeta", !0), $("math", Z, Q, "\u03b7", "\\eta", !0), $("math", Z, Q, "\u03b8", "\\theta", !0), $("math", Z, Q, "\u03b9", "\\iota", !0), $("math", Z, Q, "\u03ba", "\\kappa", !0), $("math", Z, Q, "\u03bb", "\\lambda", !0), $("math", Z, Q, "\u03bc", "\\mu", !0), $("math", Z, Q, "\u03bd", "\\nu", !0), $("math", Z, Q, "\u03be", "\\xi", !0), $("math", Z, Q, "\u03bf", "\\omicron", !0), $("math", Z, Q, "\u03c0", "\\pi", !0), $("math", Z, Q, "\u03c1", "\\rho", !0), $("math", Z, Q, "\u03c3", "\\sigma", !0), $("math", Z, Q, "\u03c4", "\\tau", !0), $("math", Z, Q, "\u03c5", "\\upsilon", !0), $("math", Z, Q, "\u03d5", "\\phi", !0), $("math", Z, Q, "\u03c7", "\\chi", !0), $("math", Z, Q, "\u03c8", "\\psi", !0), $("math", Z, Q, "\u03c9", "\\omega", !0), $("math", Z, Q, "\u03b5", "\\varepsilon", !0), $("math", Z, Q, "\u03d1", "\\vartheta", !0), $("math", Z, Q, "\u03d6", "\\varpi", !0), $("math", Z, Q, "\u03f1", "\\varrho", !0), $("math", Z, Q, "\u03c2", "\\varsigma", !0), $("math", Z, Q, "\u03c6", "\\varphi", !0), $("math", Z, J, "\u2217", "\*"), $("math", Z, J, "+", "+"), $("math", Z, J, "\u2212", "-"), $("math", Z, J, "\u22c5", "\\cdot", !0), $("math", Z, J, "\u2218", "\\circ"), $("math", Z, J, "\xf7", "\\div", !0), $("math", Z, J, "\xb1", "\\pm", !0), $("math", Z, J, "\xd7", "\\times", !0), $("math", Z, J, "\u2229", "\\cap", !0), $("math", Z, J, "\u222a", "\\cup", !0), $("math", Z, J, "\u2216", "\\setminus"), $("math", Z, J, "\u2227", "\\land"), $("math", Z, J, "\u2228", "\\lor"), $("math", Z, J, "\u2227", "\\wedge", !0), $("math", Z, J, "\u2228", "\\vee", !0), $("math", Z, "textord", "\u221a", "\\surd"), $("math", Z, "open", "(", "("), $("math", Z, "open", "[", "["), $("math", Z, "open", "\u27e8", "\\langle", !0), $("math", Z, "open", "\u2223", "\\lvert"), $("math", Z, "open", "\u2225", "\\lVert"), $("math", Z, "close", ")", ")"), $("math", Z, "close", "]", "]"), $("math", Z, "close", "?", "?"), $("math", Z, "close", "!", "!"), $("math", Z, "close", "\u27e9", "\\rangle", !0), $("math", Z, "close", "\u2223", "\\rvert"), $("math", Z, "close", "\u2225", "\\rVert"), $("math", Z, et, "=", "="), $("math", Z, et, "<", "<"), $("math", Z, et, ">", ">"), $("math", Z, et, ":", ":"), $("math", Z, et, "\u2248", "\\approx", !0), $("math", Z, et, "\u2245", "\\cong", !0), $("math", Z, et, "\u2265", "\\ge"), $("math", Z, et, "\u2265", "\\geq", !0), $("math", Z, et, "\u2190", "\\gets"), $("math", Z, et, ">", "\\gt"), $("math", Z, et, "\u2208", "\\in", !0), $("math", Z, et, "\ue020", "\\@not"), $("math", Z, et, "\u2282", "\\subset", !0), $("math", Z, et, "\u2283", "\\supset", !0), $("math", Z, et, "\u2286", "\\subseteq", !0), $("math", Z, et, "\u2287", "\\supseteq", !0), $("math", K, et, "\u2288", "\\nsubseteq", !0), $("math", K, et, "\u2289", "\\nsupseteq", !0), $("math", Z, et, "\u22a8", "\\models"), $("math", Z, et, "\u2190", "\\leftarrow", !0), $("math", Z, et, "\u2264", "\\le"), $("math", Z, et, "\u2264", "\\leq", !0), $("math", Z, et, "<", "\\lt"), $("math", Z, et, "\u2192", "\\rightarrow", !0), $("math", Z, et, "\u2192", "\\to"), $("math", K, et, "\u2271", "\\ngeq", !0), $("math", K, et, "\u2270", "\\nleq", !0), $("math", Z, "spacing", "\xa0", "\\ "), $("math", Z, "spacing", "\xa0", "~"), $("math", Z, "spacing", "\xa0", "\\space"), $("math", Z, "spacing", "\xa0", "\\nobreakspace"), $("text", Z, "spacing", "\xa0", "\\ "), $("text", Z, "spacing", "\xa0", "~"), $("text", Z, "spacing", "\xa0", "\\space"), $("text", Z, "spacing", "\xa0", "\\nobreakspace"), $("math", Z, "spacing", null, "\\nobreak"), $("math", Z, "spacing", null, "\\allowbreak"), $("math", Z, "punct", ",", ","), $("math", Z, "punct", ";", ";"), $("math", K, J, "\u22bc", "\\barwedge", !0), $("math", K, J, "\u22bb", "\\veebar", !0), $("math", Z, J, "\u2299", "\\odot", !0), $("math", Z, J, "\u2295", "\\oplus", !0), $("math", Z, J, "\u2297", "\\otimes", !0), $("math", Z, "textord", "\u2202", "\\partial", !0), $("math", Z, J, "\u2298", "\\oslash", !0), $("math", K, J, "\u229a", "\\circledcirc", !0), $("math", K, J, "\u22a1", "\\boxdot", !0), $("math", Z, J, "\u25b3", "\\bigtriangleup"), $("math", Z, J, "\u25bd", "\\bigtriangledown"), $("math", Z, J, "\u2020", "\\dagger"), $("math", Z, J, "\u22c4", "\\diamond"), $("math", Z, J, "\u22c6", "\\star"), $("math", Z, J, "\u25c3", "\\triangleleft"), $("math", Z, J, "\u25b9", "\\triangleright"), $("math", Z, "open", "{", "\\{"), $("text", Z, "textord", "{", "\\{"), $("text", Z, "textord", "{", "\\textbraceleft"), $("math", Z, "close", "}", "\\}"), $("text", Z, "textord", "}", "\\}"), $("text", Z, "textord", "}", "\\textbraceright"), $("math", Z, "open", "{", "\\lbrace"), $("math", Z, "close", "}", "\\rbrace"), $("math", Z, "open", "[", "\\lbrack"), $("text", Z, "textord", "[", "\\lbrack"), $("math", Z, "close", "]", "\\rbrack"), $("text", Z, "textord", "]", "\\rbrack"), $("math", Z, "open", "(", "\\lparen"), $("math", Z, "close", ")", "\\rparen"), $("text", Z, "textord", "<", "\\textless"), $("text", Z, "textord", ">", "\\textgreater"), $("math", Z, "open", "\u230a", "\\lfloor", !0), $("math", Z, "close", "\u230b", "\\rfloor", !0), $("math", Z, "open", "\u2308", "\\lceil", !0), $("math", Z, "close", "\u2309", "\\rceil", !0), $("math", Z, "textord", "\\", "\\backslash"), $("math", Z, "textord", "\u2223", "|"), $("math", Z, "textord", "\u2223", "\\vert"), $("text", Z, "textord", "|", "\\textbar"), $("math", Z, "textord", "\u2225", "\\|"), $("math", Z, "textord", "\u2225", "\\Vert"), $("text", Z, "textord", "\u2225", "\\textbardbl"), $("text", Z, "textord", "~", "\\textasciitilde"), $("text", Z, "textord", "\\", "\\textbackslash"), $("text", Z, "textord", "^", "\\textasciicircum"), $("math", Z, et, "\u2191", "\\uparrow", !0), $("math", Z, et, "\u21d1", "\\Uparrow", !0), $("math", Z, et, "\u2193", "\\downarrow", !0), $("math", Z, et, "\u21d3", "\\Downarrow", !0), $("math", Z, et, "\u2195", "\\updownarrow", !0), $("math", Z, et, "\u21d5", "\\Updownarrow", !0), $("math", Z, tt, "\u2210", "\\coprod"), $("math", Z, tt, "\u22c1", "\\bigvee"), $("math", Z, tt, "\u22c0", "\\bigwedge"), $("math", Z, tt, "\u2a04", "\\biguplus"), $("math", Z, tt, "\u22c2", "\\bigcap"), $("math", Z, tt, "\u22c3", "\\bigcup"), $("math", Z, tt, "\u222b", "\\int"), $("math", Z, tt, "\u222b", "\\intop"), $("math", Z, tt, "\u222c", "\\iint"), $("math", Z, tt, "\u222d", "\\iiint"), $("math", Z, tt, "\u220f", "\\prod"), $("math", Z, tt, "\u2211", "\\sum"), $("math", Z, tt, "\u2a02", "\\bigotimes"), $("math", Z, tt, "\u2a01", "\\bigoplus"), $("math", Z, tt, "\u2a00", "\\bigodot"), $("math", Z, tt, "\u222e", "\\oint"), $("math", Z, tt, "\u222f", "\\oiint"), $("math", Z, tt, "\u2230", "\\oiiint"), $("math", Z, tt, "\u2a06", "\\bigsqcup"), $("math", Z, tt, "\u222b", "\\smallint"), $("text", Z, "inner", "\u2026", "\\textellipsis"), $("math", Z, "inner", "\u2026", "\\mathellipsis"), $("text", Z, "inner", "\u2026", "\\ldots", !0), $("math", Z, "inner", "\u2026", "\\ldots", !0), $("math", Z, "inner", "\u22ef", "\\@cdots", !0), $("math", Z, "inner", "\u22f1", "\\ddots", !0), $("math", Z, "textord", "\u22ee", "\\varvdots"), $("math", Z, "accent-token", "\u02ca", "\\acute"), $("math", Z, "accent-token", "\u02cb", "\\grave"), $("math", Z, "accent-token", "\xa8", "\\ddot"), $("math", Z, "accent-token", "~", "\\tilde"), $("math", Z, "accent-token", "\u02c9", "\\bar"), $("math", Z, "accent-token", "\u02d8", "\\breve"), $("math", Z, "accent-token", "\u02c7", "\\check"), $("math", Z, "accent-token", "^", "\\hat"), $("math", Z, "accent-token", "\u20d7", "\\vec"), $("math", Z, "accent-token", "\u02d9", "\\dot"), $("math", Z, "accent-token", "\u02da", "\\mathring"), $("math", Z, Q, "\u0131", "\\imath", !0), $("math", Z, Q, "\u0237", "\\jmath", !0), $("text", Z, "textord", "\u0131", "\\i", !0), $("text", Z, "textord", "\u0237", "\\j", !0), $("text", Z, "textord", "\xdf", "\\ss", !0), $("text", Z, "textord", "\xe6", "\\ae", !0), $("text", Z, "textord", "\xe6", "\\ae", !0), $("text", Z, "textord", "\u0153", "\\oe", !0), $("text", Z, "textord", "\xf8", "\\o", !0), $("text", Z, "textord", "\xc6", "\\AE", !0), $("text", Z, "textord", "\u0152", "\\OE", !0), $("text", Z, "textord", "\xd8", "\\O", !0), $("text", Z, "accent-token", "\u02ca", "\\'"), $("text", Z, "accent-token", "\u02cb", "\\`"), $("text", Z, "accent-token", "\u02c6", "\\^"), $("text", Z, "accent-token", "\u02dc", "\\~"), $("text", Z, "accent-token", "\u02c9", "\\="), $("text", Z, "accent-token", "\u02d8", "\\u"), $("text", Z, "accent-token", "\u02d9", "\\."), $("text", Z, "accent-token", "\u02da", "\\r"), $("text", Z, "accent-token", "\u02c7", "\\v"), $("text", Z, "accent-token", "\xa8", '\\"'), $("text", Z, "accent-token", "\u02dd", "\\H"), $("text", Z, "accent-token", "\u25ef", "\\textcircled");

var rt = {

"--": !0,

"---": !0,

"``": !0,

"''": !0

};

$("text", Z, "textord", "\u2013", "--"), $("text", Z, "textord", "\u2013", "\\textendash"), $("text", Z, "textord", "\u2014", "---"), $("text", Z, "textord", "\u2014", "\\textemdash"), $("text", Z, "textord", "\u2018", "`"), $("text", Z, "textord", "\u2018", "\\textquoteleft"), $("text", Z, "textord", "\u2019", "'"), $("text", Z, "textord", "\u2019", "\\textquoteright"), $("text", Z, "textord", "\u201c", "``"), $("text", Z, "textord", "\u201c", "\\textquotedblleft"), $("text", Z, "textord", "\u201d", "''"), $("text", Z, "textord", "\u201d", "\\textquotedblright"), $("math", Z, "textord", "\xb0", "\\degree", !0), $("text", Z, "textord", "\xb0", "\\degree"), $("text", Z, "textord", "\xb0", "\\textdegree", !0), $("math", Z, Q, "\xa3", "\\pounds"), $("math", Z, Q, "\xa3", "\\mathsterling", !0), $("text", Z, Q, "\xa3", "\\pounds"), $("text", Z, Q, "\xa3", "\\textsterling", !0), $("math", K, "textord", "\u2720", "\\maltese"), $("text", K, "textord", "\u2720", "\\maltese"), $("text", Z, "spacing", "\xa0", "\\ "), $("text", Z, "spacing", "\xa0", " "), $("text", Z, "spacing", "\xa0", "~");

for (var at = 0; at < '0123456789/@."'.length; at++) {

var nt = '0123456789/@."'.charAt(at);

$("math", Z, "textord", nt, nt)

}

for (var it = 0; it < '0123456789!@\*()-=+[]<>|";:?/.,'.length; it++) {

var ot = '0123456789!@\*()-=+[]<>|";:?/.,'.charAt(it);

$("text", Z, "textord", ot, ot)

}

for (var st = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz", ht = 0; ht < st.length; ht++) {

var lt = st.charAt(ht);

$("math", Z, Q, lt, lt), $("text", Z, "textord", lt, lt)

}

$("math", K, "textord", "C", "\u2102"), $("text", K, "textord", "C", "\u2102"), $("math", K, "textord", "H", "\u210d"), $("text", K, "textord", "H", "\u210d"), $("math", K, "textord", "N", "\u2115"), $("text", K, "textord", "N", "\u2115"), $("math", K, "textord", "P", "\u2119"), $("text", K, "textord", "P", "\u2119"), $("math", K, "textord", "Q", "\u211a"), $("text", K, "textord", "Q", "\u211a"), $("math", K, "textord", "R", "\u211d"), $("text", K, "textord", "R", "\u211d"), $("math", K, "textord", "Z", "\u2124"), $("text", K, "textord", "Z", "\u2124"), $("math", Z, Q, "h", "\u210e"), $("text", Z, Q, "h", "\u210e");

for (var mt = "", ct = 0; ct < st.length; ct++) {

var ut = st.charAt(ct);

$("math", Z, Q, ut, mt = String.fromCharCode(55349, 56320 + ct)), $("text", Z, "textord", ut, mt), $("math", Z, Q, ut, mt = String.fromCharCode(55349, 56372 + ct)), $("text", Z, "textord", ut, mt), $("math", Z, Q, ut, mt = String.fromCharCode(55349, 56424 + ct)), $("text", Z, "textord", ut, mt), $("math", Z, Q, ut, mt = String.fromCharCode(55349, 56580 + ct)), $("text", Z, "textord", ut, mt), $("math", Z, Q, ut, mt = String.fromCharCode(55349, 56736 + ct)), $("text", Z, "textord", ut, mt), $("math", Z, Q, ut, mt = String.fromCharCode(55349, 56788 + ct)), $("text", Z, "textord", ut, mt), $("math", Z, Q, ut, mt = String.fromCharCode(55349, 56840 + ct)), $("text", Z, "textord", ut, mt), $("math", Z, Q, ut, mt = String.fromCharCode(55349, 56944 + ct)), $("text", Z, "textord", ut, mt), ct < 26 && ($("math", Z, Q, ut, mt = String.fromCharCode(55349, 56632 + ct)), $("text", Z, "textord", ut, mt), $("math", Z, Q, ut, mt = String.fromCharCode(55349, 56476 + ct)), $("text", Z, "textord", ut, mt))

}

$("math", Z, Q, "k", mt = String.fromCharCode(55349, 56668)), $("text", Z, "textord", "k", mt);

for (var pt = 0; pt < 10; pt++) {

var dt = pt.toString();

$("math", Z, Q, dt, mt = String.fromCharCode(55349, 57294 + pt)), $("text", Z, "textord", dt, mt), $("math", Z, Q, dt, mt = String.fromCharCode(55349, 57314 + pt)), $("text", Z, "textord", dt, mt), $("math", Z, Q, dt, mt = String.fromCharCode(55349, 57324 + pt)), $("text", Z, "textord", dt, mt), $("math", Z, Q, dt, mt = String.fromCharCode(55349, 57334 + pt)), $("text", Z, "textord", dt, mt)

}

for (var ft = 0; ft < "\xc7\xd0\xde\xe7\xfe".length; ft++) {

var gt = "\xc7\xd0\xde\xe7\xfe".charAt(ft);

$("math", Z, Q, gt, gt), $("text", Z, "textord", gt, gt)

}

$("text", Z, "textord", "\xf0", "\xf0"), $("text", Z, "textord", "\u2013", "\u2013"), $("text", Z, "textord", "\u2014", "\u2014"), $("text", Z, "textord", "\u2018", "\u2018"), $("text", Z, "textord", "\u2019", "\u2019"), $("text", Z, "textord", "\u201c", "\u201c"), $("text", Z, "textord", "\u201d", "\u201d");

var xt = [

["mathbf", "textbf", "Main-Bold"],

["mathbf", "textbf", "Main-Bold"],

["mathdefault", "textit", "Math-Italic"],

["mathdefault", "textit", "Math-Italic"],

["boldsymbol", "boldsymbol", "Main-BoldItalic"],

["boldsymbol", "boldsymbol", "Main-BoldItalic"],

["mathscr", "textscr", "Script-Regular"],

["", "", ""],

["", "", ""],

["", "", ""],

["mathfrak", "textfrak", "Fraktur-Regular"],

["mathfrak", "textfrak", "Fraktur-Regular"],

["mathbb", "textbb", "AMS-Regular"],

["mathbb", "textbb", "AMS-Regular"],

["", "", ""],

["", "", ""],

["mathsf", "textsf", "SansSerif-Regular"],

["mathsf", "textsf", "SansSerif-Regular"],

["mathboldsf", "textboldsf", "SansSerif-Bold"],

["mathboldsf", "textboldsf", "SansSerif-Bold"],

["mathitsf", "textitsf", "SansSerif-Italic"],

["mathitsf", "textitsf", "SansSerif-Italic"],

["", "", ""],

["", "", ""],

["mathtt", "texttt", "Typewriter-Regular"],

["mathtt", "texttt", "Typewriter-Regular"]

],

vt = [

["mathbf", "textbf", "Main-Bold"],

["", "", ""],

["mathsf", "textsf", "SansSerif-Regular"],

["mathboldsf", "textboldsf", "SansSerif-Bold"],

["mathtt", "texttt", "Typewriter-Regular"]

],

bt = [

[1, 1, 1],

[2, 1, 1],

[3, 1, 1],

[4, 2, 1],

[5, 2, 1],

[6, 3, 1],

[7, 4, 2],

[8, 6, 3],

[9, 7, 6],

[10, 8, 7],

[11, 10, 9]

],

yt = [.5, .6, .7, .8, .9, 1, 1.2, 1.44, 1.728, 2.074, 2.488],

wt = function (t, e) {

return e.size < 2 ? t : bt[t - 1][e.size - 1]

},

kt = function () {

function t(e) {

this.style = void 0, this.color = void 0, this.size = void 0, this.textSize = void 0, this.phantom = void 0, this.font = void 0, this.fontFamily = void 0, this.fontWeight = void 0, this.fontShape = void 0, this.sizeMultiplier = void 0, this.maxSize = void 0, this.minRuleThickness = void 0, this.\_fontMetrics = void 0, this.style = e.style, this.color = e.color, this.size = e.size || t.BASESIZE, this.textSize = e.textSize || this.size, this.phantom = !!e.phantom, this.font = e.font || "", this.fontFamily = e.fontFamily || "", this.fontWeight = e.fontWeight || "", this.fontShape = e.fontShape || "", this.sizeMultiplier = yt[this.size - 1], this.maxSize = e.maxSize, this.minRuleThickness = e.minRuleThickness, this.\_fontMetrics = void 0

}

var e = t.prototype;

return e.extend = function (e) {

var r = {

style: this.style,

size: this.size,

textSize: this.textSize,

color: this.color,

phantom: this.phantom,

font: this.font,

fontFamily: this.fontFamily,

fontWeight: this.fontWeight,

fontShape: this.fontShape,

maxSize: this.maxSize,

minRuleThickness: this.minRuleThickness

};

for (var a in e) e.hasOwnProperty(a) && (r[a] = e[a]);

return new t(r)

}, e.havingStyle = function (t) {

return this.style === t ? this : this.extend({

style: t,

size: wt(this.textSize, t)

})

}, e.havingCrampedStyle = function () {

return this.havingStyle(this.style.cramp())

}, e.havingSize = function (t) {

return this.size === t && this.textSize === t ? this : this.extend({

style: this.style.text(),

size: t,

textSize: t,

sizeMultiplier: yt[t - 1]

})

}, e.havingBaseStyle = function (e) {

e = e || this.style.text();

var r = wt(t.BASESIZE, e);

return this.size === r && this.textSize === t.BASESIZE && this.style === e ? this : this.extend({

style: e,

size: r

})

}, e.havingBaseSizing = function () {

var t;

switch (this.style.id) {

case 4:

case 5:

t = 3;

break;

case 6:

case 7:

t = 1;

break;

default:

t = 6

}

return this.extend({

style: this.style.text(),

size: t

})

}, e.withColor = function (t) {

return this.extend({

color: t

})

}, e.withPhantom = function () {

return this.extend({

phantom: !0

})

}, e.withFont = function (t) {

return this.extend({

font: t

})

}, e.withTextFontFamily = function (t) {

return this.extend({

fontFamily: t,

font: ""

})

}, e.withTextFontWeight = function (t) {

return this.extend({

fontWeight: t,

font: ""

})

}, e.withTextFontShape = function (t) {

return this.extend({

fontShape: t,

font: ""

})

}, e.sizingClasses = function (t) {

return t.size !== this.size ? ["sizing", "reset-size" + t.size, "size" + this.size] : []

}, e.baseSizingClasses = function () {

return this.size !== t.BASESIZE ? ["sizing", "reset-size" + this.size, "size" + t.BASESIZE] : []

}, e.fontMetrics = function () {

return this.\_fontMetrics || (this.\_fontMetrics = function (t) {

var e;

if (!Y[e = t >= 5 ? 0 : t >= 3 ? 1 : 2]) {

var r = Y[e] = {

cssEmPerMu: V.quad[e] / 18

};

for (var a in V) V.hasOwnProperty(a) && (r[a] = V[a][e])

}

return Y[e]

}(this.size)), this.\_fontMetrics

}, e.getColor = function () {

return this.phantom ? "transparent" : this.color

}, t

}();

kt.BASESIZE = 6;

var St = kt,

Mt = {

pt: 1,

mm: 7227 / 2540,

cm: 7227 / 254,

in: 72.27,

bp: 1.00375,

pc: 12,

dd: 1238 / 1157,

cc: 14856 / 1157,

nd: 685 / 642,

nc: 1370 / 107,

sp: 1 / 65536,

px: 1.00375

},

zt = {

ex: !0,

em: !0,

mu: !0

},

At = function (t) {

return "string" != typeof t && (t = t.unit), t in Mt || t in zt || "ex" === t

},

Tt = function (t, e) {

var r;

if (t.unit in Mt) r = Mt[t.unit] / e.fontMetrics().ptPerEm / e.sizeMultiplier;

else if ("mu" === t.unit) r = e.fontMetrics().cssEmPerMu;

else {

var a;

if (a = e.style.isTight() ? e.havingStyle(e.style.text()) : e, "ex" === t.unit) r = a.fontMetrics().xHeight;

else {

if ("em" !== t.unit) throw new o("Invalid unit: '" + t.unit + "'");

r = a.fontMetrics().quad

}

a !== e && (r \*= a.sizeMultiplier / e.sizeMultiplier)

}

return Math.min(t.number \* r, e.maxSize)

},

Bt = ["\\imath", "\u0131", "\\jmath", "\u0237", "\\pounds", "\\mathsterling", "\\textsterling", "\xa3"],

Ct = function (t, e, r) {

return j[r][t] && j[r][t].replace && (t = j[r][t].replace), {

value: t,

metrics: G(t, e, r)

}

},

qt = function (t, e, r, a, n) {

var i, o = Ct(t, e, r),

s = o.metrics;

if (t = o.value, s) {

var h = s.italic;

("text" === r || a && "mathit" === a.font) && (h = 0), i = new E(t, s.height, s.depth, h, s.skew, s.width, n)

} else "undefined" != typeof console && console.warn("No character metrics for '" + t + "' in style '" + e + "' and mode '" + r + "'"), i = new E(t, 0, 0, 0, 0, 0, n);

if (a) {

i.maxFontSize = a.sizeMultiplier, a.style.isTight() && i.classes.push("mtight");

var l = a.getColor();

l && (i.style.color = l)

}

return i

},

Nt = function (t, e) {

if (T(t.classes) !== T(e.classes) || t.skew !== e.skew || t.maxFontSize !== e.maxFontSize) return !1;

for (var r in t.style)

if (t.style.hasOwnProperty(r) && t.style[r] !== e.style[r]) return !1;

for (var a in e.style)

if (e.style.hasOwnProperty(a) && t.style[a] !== e.style[a]) return !1;

return !0

},

It = function (t) {

for (var e = 0, r = 0, a = 0, n = 0; n < t.children.length; n++) {

var i = t.children[n];

i.height > e && (e = i.height), i.depth > r && (r = i.depth), i.maxFontSize > a && (a = i.maxFontSize)

}

t.height = e, t.depth = r, t.maxFontSize = a

},

Rt = function (t, e, r, a) {

var n = new N(t, e, r, a);

return It(n), n

},

Ot = function (t, e, r, a) {

return new N(t, e, r, a)

},

Et = function (t) {

var e = new A(t);

return It(e), e

},

Lt = function (t, e, r) {

var a = "";

switch (t) {

case "amsrm":

a = "AMS";

break;

case "textrm":

a = "Main";

break;

case "textsf":

a = "SansSerif";

break;

case "texttt":

a = "Typewriter";

break;

default:

a = t

}

return a + "-" + ("textbf" === e && "textit" === r ? "BoldItalic" : "textbf" === e ? "Bold" : "textit" === e ? "Italic" : "Regular")

},

Ht = {

mathbf: {

variant: "bold",

fontName: "Main-Bold"

},

mathrm: {

variant: "normal",

fontName: "Main-Regular"

},

textit: {

variant: "italic",

fontName: "Main-Italic"

},

mathit: {

variant: "italic",

fontName: "Main-Italic"

},

mathbb: {

variant: "double-struck",

fontName: "AMS-Regular"

},

mathcal: {

variant: "script",

fontName: "Caligraphic-Regular"

},

mathfrak: {

variant: "fraktur",

fontName: "Fraktur-Regular"

},

mathscr: {

variant: "script",

fontName: "Script-Regular"

},

mathsf: {

variant: "sans-serif",

fontName: "SansSerif-Regular"

},

mathtt: {

variant: "monospace",

fontName: "Typewriter-Regular"

}

},

Pt = {

vec: ["vec", .471, .714],

oiintSize1: ["oiintSize1", .957, .499],

oiintSize2: ["oiintSize2", 1.472, .659],

oiiintSize1: ["oiiintSize1", 1.304, .499],

oiiintSize2: ["oiiintSize2", 1.98, .659]

},

Dt = {

fontMap: Ht,

makeSymbol: qt,

mathsym: function (t, e, r, a) {

return void 0 === a && (a = []), "boldsymbol" === r.font && Ct(t, "Main-Bold", e).metrics ? qt(t, "Main-Bold", e, r, a.concat(["mathbf"])) : "\\" === t || "main" === j[e][t].font ? qt(t, "Main-Regular", e, r, a) : qt(t, "AMS-Regular", e, r, a.concat(["amsrm"]))

},

makeSpan: Rt,

makeSvgSpan: Ot,

makeLineSpan: function (t, e, r) {

var a = Rt([t], [], e);

return a.height = Math.max(r || e.fontMetrics().defaultRuleThickness, e.minRuleThickness), a.style.borderBottomWidth = a.height + "em", a.maxFontSize = 1, a

},

makeAnchor: function (t, e, r, a) {

var n = new I(t, e, r, a);

return It(n), n

},

makeFragment: Et,

wrapFragment: function (t, e) {

return t instanceof A ? Rt([], [t], e) : t

},

makeVList: function (t, e) {

for (var r = function (t) {

if ("individualShift" === t.positionType) {

for (var e = t.children, r = [e[0]], a = -e[0].shift - e[0].elem.depth, n = a, i = 1; i < e.length; i++) {

var o = -e[i].shift - n - e[i].elem.depth,

s = o - (e[i - 1].elem.height + e[i - 1].elem.depth);

n += o, r.push({

type: "kern",

size: s

}), r.push(e[i])

}

return {

children: r,

depth: a

}

}

var h;

if ("top" === t.positionType) {

for (var l = t.positionData, m = 0; m < t.children.length; m++) {

var c = t.children[m];

l -= "kern" === c.type ? c.size : c.elem.height + c.elem.depth

}

h = l

} else if ("bottom" === t.positionType) h = -t.positionData;

else {

var u = t.children[0];

if ("elem" !== u.type) throw new Error('First child must have type "elem".');

if ("shift" === t.positionType) h = -u.elem.depth - t.positionData;

else {

if ("firstBaseline" !== t.positionType) throw new Error("Invalid positionType " + t.positionType + ".");

h = -u.elem.depth

}

}

return {

children: t.children,

depth: h

}

}(t), a = r.children, n = r.depth, i = 0, o = 0; o < a.length; o++) {

var s = a[o];

if ("elem" === s.type) {

var h = s.elem;

i = Math.max(i, h.maxFontSize, h.height)

}

}

i += 2;

var l = Rt(["pstrut"], []);

l.style.height = i + "em";

for (var m = [], c = n, u = n, p = n, d = 0; d < a.length; d++) {

var f = a[d];

if ("kern" === f.type) p += f.size;

else {

var g = f.elem,

x = f.wrapperClasses || [],

v = f.wrapperStyle || {},

b = Rt(x, [l, g], void 0, v);

b.style.top = -i - p - g.depth + "em", f.marginLeft && (b.style.marginLeft = f.marginLeft), f.marginRight && (b.style.marginRight = f.marginRight), m.push(b), p += g.height + g.depth

}

c = Math.min(c, p), u = Math.max(u, p)

}

var y, w = Rt(["vlist"], m);

if (w.style.height = u + "em", c < 0) {

var k = Rt([], []),

S = Rt(["vlist"], [k]);

S.style.height = -c + "em";

var M = Rt(["vlist-s"], [new E("\u200b")]);

y = [Rt(["vlist-r"], [w, M]), Rt(["vlist-r"], [S])]

} else y = [Rt(["vlist-r"], [w])];

var z = Rt(["vlist-t"], y);

return 2 === y.length && z.classes.push("vlist-t2"), z.height = u, z.depth = -c, z

},

makeOrd: function (t, e, r) {

var a, n = t.mode,

i = t.text,

s = ["mord"],

h = "math" === n || "text" === n && e.font,

l = h ? e.font : e.fontFamily;

if (55349 === i.charCodeAt(0)) {

var m = function (t, e) {

var r = 1024 \* (t.charCodeAt(0) - 55296) + (t.charCodeAt(1) - 56320) + 65536,

a = "math" === e ? 0 : 1;

if (119808 <= r && r < 120484) {

var n = Math.floor((r - 119808) / 26);

return [xt[n][2], xt[n][a]]

}

if (120782 <= r && r <= 120831) {

var i = Math.floor((r - 120782) / 10);

return [vt[i][2], vt[i][a]]

}

if (120485 === r || 120486 === r) return [xt[0][2], xt[0][a]];

if (120486 < r && r < 120782) return ["", ""];

throw new o("Unsupported character: " + t)

}(i, n),

u = m[0],

p = m[1];

return qt(i, u, n, e, s.concat(p))

}

if (l) {

var d, f;

if ("boldsymbol" === l || "mathnormal" === l) {

var g = "boldsymbol" === l ? function (t, e, r, a) {

return Ct(t, "Math-BoldItalic", e).metrics ? {

fontName: "Math-BoldItalic",

fontClass: "boldsymbol"

} : {

fontName: "Main-Bold",

fontClass: "mathbf"

}

}(i, n) : (a = i, c.contains(Bt, a) ? {

fontName: "Main-Italic",

fontClass: "mathit"

} : /[0-9]/.test(a.charAt(0)) ? {

fontName: "Caligraphic-Regular",

fontClass: "mathcal"

} : {

fontName: "Math-Italic",

fontClass: "mathdefault"

});

d = g.fontName, f = [g.fontClass]

} else c.contains(Bt, i) ? (d = "Main-Italic", f = ["mathit"]) : h ? (d = Ht[l].fontName, f = [l]) : (d = Lt(l, e.fontWeight, e.fontShape), f = [l, e.fontWeight, e.fontShape]);

if (Ct(i, d, n).metrics) return qt(i, d, n, e, s.concat(f));

if (rt.hasOwnProperty(i) && "Typewriter" === d.substr(0, 10)) {

for (var x = [], v = 0; v < i.length; v++) x.push(qt(i[v], d, n, e, s.concat(f)));

return Et(x)

}

}

if ("mathord" === r) {

var b = function (t, e, r, a) {

return /[0-9]/.test(t.charAt(0)) || c.contains(Bt, t) ? {

fontName: "Main-Italic",

fontClass: "mathit"

} : {

fontName: "Math-Italic",

fontClass: "mathdefault"

}

}(i);

return qt(i, b.fontName, n, e, s.concat([b.fontClass]))

}

if ("textord" === r) {

var y = j[n][i] && j[n][i].font;

if ("ams" === y) {

var w = Lt("amsrm", e.fontWeight, e.fontShape);

return qt(i, w, n, e, s.concat("amsrm", e.fontWeight, e.fontShape))

}

if ("main" !== y && y) {

var k = Lt(y, e.fontWeight, e.fontShape);

return qt(i, k, n, e, s.concat(k, e.fontWeight, e.fontShape))

}

var S = Lt("textrm", e.fontWeight, e.fontShape);

return qt(i, S, n, e, s.concat(e.fontWeight, e.fontShape))

}

throw new Error("unexpected type: " + r + " in makeOrd")

},

makeGlue: function (t, e) {

var r = Rt(["mspace"], [], e),

a = Tt(t, e);

return r.style.marginRight = a + "em", r

},

staticSvg: function (t, e) {

var r = Pt[t],

a = r[0],

n = r[1],

i = r[2],

o = new H(a),

s = new L([o], {

width: n + "em",

height: i + "em",

style: "width:" + n + "em",

viewBox: "0 0 " + 1e3 \* n + " " + 1e3 \* i,

preserveAspectRatio: "xMinYMin"

}),

h = Ot(["overlay"], [s], e);

return h.height = i, h.style.height = i + "em", h.style.width = n + "em", h

},

svgData: Pt,

tryCombineChars: function (t) {

for (var e = 0; e < t.length - 1; e++) {

var r = t[e],

a = t[e + 1];

r instanceof E && a instanceof E && Nt(r, a) && (r.text += a.text, r.height = Math.max(r.height, a.height), r.depth = Math.max(r.depth, a.depth), r.italic = a.italic, t.splice(e + 1, 1), e--)

}

return t

}

};

function Ft(t, e) {

var r = Vt(t, e);

if (!r) throw new Error("Expected node of type " + e + ", but got " + (t ? "node of type " + t.type : String(t)));

return r

}

function Vt(t, e) {

return t && t.type === e ? t : null

}

function Ut(t, e) {

var r = function (t, e) {

return t && "atom" === t.type && t.family === e ? t : null

}(t, e);

if (!r) throw new Error('Expected node of type "atom" and family "' + e + '", but got ' + (t ? "atom" === t.type ? "atom of family " + t.family : "node of type " + t.type : String(t)));

return r

}

function Gt(t) {

var e = Yt(t);

if (!e) throw new Error("Expected node of symbol group type, but got " + (t ? "node of type " + t.type : String(t)));

return e

}

function Yt(t) {

return t && ("atom" === t.type || X.hasOwnProperty(t.type)) ? t : null

}

var Wt = {

number: 3,

unit: "mu"

},

Xt = {

number: 4,

unit: "mu"

},

\_t = {

number: 5,

unit: "mu"

},

jt = {

mord: {

mop: Wt,

mbin: Xt,

mrel: \_t,

minner: Wt

},

mop: {

mord: Wt,

mop: Wt,

mrel: \_t,

minner: Wt

},

mbin: {

mord: Xt,

mop: Xt,

mopen: Xt,

minner: Xt

},

mrel: {

mord: \_t,

mop: \_t,

mopen: \_t,

minner: \_t

},

mopen: {},

mclose: {

mop: Wt,

mbin: Xt,

mrel: \_t,

minner: Wt

},

mpunct: {

mord: Wt,

mop: Wt,

mrel: \_t,

mopen: Wt,

mclose: Wt,

mpunct: Wt,

minner: Wt

},

minner: {

mord: Wt,

mop: Wt,

mbin: Xt,

mrel: \_t,

mopen: Wt,

mpunct: Wt,

minner: Wt

}

},

$t = {

mord: {

mop: Wt

},

mop: {

mord: Wt,

mop: Wt

},

mbin: {},

mrel: {},

mopen: {},

mclose: {

mop: Wt

},

mpunct: {},

minner: {

mop: Wt

}

},

Zt = {},

Kt = {},

Jt = {};

function Qt(t) {

for (var e = t.type, r = t.names, a = t.props, n = t.handler, i = t.htmlBuilder, o = t.mathmlBuilder, s = {

type: e,

numArgs: a.numArgs,

argTypes: a.argTypes,

greediness: void 0 === a.greediness ? 1 : a.greediness,

allowedInText: !!a.allowedInText,

allowedInMath: void 0 === a.allowedInMath || a.allowedInMath,

numOptionalArgs: a.numOptionalArgs || 0,

infix: !!a.infix,

handler: n

}, h = 0; h < r.length; ++h) Zt[r[h]] = s;

e && (i && (Kt[e] = i), o && (Jt[e] = o))

}

function te(t) {

Qt({

type: t.type,

names: [],

props: {

numArgs: 0

},

handler: function () {

throw new Error("Should never be called.")

},

htmlBuilder: t.htmlBuilder,

mathmlBuilder: t.mathmlBuilder

})

}

var ee = function (t) {

var e = Vt(t, "ordgroup");

return e ? e.body : [t]

},

re = Dt.makeSpan,

ae = ["leftmost", "mbin", "mopen", "mrel", "mop", "mpunct"],

ne = ["rightmost", "mrel", "mclose", "mpunct"],

ie = {

display: w.DISPLAY,

text: w.TEXT,

script: w.SCRIPT,

scriptscript: w.SCRIPTSCRIPT

},

oe = {

mord: "mord",

mop: "mop",

mbin: "mbin",

mrel: "mrel",

mopen: "mopen",

mclose: "mclose",

mpunct: "mpunct",

minner: "minner"

},

se = function (t, e, r, a) {

void 0 === a && (a = [null, null]);

for (var n = [], i = 0; i < t.length; i++) {

var o = ue(t[i], e);

if (o instanceof A) {

var s = o.children;

n.push.apply(n, s)

} else n.push(o)

}

if (!r) return n;

var h = e;

if (1 === t.length) {

var l = Vt(t[0], "sizing") || Vt(t[0], "styling");

l && ("sizing" === l.type ? h = e.havingSize(l.size) : "styling" === l.type && (h = e.havingStyle(ie[l.style])))

}

var m = re([a[0] || "leftmost"], [], e),

u = re([a[1] || "rightmost"], [], e);

return he(n, function (t, e) {

var r = e.classes[0],

a = t.classes[0];

"mbin" === r && c.contains(ne, a) ? e.classes[0] = "mord" : "mbin" === a && c.contains(ae, r) && (t.classes[0] = "mord")

}, {

node: m

}, u), he(n, function (t, e) {

var r = me(e),

a = me(t),

n = r && a ? t.hasClass("mtight") ? $t[r][a] : jt[r][a] : null;

if (n) return Dt.makeGlue(n, h)

}, {

node: m

}, u), n

},

he = function t(e, r, a, n) {

n && e.push(n);

for (var i = 0; i < e.length; i++) {

var o = e[i],

s = le(o);

if (s) t(s.children, r, a);

else if ("mspace" !== o.classes[0]) {

var h = r(o, a.node);

h && (a.insertAfter ? a.insertAfter(h) : (e.unshift(h), i++)), a.node = o, a.insertAfter = function (t) {

return function (r) {

e.splice(t + 1, 0, r), i++

}

}(i)

}

}

n && e.pop()

},

le = function (t) {

return t instanceof A || t instanceof I ? t : null

},

me = function (t, e) {

return t ? (e && (t = function t(e, r) {

var a = le(e);

if (a) {

var n = a.children;

if (n.length) {

if ("right" === r) return t(n[n.length - 1], "right");

if ("left" === r) return t(n[0], "left")

}

}

return e

}(t, e)), oe[t.classes[0]] || null) : null

},

ce = function (t, e) {

var r = ["nulldelimiter"].concat(t.baseSizingClasses());

return re(e.concat(r))

},

ue = function (t, e, r) {

if (!t) return re();

if (Kt[t.type]) {

var a = Kt[t.type](t, e);

if (r && e.size !== r.size) {

a = re(e.sizingClasses(r), [a], e);

var n = e.sizeMultiplier / r.sizeMultiplier;

a.height \*= n, a.depth \*= n

}

return a

}

throw new o("Got group of unknown type: '" + t.type + "'")

};

function pe(t, e) {

var r = re(["base"], t, e),

a = re(["strut"]);

return a.style.height = r.height + r.depth + "em", a.style.verticalAlign = -r.depth + "em", r.children.unshift(a), r

}

function de(t, e) {

var r = null;

1 === t.length && "tag" === t[0].type && (r = t[0].tag, t = t[0].body);

for (var a, n = se(t, e, !0), i = [], o = [], s = 0; s < n.length; s++)

if (o.push(n[s]), n[s].hasClass("mbin") || n[s].hasClass("mrel") || n[s].hasClass("allowbreak")) {

for (var h = !1; s < n.length - 1 && n[s + 1].hasClass("mspace") && !n[s + 1].hasClass("newline");) s++, o.push(n[s]), n[s].hasClass("nobreak") && (h = !0);

h || (i.push(pe(o, e)), o = [])

} else n[s].hasClass("newline") && (o.pop(), o.length > 0 && (i.push(pe(o, e)), o = []), i.push(n[s]));

o.length > 0 && i.push(pe(o, e)), r && ((a = pe(se(r, e, !0))).classes = ["tag"], i.push(a));

var l = re(["katex-html"], i);

if (l.setAttribute("aria-hidden", "true"), a) {

var m = a.children[0];

m.style.height = l.height + l.depth + "em", m.style.verticalAlign = -l.depth + "em"

}

return l

}

function fe(t) {

return new A(t)

}

var ge = function () {

function t(t, e) {

this.type = void 0, this.attributes = void 0, this.children = void 0, this.type = t, this.attributes = {}, this.children = e || []

}

var e = t.prototype;

return e.setAttribute = function (t, e) {

this.attributes[t] = e

}, e.getAttribute = function (t) {

return this.attributes[t]

}, e.toNode = function () {

var t = document.createElementNS("http://www.w3.org/1998/Math/MathML", this.type);

for (var e in this.attributes) Object.prototype.hasOwnProperty.call(this.attributes, e) && t.setAttribute(e, this.attributes[e]);

for (var r = 0; r < this.children.length; r++) t.appendChild(this.children[r].toNode());

return t

}, e.toMarkup = function () {

var t = "<" + this.type;

for (var e in this.attributes) Object.prototype.hasOwnProperty.call(this.attributes, e) && (t += " " + e + '="', t += c.escape(this.attributes[e]), t += '"');

t += ">";

for (var r = 0; r < this.children.length; r++) t += this.children[r].toMarkup();

return t += "</" + this.type + ">"

}, e.toText = function () {

return this.children.map(function (t) {

return t.toText()

}).join("")

}, t

}(),

xe = function () {

function t(t) {

this.text = void 0, this.text = t

}

var e = t.prototype;

return e.toNode = function () {

return document.createTextNode(this.text)

}, e.toMarkup = function () {

return c.escape(this.toText())

}, e.toText = function () {

return this.text

}, t

}(),

ve = {

MathNode: ge,

TextNode: xe,

SpaceNode: function () {

function t(t) {

this.width = void 0, this.character = void 0, this.width = t, this.character = t >= .05555 && t <= .05556 ? "\u200a" : t >= .1666 && t <= .1667 ? "\u2009" : t >= .2222 && t <= .2223 ? "\u2005" : t >= .2777 && t <= .2778 ? "\u2005\u200a" : t >= -.05556 && t <= -.05555 ? "\u200a\u2063" : t >= -.1667 && t <= -.1666 ? "\u2009\u2063" : t >= -.2223 && t <= -.2222 ? "\u205f\u2063" : t >= -.2778 && t <= -.2777 ? "\u2005\u2063" : null

}

var e = t.prototype;

return e.toNode = function () {

if (this.character) return document.createTextNode(this.character);

var t = document.createElementNS("http://www.w3.org/1998/Math/MathML", "mspace");

return t.setAttribute("width", this.width + "em"), t

}, e.toMarkup = function () {

return this.character ? "<mtext>" + this.character + "</mtext>" : '<mspace width="' + this.width + 'em"/>'

}, e.toText = function () {

return this.character ? this.character : " "

}, t

}(),

newDocumentFragment: fe

},

be = function (t, e, r) {

return !j[e][t] || !j[e][t].replace || 55349 === t.charCodeAt(0) || rt.hasOwnProperty(t) && r && (r.fontFamily && "tt" === r.fontFamily.substr(4, 2) || r.font && "tt" === r.font.substr(4, 2)) || (t = j[e][t].replace), new ve.TextNode(t)

},

ye = function (t) {

return 1 === t.length ? t[0] : new ve.MathNode("mrow", t)

},

we = function (t, e) {

if ("texttt" === e.fontFamily) return "monospace";

if ("textsf" === e.fontFamily) return "textit" === e.fontShape && "textbf" === e.fontWeight ? "sans-serif-bold-italic" : "textit" === e.fontShape ? "sans-serif-italic" : "textbf" === e.fontWeight ? "bold-sans-serif" : "sans-serif";

if ("textit" === e.fontShape && "textbf" === e.fontWeight) return "bold-italic";

if ("textit" === e.fontShape) return "italic";

if ("textbf" === e.fontWeight) return "bold";

var r = e.font;

if (!r || "mathnormal" === r) return null;

var a = t.mode;

if ("mathit" === r) return "italic";

if ("boldsymbol" === r) return "bold-italic";

if ("mathbf" === r) return "bold";

if ("mathbb" === r) return "double-struck";

if ("mathfrak" === r) return "fraktur";

if ("mathscr" === r || "mathcal" === r) return "script";

if ("mathsf" === r) return "sans-serif";

if ("mathtt" === r) return "monospace";

var n = t.text;

return c.contains(["\\imath", "\\jmath"], n) ? null : (j[a][n] && j[a][n].replace && (n = j[a][n].replace), G(n, Dt.fontMap[r].fontName, a) ? Dt.fontMap[r].variant : null)

},

ke = function (t, e, r) {

if (1 === t.length) {

var a = Me(t[0], e);

return r && a instanceof ge && "mo" === a.type && (a.setAttribute("lspace", "0em"), a.setAttribute("rspace", "0em")), [a]

}

for (var n, i = [], o = 0; o < t.length; o++) {

var s = Me(t[o], e);

if (s instanceof ge && n instanceof ge) {

if ("mtext" === s.type && "mtext" === n.type && s.getAttribute("mathvariant") === n.getAttribute("mathvariant")) {

var h;

(h = n.children).push.apply(h, s.children);

continue

}

if ("mn" === s.type && "mn" === n.type) {

var l;

(l = n.children).push.apply(l, s.children);

continue

}

if ("mi" === s.type && 1 === s.children.length && "mn" === n.type) {

var m = s.children[0];

if (m instanceof xe && "." === m.text) {

var c;

(c = n.children).push.apply(c, s.children);

continue

}

} else if ("mi" === n.type && 1 === n.children.length) {

var u = n.children[0];

if (u instanceof xe && "\u0338" === u.text && ("mo" === s.type || "mi" === s.type || "mn" === s.type)) {

var p = s.children[0];

p instanceof xe && p.text.length > 0 && (p.text = p.text.slice(0, 1) + "\u0338" + p.text.slice(1), i.pop())

}

}

}

i.push(s), n = s

}

return i

},

Se = function (t, e, r) {

return ye(ke(t, e, r))

},

Me = function (t, e) {

if (!t) return new ve.MathNode("mrow");

if (Jt[t.type]) return Jt[t.type](t, e);

throw new o("Got group of unknown type: '" + t.type + "'")

};

function ze(t, e, r, a) {

var n, i = ke(t, r);

n = 1 === i.length && i[0] instanceof ge && c.contains(["mrow", "mtable"], i[0].type) ? i[0] : new ve.MathNode("mrow", i);

var o = new ve.MathNode("annotation", [new ve.TextNode(e)]);

o.setAttribute("encoding", "application/x-tex");

var s = new ve.MathNode("semantics", [n, o]),

h = new ve.MathNode("math", [s]);

h.setAttribute("xmlns", "http://www.w3.org/1998/Math/MathML");

var l = a ? "katex" : "katex-mathml";

return Dt.makeSpan([l], [h])

}

var Ae = function (t) {

return new St({

style: t.displayMode ? w.DISPLAY : w.TEXT,

maxSize: t.maxSize,

minRuleThickness: t.minRuleThickness

})

},

Te = function (t, e) {

if (e.displayMode) {

var r = ["katex-display"];

e.leqno && r.push("leqno"), e.fleqn && r.push("fleqn"), t = Dt.makeSpan(r, [t])

}

return t

},

Be = function (t, e, r) {

var a, n = Ae(r);

if ("mathml" === r.output) return ze(t, e, n, !0);

if ("html" === r.output) {

var i = de(t, n);

a = Dt.makeSpan(["katex"], [i])

} else {

var o = ze(t, e, n, !1),

s = de(t, n);

a = Dt.makeSpan(["katex"], [o, s])

}

return Te(a, r)

},

Ce = {

widehat: "^",

widecheck: "\u02c7",

widetilde: "~",

utilde: "~",

overleftarrow: "\u2190",

underleftarrow: "\u2190",

xleftarrow: "\u2190",

overrightarrow: "\u2192",

underrightarrow: "\u2192",

xrightarrow: "\u2192",

underbrace: "\u23df",

overbrace: "\u23de",

overgroup: "\u23e0",

undergroup: "\u23e1",

overleftrightarrow: "\u2194",

underleftrightarrow: "\u2194",

xleftrightarrow: "\u2194",

Overrightarrow: "\u21d2",

xRightarrow: "\u21d2",

overleftharpoon: "\u21bc",

xleftharpoonup: "\u21bc",

overrightharpoon: "\u21c0",

xrightharpoonup: "\u21c0",

xLeftarrow: "\u21d0",

xLeftrightarrow: "\u21d4",

xhookleftarrow: "\u21a9",

xhookrightarrow: "\u21aa",

xmapsto: "\u21a6",

xrightharpoondown: "\u21c1",

xleftharpoondown: "\u21bd",

xrightleftharpoons: "\u21cc",

xleftrightharpoons: "\u21cb",

xtwoheadleftarrow: "\u219e",

xtwoheadrightarrow: "\u21a0",

xlongequal: "=",

xtofrom: "\u21c4",

xrightleftarrows: "\u21c4",

xrightequilibrium: "\u21cc",

xleftequilibrium: "\u21cb"

},

qe = {

overrightarrow: [

["rightarrow"], .888, 522, "xMaxYMin"

],

overleftarrow: [

["leftarrow"], .888, 522, "xMinYMin"

],

underrightarrow: [

["rightarrow"], .888, 522, "xMaxYMin"

],

underleftarrow: [

["leftarrow"], .888, 522, "xMinYMin"

],

xrightarrow: [

["rightarrow"], 1.469, 522, "xMaxYMin"

],

xleftarrow: [

["leftarrow"], 1.469, 522, "xMinYMin"

],

Overrightarrow: [

["doublerightarrow"], .888, 560, "xMaxYMin"

],

xRightarrow: [

["doublerightarrow"], 1.526, 560, "xMaxYMin"

],

xLeftarrow: [

["doubleleftarrow"], 1.526, 560, "xMinYMin"

],

overleftharpoon: [

["leftharpoon"], .888, 522, "xMinYMin"

],

xleftharpoonup: [

["leftharpoon"], .888, 522, "xMinYMin"

],

xleftharpoondown: [

["leftharpoondown"], .888, 522, "xMinYMin"

],

overrightharpoon: [

["rightharpoon"], .888, 522, "xMaxYMin"

],

xrightharpoonup: [

["rightharpoon"], .888, 522, "xMaxYMin"

],

xrightharpoondown: [

["rightharpoondown"], .888, 522, "xMaxYMin"

],

xlongequal: [

["longequal"], .888, 334, "xMinYMin"

],

xtwoheadleftarrow: [

["twoheadleftarrow"], .888, 334, "xMinYMin"

],

xtwoheadrightarrow: [

["twoheadrightarrow"], .888, 334, "xMaxYMin"

],

overleftrightarrow: [

["leftarrow", "rightarrow"], .888, 522

],

overbrace: [

["leftbrace", "midbrace", "rightbrace"], 1.6, 548

],

underbrace: [

["leftbraceunder", "midbraceunder", "rightbraceunder"], 1.6, 548

],

underleftrightarrow: [

["leftarrow", "rightarrow"], .888, 522

],

xleftrightarrow: [

["leftarrow", "rightarrow"], 1.75, 522

],

xLeftrightarrow: [

["doubleleftarrow", "doublerightarrow"], 1.75, 560

],

xrightleftharpoons: [

["leftharpoondownplus", "rightharpoonplus"], 1.75, 716

],

xleftrightharpoons: [

["leftharpoonplus", "rightharpoondownplus"], 1.75, 716

],

xhookleftarrow: [

["leftarrow", "righthook"], 1.08, 522

],

xhookrightarrow: [

["lefthook", "rightarrow"], 1.08, 522

],

overlinesegment: [

["leftlinesegment", "rightlinesegment"], .888, 522

],

underlinesegment: [

["leftlinesegment", "rightlinesegment"], .888, 522

],

overgroup: [

["leftgroup", "rightgroup"], .888, 342

],

undergroup: [

["leftgroupunder", "rightgroupunder"], .888, 342

],

xmapsto: [

["leftmapsto", "rightarrow"], 1.5, 522

],

xtofrom: [

["leftToFrom", "rightToFrom"], 1.75, 528

],

xrightleftarrows: [

["baraboveleftarrow", "rightarrowabovebar"], 1.75, 901

],

xrightequilibrium: [

["baraboveshortleftharpoon", "rightharpoonaboveshortbar"], 1.75, 716

],

xleftequilibrium: [

["shortbaraboveleftharpoon", "shortrightharpoonabovebar"], 1.75, 716

]

},

Ne = function (t) {

return "ordgroup" === t.type ? t.body.length : 1

},

Ie = function (t, e, r, a) {

var n, i = t.height + t.depth + 2 \* r;

if (/fbox|color/.test(e)) {

if (n = Dt.makeSpan(["stretchy", e], [], a), "fbox" === e) {

var o = a.color && a.getColor();

o && (n.style.borderColor = o)

}

} else {

var s = [];

/^[bx]cancel$/.test(e) && s.push(new P({

x1: "0",

y1: "0",

x2: "100%",

y2: "100%",

"stroke-width": "0.046em"

})), /^x?cancel$/.test(e) && s.push(new P({

x1: "0",

y1: "100%",

x2: "100%",

y2: "0",

"stroke-width": "0.046em"

}));

var h = new L(s, {

width: "100%",

height: i + "em"

});

n = Dt.makeSvgSpan([], [h], a)

}

return n.height = i, n.style.height = i + "em", n

},

Re = function (t) {

var e = new ve.MathNode("mo", [new ve.TextNode(Ce[t.substr(1)])]);

return e.setAttribute("stretchy", "true"), e

},

Oe = function (t, e) {

var r = function () {

var r = 4e5,

a = t.label.substr(1);

if (c.contains(["widehat", "widecheck", "widetilde", "utilde"], a)) {

var n, i, o, s = Ne(t.base);

if (s > 5) "widehat" === a || "widecheck" === a ? (n = 420, r = 2364, o = .42, i = a + "4") : (n = 312, r = 2340, o = .34, i = "tilde4");

else {

var h = [1, 1, 2, 2, 3, 3][s];

"widehat" === a || "widecheck" === a ? (r = [0, 1062, 2364, 2364, 2364][h], n = [0, 239, 300, 360, 420][h], o = [0, .24, .3, .3, .36, .42][h], i = a + h) : (r = [0, 600, 1033, 2339, 2340][h], n = [0, 260, 286, 306, 312][h], o = [0, .26, .286, .3, .306, .34][h], i = "tilde" + h)

}

var l = new H(i),

m = new L([l], {

width: "100%",

height: o + "em",

viewBox: "0 0 " + r + " " + n,

preserveAspectRatio: "none"

});

return {

span: Dt.makeSvgSpan([], [m], e),

minWidth: 0,

height: o

}

}

var u, p, d = [],

f = qe[a],

g = f[0],

x = f[1],

v = f[2],

b = v / 1e3,

y = g.length;

if (1 === y) u = ["hide-tail"], p = [f[3]];

else if (2 === y) u = ["halfarrow-left", "halfarrow-right"], p = ["xMinYMin", "xMaxYMin"];

else {

if (3 !== y) throw new Error("Correct katexImagesData or update code here to support\n " + y + " children.");

u = ["brace-left", "brace-center", "brace-right"], p = ["xMinYMin", "xMidYMin", "xMaxYMin"]

}

for (var w = 0; w < y; w++) {

var k = new H(g[w]),

S = new L([k], {

width: "400em",

height: b + "em",

viewBox: "0 0 " + r + " " + v,

preserveAspectRatio: p[w] + " slice"

}),

M = Dt.makeSvgSpan([u[w]], [S], e);

if (1 === y) return {

span: M,

minWidth: x,

height: b

};

M.style.height = b + "em", d.push(M)

}

return {

span: Dt.makeSpan(["stretchy"], d, e),

minWidth: x,

height: b

}

}(),

a = r.span,

n = r.minWidth,

i = r.height;

return a.height = i, a.style.height = i + "em", n > 0 && (a.style.minWidth = n + "em"), a

},

Ee = function (t, e) {

var r, a, n, i = Vt(t, "supsub");

i ? (r = (a = Ft(i.base, "accent")).base, i.base = r, n = function (t) {

if (t instanceof N) return t;

throw new Error("Expected span<HtmlDomNode> but got " + String(t) + ".")

}(ue(i, e)), i.base = a) : r = (a = Ft(t, "accent")).base;

var o = ue(r, e.havingCrampedStyle()),

s = 0;

if (a.isShifty && c.isCharacterBox(r)) {

var h = c.getBaseElem(r);

s = D(ue(h, e.havingCrampedStyle())).skew

}

var l, m = Math.min(o.height, e.fontMetrics().xHeight);

if (a.isStretchy) l = Oe(a, e), l = Dt.makeVList({

positionType: "firstBaseline",

children: [{

type: "elem",

elem: o

}, {

type: "elem",

elem: l,

wrapperClasses: ["svg-align"],

wrapperStyle: s > 0 ? {

width: "calc(100% - " + 2 \* s + "em)",

marginLeft: 2 \* s + "em"

} : void 0

}]

}, e);

else {

var u, p;

"\\vec" === a.label ? (u = Dt.staticSvg("vec", e), p = Dt.svgData.vec[1]) : ((u = D(u = Dt.makeOrd({

mode: a.mode,

text: a.label

}, e, "textord"))).italic = 0, p = u.width), l = Dt.makeSpan(["accent-body"], [u]);

var d = "\\textcircled" === a.label;

d && (l.classes.push("accent-full"), m = o.height);

var f = s;

d || (f -= p / 2), l.style.left = f + "em", "\\textcircled" === a.label && (l.style.top = ".2em"), l = Dt.makeVList({

positionType: "firstBaseline",

children: [{

type: "elem",

elem: o

}, {

type: "kern",

size: -m

}, {

type: "elem",

elem: l

}]

}, e)

}

var g = Dt.makeSpan(["mord", "accent"], [l], e);

return n ? (n.children[0] = g, n.height = Math.max(g.height, n.height), n.classes[0] = "mord", n) : g

},

Le = function (t, e) {

var r = t.isStretchy ? Re(t.label) : new ve.MathNode("mo", [be(t.label, t.mode)]),

a = new ve.MathNode("mover", [Me(t.base, e), r]);

return a.setAttribute("accent", "true"), a

},

He = new RegExp(["\\acute", "\\grave", "\\ddot", "\\tilde", "\\bar", "\\breve", "\\check", "\\hat", "\\vec", "\\dot", "\\mathring"].map(function (t) {

return "\\" + t

}).join("|"));

Qt({

type: "accent",

names: ["\\acute", "\\grave", "\\ddot", "\\tilde", "\\bar", "\\breve", "\\check", "\\hat", "\\vec", "\\dot", "\\mathring", "\\widecheck", "\\widehat", "\\widetilde", "\\overrightarrow", "\\overleftarrow", "\\Overrightarrow", "\\overleftrightarrow", "\\overgroup", "\\overlinesegment", "\\overleftharpoon", "\\overrightharpoon"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = e[0],

a = !He.test(t.funcName),

n = !a || "\\widehat" === t.funcName || "\\widetilde" === t.funcName || "\\widecheck" === t.funcName;

return {

type: "accent",

mode: t.parser.mode,

label: t.funcName,

isStretchy: a,

isShifty: n,

base: r

}

},

htmlBuilder: Ee,

mathmlBuilder: Le

}), Qt({

type: "accent",

names: ["\\'", "\\`", "\\^", "\\~", "\\=", "\\u", "\\.", '\\"', "\\r", "\\H", "\\v", "\\textcircled"],

props: {

numArgs: 1,

allowedInText: !0,

allowedInMath: !1

},

handler: function (t, e) {

var r = e[0];

return {

type: "accent",

mode: t.parser.mode,

label: t.funcName,

isStretchy: !1,

isShifty: !0,

base: r

}

},

htmlBuilder: Ee,

mathmlBuilder: Le

}), Qt({

type: "accentUnder",

names: ["\\underleftarrow", "\\underrightarrow", "\\underleftrightarrow", "\\undergroup", "\\underlinesegment", "\\utilde"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = t.parser,

a = t.funcName,

n = e[0];

return {

type: "accentUnder",

mode: r.mode,

label: a,

base: n

}

},

htmlBuilder: function (t, e) {

var r = ue(t.base, e),

a = Oe(t, e),

n = "\\utilde" === t.label ? .12 : 0,

i = Dt.makeVList({

positionType: "bottom",

positionData: a.height + n,

children: [{

type: "elem",

elem: a,

wrapperClasses: ["svg-align"]

}, {

type: "kern",

size: n

}, {

type: "elem",

elem: r

}]

}, e);

return Dt.makeSpan(["mord", "accentunder"], [i], e)

},

mathmlBuilder: function (t, e) {

var r = Re(t.label),

a = new ve.MathNode("munder", [Me(t.base, e), r]);

return a.setAttribute("accentunder", "true"), a

}

});

var Pe = function (t) {

var e = new ve.MathNode("mpadded", t ? [t] : []);

return e.setAttribute("width", "+0.6em"), e.setAttribute("lspace", "0.3em"), e

};

Qt({

type: "xArrow",

names: ["\\xleftarrow", "\\xrightarrow", "\\xLeftarrow", "\\xRightarrow", "\\xleftrightarrow", "\\xLeftrightarrow", "\\xhookleftarrow", "\\xhookrightarrow", "\\xmapsto", "\\xrightharpoondown", "\\xrightharpoonup", "\\xleftharpoondown", "\\xleftharpoonup", "\\xrightleftharpoons", "\\xleftrightharpoons", "\\xlongequal", "\\xtwoheadrightarrow", "\\xtwoheadleftarrow", "\\xtofrom", "\\xrightleftarrows", "\\xrightequilibrium", "\\xleftequilibrium"],

props: {

numArgs: 1,

numOptionalArgs: 1

},

handler: function (t, e, r) {

var a = t.parser,

n = t.funcName;

return {

type: "xArrow",

mode: a.mode,

label: n,

body: e[0],

below: r[0]

}

},

htmlBuilder: function (t, e) {

var r, a = e.style,

n = e.havingStyle(a.sup()),

i = Dt.wrapFragment(ue(t.body, n, e), e);

i.classes.push("x-arrow-pad"), t.below && (n = e.havingStyle(a.sub()), (r = Dt.wrapFragment(ue(t.below, n, e), e)).classes.push("x-arrow-pad"));

var o, s = Oe(t, e),

h = -e.fontMetrics().axisHeight + .5 \* s.height,

l = -e.fontMetrics().axisHeight - .5 \* s.height - .111;

if ((i.depth > .25 || "\\xleftequilibrium" === t.label) && (l -= i.depth), r) {

var m = -e.fontMetrics().axisHeight + r.height + .5 \* s.height + .111;

o = Dt.makeVList({

positionType: "individualShift",

children: [{

type: "elem",

elem: i,

shift: l

}, {

type: "elem",

elem: s,

shift: h

}, {

type: "elem",

elem: r,

shift: m

}]

}, e)

} else o = Dt.makeVList({

positionType: "individualShift",

children: [{

type: "elem",

elem: i,

shift: l

}, {

type: "elem",

elem: s,

shift: h

}]

}, e);

return o.children[0].children[0].children[1].classes.push("svg-align"), Dt.makeSpan(["mrel", "x-arrow"], [o], e)

},

mathmlBuilder: function (t, e) {

var r, a = Re(t.label);

if (t.body) {

var n = Pe(Me(t.body, e));

if (t.below) {

var i = Pe(Me(t.below, e));

r = new ve.MathNode("munderover", [a, i, n])

} else r = new ve.MathNode("mover", [a, n])

} else if (t.below) {

var o = Pe(Me(t.below, e));

r = new ve.MathNode("munder", [a, o])

} else r = Pe(), r = new ve.MathNode("mover", [a, r]);

return r

}

}), Qt({

type: "textord",

names: ["\\@char"],

props: {

numArgs: 1,

allowedInText: !0

},

handler: function (t, e) {

for (var r = t.parser, a = Ft(e[0], "ordgroup").body, n = "", i = 0; i < a.length; i++) {

n += Ft(a[i], "textord").text

}

var s = parseInt(n);

if (isNaN(s)) throw new o("\\@char has non-numeric argument " + n);

return {

type: "textord",

mode: r.mode,

text: String.fromCharCode(s)

}

}

});

var De = function (t, e) {

var r = se(t.body, e.withColor(t.color), !1);

return Dt.makeFragment(r)

},

Fe = function (t, e) {

var r = ke(t.body, e.withColor(t.color)),

a = new ve.MathNode("mstyle", r);

return a.setAttribute("mathcolor", t.color), a

};

Qt({

type: "color",

names: ["\\textcolor"],

props: {

numArgs: 2,

allowedInText: !0,

greediness: 3,

argTypes: ["color", "original"]

},

handler: function (t, e) {

var r = t.parser,

a = Ft(e[0], "color-token").color,

n = e[1];

return {

type: "color",

mode: r.mode,

color: a,

body: ee(n)

}

},

htmlBuilder: De,

mathmlBuilder: Fe

}), Qt({

type: "color",

names: ["\\color"],

props: {

numArgs: 1,

allowedInText: !0,

greediness: 3,

argTypes: ["color"]

},

handler: function (t, e) {

var r = t.parser,

a = t.breakOnTokenText,

n = Ft(e[0], "color-token").color;

r.gullet.macros.set("\\current@color", n);

var i = r.parseExpression(!0, a);

return {

type: "color",

mode: r.mode,

color: n,

body: i

}

},

htmlBuilder: De,

mathmlBuilder: Fe

}), Qt({

type: "cr",

names: ["\\cr", "\\newline"],

props: {

numArgs: 0,

numOptionalArgs: 1,

argTypes: ["size"],

allowedInText: !0

},

handler: function (t, e, r) {

var a = t.parser,

n = t.funcName,

i = r[0],

o = "\\cr" === n,

s = !1;

return o || (s = !a.settings.displayMode || !a.settings.useStrictBehavior("newLineInDisplayMode", "In LaTeX, \\\\ or \\newline does nothing in display mode")), {

type: "cr",

mode: a.mode,

newLine: s,

newRow: o,

size: i && Ft(i, "size").value

}

},

htmlBuilder: function (t, e) {

if (t.newRow) throw new o("\\cr valid only within a tabular/array environment");

var r = Dt.makeSpan(["mspace"], [], e);

return t.newLine && (r.classes.push("newline"), t.size && (r.style.marginTop = Tt(t.size, e) + "em")), r

},

mathmlBuilder: function (t, e) {

var r = new ve.MathNode("mspace");

return t.newLine && (r.setAttribute("linebreak", "newline"), t.size && r.setAttribute("height", Tt(t.size, e) + "em")), r

}

});

var Ve = function (t, e, r) {

var a = G(j.math[t] && j.math[t].replace || t, e, r);

if (!a) throw new Error("Unsupported symbol " + t + " and font size " + e + ".");

return a

},

Ue = function (t, e, r, a) {

var n = r.havingBaseStyle(e),

i = Dt.makeSpan(a.concat(n.sizingClasses(r)), [t], r),

o = n.sizeMultiplier / r.sizeMultiplier;

return i.height \*= o, i.depth \*= o, i.maxFontSize = n.sizeMultiplier, i

},

Ge = function (t, e, r) {

var a = e.havingBaseStyle(r),

n = (1 - e.sizeMultiplier / a.sizeMultiplier) \* e.fontMetrics().axisHeight;

t.classes.push("delimcenter"), t.style.top = n + "em", t.height -= n, t.depth += n

},

Ye = function (t, e, r, a, n, i) {

var o = function (t, e, r, a) {

return Dt.makeSymbol(t, "Size" + e + "-Regular", r, a)

}(t, e, n, a),

s = Ue(Dt.makeSpan(["delimsizing", "size" + e], [o], a), w.TEXT, a, i);

return r && Ge(s, a, w.TEXT), s

},

We = function (t, e, r) {

var a;

return a = "Size1-Regular" === e ? "delim-size1" : "delim-size4", {

type: "elem",

elem: Dt.makeSpan(["delimsizinginner", a], [Dt.makeSpan([], [Dt.makeSymbol(t, e, r)])])

}

},

Xe = {

type: "kern",

size: -.005

},

\_e = function (t, e, r, a, n, i) {

var o, s, h, l;

o = h = l = t, s = null;

var m = "Size1-Regular";

"\\uparrow" === t ? h = l = "\u23d0" : "\\Uparrow" === t ? h = l = "\u2016" : "\\downarrow" === t ? o = h = "\u23d0" : "\\Downarrow" === t ? o = h = "\u2016" : "\\updownarrow" === t ? (o = "\\uparrow", h = "\u23d0", l = "\\downarrow") : "\\Updownarrow" === t ? (o = "\\Uparrow", h = "\u2016", l = "\\Downarrow") : "[" === t || "\\lbrack" === t ? (o = "\u23a1", h = "\u23a2", l = "\u23a3", m = "Size4-Regular") : "]" === t || "\\rbrack" === t ? (o = "\u23a4", h = "\u23a5", l = "\u23a6", m = "Size4-Regular") : "\\lfloor" === t || "\u230a" === t ? (h = o = "\u23a2", l = "\u23a3", m = "Size4-Regular") : "\\lceil" === t || "\u2308" === t ? (o = "\u23a1", h = l = "\u23a2", m = "Size4-Regular") : "\\rfloor" === t || "\u230b" === t ? (h = o = "\u23a5", l = "\u23a6", m = "Size4-Regular") : "\\rceil" === t || "\u2309" === t ? (o = "\u23a4", h = l = "\u23a5", m = "Size4-Regular") : "(" === t || "\\lparen" === t ? (o = "\u239b", h = "\u239c", l = "\u239d", m = "Size4-Regular") : ")" === t || "\\rparen" === t ? (o = "\u239e", h = "\u239f", l = "\u23a0", m = "Size4-Regular") : "\\{" === t || "\\lbrace" === t ? (o = "\u23a7", s = "\u23a8", l = "\u23a9", h = "\u23aa", m = "Size4-Regular") : "\\}" === t || "\\rbrace" === t ? (o = "\u23ab", s = "\u23ac", l = "\u23ad", h = "\u23aa", m = "Size4-Regular") : "\\lgroup" === t || "\u27ee" === t ? (o = "\u23a7", l = "\u23a9", h = "\u23aa", m = "Size4-Regular") : "\\rgroup" === t || "\u27ef" === t ? (o = "\u23ab", l = "\u23ad", h = "\u23aa", m = "Size4-Regular") : "\\lmoustache" === t || "\u23b0" === t ? (o = "\u23a7", l = "\u23ad", h = "\u23aa", m = "Size4-Regular") : "\\rmoustache" !== t && "\u23b1" !== t || (o = "\u23ab", l = "\u23a9", h = "\u23aa", m = "Size4-Regular");

var c = Ve(o, m, n),

u = c.height + c.depth,

p = Ve(h, m, n),

d = p.height + p.depth,

f = Ve(l, m, n),

g = f.height + f.depth,

x = 0,

v = 1;

if (null !== s) {

var b = Ve(s, m, n);

x = b.height + b.depth, v = 2

}

var y = u + g + x,

k = Math.max(0, Math.ceil((e - y) / (v \* d))),

S = y + k \* v \* d,

M = a.fontMetrics().axisHeight;

r && (M \*= a.sizeMultiplier);

var z = S / 2 - M,

A = .005 \* (k + 1) - d,

T = [];

if (T.push(We(l, m, n)), null === s)

for (var B = 0; B < k; B++) T.push(Xe), T.push(We(h, m, n));

else {

for (var C = 0; C < k; C++) T.push(Xe), T.push(We(h, m, n));

T.push({

type: "kern",

size: A

}), T.push(We(h, m, n)), T.push(Xe), T.push(We(s, m, n));

for (var q = 0; q < k; q++) T.push(Xe), T.push(We(h, m, n))

}

T.push({

type: "kern",

size: A

}), T.push(We(h, m, n)), T.push(Xe), T.push(We(o, m, n));

var N = a.havingBaseStyle(w.TEXT),

I = Dt.makeVList({

positionType: "bottom",

positionData: z,

children: T

}, N);

return Ue(Dt.makeSpan(["delimsizing", "mult"], [I], N), w.TEXT, a, i)

},

je = function (t, e, r, a, n) {

var i = function (t, e, r) {

e \*= 1e3;

var a = "";

switch (t) {

case "sqrtMain":

a = function (t, e) {

return "M95," + (622 + t + e) + "\nc-2.7,0,-7.17,-2.7,-13.5,-8c-5.8,-5.3,-9.5,-10,-9.5,-14\nc0,-2,0.3,-3.3,1,-4c1.3,-2.7,23.83,-20.7,67.5,-54\nc44.2,-33.3,65.8,-50.3,66.5,-51c1.3,-1.3,3,-2,5,-2c4.7,0,8.7,3.3,12,10\ns173,378,173,378c0.7,0,35.3,-71,104,-213c68.7,-142,137.5,-285,206.5,-429\nc69,-144,104.5,-217.7,106.5,-221\nl" + t / 2.075 + " -" + t + "\nc5.3,-9.3,12,-14,20,-14\nH400000v" + (40 + t) + "H845.2724\ns-225.272,467,-225.272,467s-235,486,-235,486c-2.7,4.7,-9,7,-19,7\nc-6,0,-10,-1,-12,-3s-194,-422,-194,-422s-65,47,-65,47z\nM" + (834 + t) + " " + e + "h400000v" + (40 + t) + "h-400000z"

}(e, 80);

break;

case "sqrtSize1":

a = function (t, e) {

return "M263," + (601 + t + e) + "c0.7,0,18,39.7,52,119\nc34,79.3,68.167,158.7,102.5,238c34.3,79.3,51.8,119.3,52.5,120\nc340,-704.7,510.7,-1060.3,512,-1067\nl" + t / 2.084 + " -" + t + "\nc4.7,-7.3,11,-11,19,-11\nH40000v" + (40 + t) + "H1012.3\ns-271.3,567,-271.3,567c-38.7,80.7,-84,175,-136,283c-52,108,-89.167,185.3,-111.5,232\nc-22.3,46.7,-33.8,70.3,-34.5,71c-4.7,4.7,-12.3,7,-23,7s-12,-1,-12,-1\ns-109,-253,-109,-253c-72.7,-168,-109.3,-252,-110,-252c-10.7,8,-22,16.7,-34,26\nc-22,17.3,-33.3,26,-34,26s-26,-26,-26,-26s76,-59,76,-59s76,-60,76,-60z\nM" + (1001 + t) + " " + e + "h400000v" + (40 + t) + "h-400000z"

}(e, 80);

break;

case "sqrtSize2":

a = function (t, e) {

return "M983 " + (10 + t + e) + "\nl" + t / 3.13 + " -" + t + "\nc4,-6.7,10,-10,18,-10 H400000v" + (40 + t) + "\nH1013.1s-83.4,268,-264.1,840c-180.7,572,-277,876.3,-289,913c-4.7,4.7,-12.7,7,-24,7\ns-12,0,-12,0c-1.3,-3.3,-3.7,-11.7,-7,-25c-35.3,-125.3,-106.7,-373.3,-214,-744\nc-10,12,-21,25,-33,39s-32,39,-32,39c-6,-5.3,-15,-14,-27,-26s25,-30,25,-30\nc26.7,-32.7,52,-63,76,-91s52,-60,52,-60s208,722,208,722\nc56,-175.3,126.3,-397.3,211,-666c84.7,-268.7,153.8,-488.2,207.5,-658.5\nc53.7,-170.3,84.5,-266.8,92.5,-289.5z\nM" + (1001 + t) + " " + e + "h400000v" + (40 + t) + "h-400000z"

}(e, 80);

break;

case "sqrtSize3":

a = function (t, e) {

return "M424," + (2398 + t + e) + "\nc-1.3,-0.7,-38.5,-172,-111.5,-514c-73,-342,-109.8,-513.3,-110.5,-514\nc0,-2,-10.7,14.3,-32,49c-4.7,7.3,-9.8,15.7,-15.5,25c-5.7,9.3,-9.8,16,-12.5,20\ns-5,7,-5,7c-4,-3.3,-8.3,-7.7,-13,-13s-13,-13,-13,-13s76,-122,76,-122s77,-121,77,-121\ns209,968,209,968c0,-2,84.7,-361.7,254,-1079c169.3,-717.3,254.7,-1077.7,256,-1081\nl" + t / 4.223 + " -" + t + "c4,-6.7,10,-10,18,-10 H400000\nv" + (40 + t) + "H1014.6\ns-87.3,378.7,-272.6,1166c-185.3,787.3,-279.3,1182.3,-282,1185\nc-2,6,-10,9,-24,9\nc-8,0,-12,-0.7,-12,-2z M" + (1001 + t) + " " + e + "\nh400000v" + (40 + t) + "h-400000z"

}(e, 80);

break;

case "sqrtSize4":

a = function (t, e) {

return "M473," + (2713 + t + e) + "\nc339.3,-1799.3,509.3,-2700,510,-2702 l" + t / 5.298 + " -" + t + "\nc3.3,-7.3,9.3,-11,18,-11 H400000v" + (40 + t) + "H1017.7\ns-90.5,478,-276.2,1466c-185.7,988,-279.5,1483,-281.5,1485c-2,6,-10,9,-24,9\nc-8,0,-12,-0.7,-12,-2c0,-1.3,-5.3,-32,-16,-92c-50.7,-293.3,-119.7,-693.3,-207,-1200\nc0,-1.3,-5.3,8.7,-16,30c-10.7,21.3,-21.3,42.7,-32,64s-16,33,-16,33s-26,-26,-26,-26\ns76,-153,76,-153s77,-151,77,-151c0.7,0.7,35.7,202,105,604c67.3,400.7,102,602.7,104,\n606zM" + (1001 + t) + " " + e + "h400000v" + (40 + t) + "H1017.7z"

}(e, 80);

break;

case "sqrtTall":

a = function (t, e, r) {

return "M702 " + (t + e) + "H400000" + (40 + t) + "\nH742v" + (r - 54 - e - t) + "l-4 4-4 4c-.667.7 -2 1.5-4 2.5s-4.167 1.833-6.5 2.5-5.5 1-9.5 1\nh-12l-28-84c-16.667-52-96.667 -294.333-240-727l-212 -643 -85 170\nc-4-3.333-8.333-7.667-13 -13l-13-13l77-155 77-156c66 199.333 139 419.667\n219 661 l218 661zM702 " + e + "H400000v" + (40 + t) + "H742z"

}(e, 80, r)

}

return a

}(t, a, r),

o = new H(t, i),

s = new L([o], {

width: "400em",

height: e + "em",

viewBox: "0 0 400000 " + r,

preserveAspectRatio: "xMinYMin slice"

});

return Dt.makeSvgSpan(["hide-tail"], [s], n)

},

$e = ["(", "\\lparen", ")", "\\rparen", "[", "\\lbrack", "]", "\\rbrack", "\\{", "\\lbrace", "\\}", "\\rbrace", "\\lfloor", "\\rfloor", "\u230a", "\u230b", "\\lceil", "\\rceil", "\u2308", "\u2309", "\\surd"],

Ze = ["\\uparrow", "\\downarrow", "\\updownarrow", "\\Uparrow", "\\Downarrow", "\\Updownarrow", "|", "\\|", "\\vert", "\\Vert", "\\lvert", "\\rvert", "\\lVert", "\\rVert", "\\lgroup", "\\rgroup", "\u27ee", "\u27ef", "\\lmoustache", "\\rmoustache", "\u23b0", "\u23b1"],

Ke = ["<", ">", "\\langle", "\\rangle", "/", "\\backslash", "\\lt", "\\gt"],

Je = [0, 1.2, 1.8, 2.4, 3],

Qe = [{

type: "small",

style: w.SCRIPTSCRIPT

}, {

type: "small",

style: w.SCRIPT

}, {

type: "small",

style: w.TEXT

}, {

type: "large",

size: 1

}, {

type: "large",

size: 2

}, {

type: "large",

size: 3

}, {

type: "large",

size: 4

}],

tr = [{

type: "small",

style: w.SCRIPTSCRIPT

}, {

type: "small",

style: w.SCRIPT

}, {

type: "small",

style: w.TEXT

}, {

type: "stack"

}],

er = [{

type: "small",

style: w.SCRIPTSCRIPT

}, {

type: "small",

style: w.SCRIPT

}, {

type: "small",

style: w.TEXT

}, {

type: "large",

size: 1

}, {

type: "large",

size: 2

}, {

type: "large",

size: 3

}, {

type: "large",

size: 4

}, {

type: "stack"

}],

rr = function (t) {

if ("small" === t.type) return "Main-Regular";

if ("large" === t.type) return "Size" + t.size + "-Regular";

if ("stack" === t.type) return "Size4-Regular";

throw new Error("Add support for delim type '" + t.type + "' here.")

},

ar = function (t, e, r, a) {

for (var n = Math.min(2, 3 - a.style.size); n < r.length && "stack" !== r[n].type; n++) {

var i = Ve(t, rr(r[n]), "math"),

o = i.height + i.depth;

if ("small" === r[n].type && (o \*= a.havingBaseStyle(r[n].style).sizeMultiplier), o > e) return r[n]

}

return r[r.length - 1]

},

nr = function (t, e, r, a, n, i) {

var o;

"<" === t || "\\lt" === t || "\u27e8" === t ? t = "\\langle" : ">" !== t && "\\gt" !== t && "\u27e9" !== t || (t = "\\rangle"), o = c.contains(Ke, t) ? Qe : c.contains($e, t) ? er : tr;

var s = ar(t, e, o, a);

return "small" === s.type ? function (t, e, r, a, n, i) {

var o = Dt.makeSymbol(t, "Main-Regular", n, a),

s = Ue(o, e, a, i);

return r && Ge(s, a, e), s

}(t, s.style, r, a, n, i) : "large" === s.type ? Ye(t, s.size, r, a, n, i) : \_e(t, e, r, a, n, i)

},

ir = function (t, e) {

var r, a, n = e.havingBaseSizing(),

i = ar("\\surd", t \* n.sizeMultiplier, er, n),

o = n.sizeMultiplier,

s = Math.max(0, e.minRuleThickness - e.fontMetrics().sqrtRuleThickness),

h = 0,

l = 0,

m = 0;

return "small" === i.type ? (t < 1 ? o = 1 : t < 1.4 && (o = .7), l = (1 + s) / o, (r = je("sqrtMain", h = (1 + s + .08) / o, m = 1e3 + 1e3 \* s + 80, s, e)).style.minWidth = "0.853em", a = .833 / o) : "large" === i.type ? (m = 1080 \* Je[i.size], l = (Je[i.size] + s) / o, h = (Je[i.size] + s + .08) / o, (r = je("sqrtSize" + i.size, h, m, s, e)).style.minWidth = "1.02em", a = 1 / o) : (h = t + s + .08, l = t + s, m = Math.floor(1e3 \* t + s) + 80, (r = je("sqrtTall", h, m, s, e)).style.minWidth = "0.742em", a = 1.056), r.height = l, r.style.height = h + "em", {

span: r,

advanceWidth: a,

ruleWidth: (e.fontMetrics().sqrtRuleThickness + s) \* o

}

},

or = function (t, e, r, a, n) {

if ("<" === t || "\\lt" === t || "\u27e8" === t ? t = "\\langle" : ">" !== t && "\\gt" !== t && "\u27e9" !== t || (t = "\\rangle"), c.contains($e, t) || c.contains(Ke, t)) return Ye(t, e, !1, r, a, n);

if (c.contains(Ze, t)) return \_e(t, Je[e], !1, r, a, n);

throw new o("Illegal delimiter: '" + t + "'")

},

sr = nr,

hr = function (t, e, r, a, n, i) {

var o = a.fontMetrics().axisHeight \* a.sizeMultiplier,

s = 5 / a.fontMetrics().ptPerEm,

h = Math.max(e - o, r + o),

l = Math.max(h / 500 \* 901, 2 \* h - s);

return nr(t, l, !0, a, n, i)

},

lr = {

"\\bigl": {

mclass: "mopen",

size: 1

},

"\\Bigl": {

mclass: "mopen",

size: 2

},

"\\biggl": {

mclass: "mopen",

size: 3

},

"\\Biggl": {

mclass: "mopen",

size: 4

},

"\\bigr": {

mclass: "mclose",

size: 1

},

"\\Bigr": {

mclass: "mclose",

size: 2

},

"\\biggr": {

mclass: "mclose",

size: 3

},

"\\Biggr": {

mclass: "mclose",

size: 4

},

"\\bigm": {

mclass: "mrel",

size: 1

},

"\\Bigm": {

mclass: "mrel",

size: 2

},

"\\biggm": {

mclass: "mrel",

size: 3

},

"\\Biggm": {

mclass: "mrel",

size: 4

},

"\\big": {

mclass: "mord",

size: 1

},

"\\Big": {

mclass: "mord",

size: 2

},

"\\bigg": {

mclass: "mord",

size: 3

},

"\\Bigg": {

mclass: "mord",

size: 4

}

},

mr = ["(", "\\lparen", ")", "\\rparen", "[", "\\lbrack", "]", "\\rbrack", "\\{", "\\lbrace", "\\}", "\\rbrace", "\\lfloor", "\\rfloor", "\u230a", "\u230b", "\\lceil", "\\rceil", "\u2308", "\u2309", "<", ">", "\\langle", "\u27e8", "\\rangle", "\u27e9", "\\lt", "\\gt", "\\lvert", "\\rvert", "\\lVert", "\\rVert", "\\lgroup", "\\rgroup", "\u27ee", "\u27ef", "\\lmoustache", "\\rmoustache", "\u23b0", "\u23b1", "/", "\\backslash", "|", "\\vert", "\\|", "\\Vert", "\\uparrow", "\\Uparrow", "\\downarrow", "\\Downarrow", "\\updownarrow", "\\Updownarrow", "."];

function cr(t, e) {

var r = Yt(t);

if (r && c.contains(mr, r.text)) return r;

throw new o("Invalid delimiter: '" + (r ? r.text : JSON.stringify(t)) + "' after '" + e.funcName + "'", t)

}

function ur(t) {

if (!t.body) throw new Error("Bug: The leftright ParseNode wasn't fully parsed.")

}

Qt({

type: "delimsizing",

names: ["\\bigl", "\\Bigl", "\\biggl", "\\Biggl", "\\bigr", "\\Bigr", "\\biggr", "\\Biggr", "\\bigm", "\\Bigm", "\\biggm", "\\Biggm", "\\big", "\\Big", "\\bigg", "\\Bigg"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = cr(e[0], t);

return {

type: "delimsizing",

mode: t.parser.mode,

size: lr[t.funcName].size,

mclass: lr[t.funcName].mclass,

delim: r.text

}

},

htmlBuilder: function (t, e) {

return "." === t.delim ? Dt.makeSpan([t.mclass]) : or(t.delim, t.size, e, t.mode, [t.mclass])

},

mathmlBuilder: function (t) {

var e = [];

"." !== t.delim && e.push(be(t.delim, t.mode));

var r = new ve.MathNode("mo", e);

return "mopen" === t.mclass || "mclose" === t.mclass ? r.setAttribute("fence", "true") : r.setAttribute("fence", "false"), r

}

}), Qt({

type: "leftright-right",

names: ["\\right"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = t.parser.gullet.macros.get("\\current@color");

if (r && "string" != typeof r) throw new o("\\current@color set to non-string in \\right");

return {

type: "leftright-right",

mode: t.parser.mode,

delim: cr(e[0], t).text,

color: r

}

}

}), Qt({

type: "leftright",

names: ["\\left"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = cr(e[0], t),

a = t.parser;

++a.leftrightDepth;

var n = a.parseExpression(!1);

--a.leftrightDepth, a.expect("\\right", !1);

var i = Ft(a.parseFunction(), "leftright-right");

return {

type: "leftright",

mode: a.mode,

body: n,

left: r.text,

right: i.delim,

rightColor: i.color

}

},

htmlBuilder: function (t, e) {

ur(t);

for (var r, a, n = se(t.body, e, !0, ["mopen", "mclose"]), i = 0, o = 0, s = !1, h = 0; h < n.length; h++) n[h].isMiddle ? s = !0 : (i = Math.max(n[h].height, i), o = Math.max(n[h].depth, o));

if (i \*= e.sizeMultiplier, o \*= e.sizeMultiplier, r = "." === t.left ? ce(e, ["mopen"]) : hr(t.left, i, o, e, t.mode, ["mopen"]), n.unshift(r), s)

for (var l = 1; l < n.length; l++) {

var m = n[l].isMiddle;

m && (n[l] = hr(m.delim, i, o, m.options, t.mode, []))

}

if ("." === t.right) a = ce(e, ["mclose"]);

else {

var c = t.rightColor ? e.withColor(t.rightColor) : e;

a = hr(t.right, i, o, c, t.mode, ["mclose"])

}

return n.push(a), Dt.makeSpan(["minner"], n, e)

},

mathmlBuilder: function (t, e) {

ur(t);

var r = ke(t.body, e);

if ("." !== t.left) {

var a = new ve.MathNode("mo", [be(t.left, t.mode)]);

a.setAttribute("fence", "true"), r.unshift(a)

}

if ("." !== t.right) {

var n = new ve.MathNode("mo", [be(t.right, t.mode)]);

n.setAttribute("fence", "true"), t.rightColor && n.setAttribute("mathcolor", t.rightColor), r.push(n)

}

return ye(r)

}

}), Qt({

type: "middle",

names: ["\\middle"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = cr(e[0], t);

if (!t.parser.leftrightDepth) throw new o("\\middle without preceding \\left", r);

return {

type: "middle",

mode: t.parser.mode,

delim: r.text

}

},

htmlBuilder: function (t, e) {

var r;

if ("." === t.delim) r = ce(e, []);

else {

r = or(t.delim, 1, e, t.mode, []);

var a = {

delim: t.delim,

options: e

};

r.isMiddle = a

}

return r

},

mathmlBuilder: function (t, e) {

var r = "\\vert" === t.delim || "|" === t.delim ? be("|", "text") : be(t.delim, t.mode),

a = new ve.MathNode("mo", [r]);

return a.setAttribute("fence", "true"), a.setAttribute("lspace", "0.05em"), a.setAttribute("rspace", "0.05em"), a

}

});

var pr = function (t, e) {

var r, a, n = Dt.wrapFragment(ue(t.body, e), e),

i = t.label.substr(1),

o = e.sizeMultiplier,

s = 0,

h = c.isCharacterBox(t.body);

if ("sout" === i)(r = Dt.makeSpan(["stretchy", "sout"])).height = e.fontMetrics().defaultRuleThickness / o, s = -.5 \* e.fontMetrics().xHeight;

else {

/cancel/.test(i) ? h || n.classes.push("cancel-pad") : n.classes.push("boxpad");

var l = 0,

m = 0;

/box/.test(i) ? (m = Math.max(e.fontMetrics().fboxrule, e.minRuleThickness), l = e.fontMetrics().fboxsep + ("colorbox" === i ? 0 : m)) : l = h ? .2 : 0, r = Ie(n, i, l, e), /fbox|boxed|fcolorbox/.test(i) && (r.style.borderStyle = "solid", r.style.borderWidth = m + "em"), s = n.depth + l, t.backgroundColor && (r.style.backgroundColor = t.backgroundColor, t.borderColor && (r.style.borderColor = t.borderColor))

}

return a = t.backgroundColor ? Dt.makeVList({

positionType: "individualShift",

children: [{

type: "elem",

elem: r,

shift: s

}, {

type: "elem",

elem: n,

shift: 0

}]

}, e) : Dt.makeVList({

positionType: "individualShift",

children: [{

type: "elem",

elem: n,

shift: 0

}, {

type: "elem",

elem: r,

shift: s,

wrapperClasses: /cancel/.test(i) ? ["svg-align"] : []

}]

}, e), /cancel/.test(i) && (a.height = n.height, a.depth = n.depth), /cancel/.test(i) && !h ? Dt.makeSpan(["mord", "cancel-lap"], [a], e) : Dt.makeSpan(["mord"], [a], e)

},

dr = function (t, e) {

var r = 0,

a = new ve.MathNode(t.label.indexOf("colorbox") > -1 ? "mpadded" : "menclose", [Me(t.body, e)]);

switch (t.label) {

case "\\cancel":

a.setAttribute("notation", "updiagonalstrike");

break;

case "\\bcancel":

a.setAttribute("notation", "downdiagonalstrike");

break;

case "\\sout":

a.setAttribute("notation", "horizontalstrike");

break;

case "\\fbox":

a.setAttribute("notation", "box");

break;

case "\\fcolorbox":

case "\\colorbox":

if (r = e.fontMetrics().fboxsep \* e.fontMetrics().ptPerEm, a.setAttribute("width", "+" + 2 \* r + "pt"), a.setAttribute("height", "+" + 2 \* r + "pt"), a.setAttribute("lspace", r + "pt"), a.setAttribute("voffset", r + "pt"), "\\fcolorbox" === t.label) {

var n = Math.max(e.fontMetrics().fboxrule, e.minRuleThickness);

a.setAttribute("style", "border: " + n + "em solid " + String(t.borderColor))

}

break;

case "\\xcancel":

a.setAttribute("notation", "updiagonalstrike downdiagonalstrike")

}

return t.backgroundColor && a.setAttribute("mathbackground", t.backgroundColor), a

};

Qt({

type: "enclose",

names: ["\\colorbox"],

props: {

numArgs: 2,

allowedInText: !0,

greediness: 3,

argTypes: ["color", "text"]

},

handler: function (t, e, r) {

var a = t.parser,

n = t.funcName,

i = Ft(e[0], "color-token").color,

o = e[1];

return {

type: "enclose",

mode: a.mode,

label: n,

backgroundColor: i,

body: o

}

},

htmlBuilder: pr,

mathmlBuilder: dr

}), Qt({

type: "enclose",

names: ["\\fcolorbox"],

props: {

numArgs: 3,

allowedInText: !0,

greediness: 3,

argTypes: ["color", "color", "text"]

},

handler: function (t, e, r) {

var a = t.parser,

n = t.funcName,

i = Ft(e[0], "color-token").color,

o = Ft(e[1], "color-token").color,

s = e[2];

return {

type: "enclose",

mode: a.mode,

label: n,

backgroundColor: o,

borderColor: i,

body: s

}

},

htmlBuilder: pr,

mathmlBuilder: dr

}), Qt({

type: "enclose",

names: ["\\fbox"],

props: {

numArgs: 1,

argTypes: ["hbox"],

allowedInText: !0

},

handler: function (t, e) {

return {

type: "enclose",

mode: t.parser.mode,

label: "\\fbox",

body: e[0]

}

}

}), Qt({

type: "enclose",

names: ["\\cancel", "\\bcancel", "\\xcancel", "\\sout"],

props: {

numArgs: 1

},

handler: function (t, e, r) {

var a = t.parser,

n = t.funcName,

i = e[0];

return {

type: "enclose",

mode: a.mode,

label: n,

body: i

}

},

htmlBuilder: pr,

mathmlBuilder: dr

});

var fr = {};

function gr(t) {

for (var e = t.type, r = t.names, a = t.props, n = t.handler, i = t.htmlBuilder, o = t.mathmlBuilder, s = {

type: e,

numArgs: a.numArgs || 0,

greediness: 1,

allowedInText: !1,

numOptionalArgs: 0,

handler: n

}, h = 0; h < r.length; ++h) fr[r[h]] = s;

i && (Kt[e] = i), o && (Jt[e] = o)

}

function xr(t) {

var e = [];

t.consumeSpaces();

for (var r = t.fetch().text;

"\\hline" === r || "\\hdashline" === r;) t.consume(), e.push("\\hdashline" === r), t.consumeSpaces(), r = t.fetch().text;

return e

}

function vr(t, e, r) {

var a = e.hskipBeforeAndAfter,

n = e.addJot,

i = e.cols,

s = e.arraystretch,

h = e.colSeparationType;

if (t.gullet.beginGroup(), t.gullet.macros.set("\\\\", "\\cr"), !s) {

var l = t.gullet.expandMacroAsText("\\arraystretch");

if (null == l) s = 1;

else if (!(s = parseFloat(l)) || s < 0) throw new o("Invalid \\arraystretch: " + l)

}

t.gullet.beginGroup();

var m = [],

c = [m],

u = [],

p = [];

for (p.push(xr(t));;) {

var d = t.parseExpression(!1, "\\cr");

t.gullet.endGroup(), t.gullet.beginGroup(), d = {

type: "ordgroup",

mode: t.mode,

body: d

}, r && (d = {

type: "styling",

mode: t.mode,

style: r,

body: [d]

}), m.push(d);

var f = t.fetch().text;

if ("&" === f) t.consume();

else {

if ("\\end" === f) {

1 === m.length && "styling" === d.type && 0 === d.body[0].body.length && c.pop(), p.length < c.length + 1 && p.push([]);

break

}

if ("\\cr" !== f) throw new o("Expected & or \\\\ or \\cr or \\end", t.nextToken);

var g = Ft(t.parseFunction(), "cr");

u.push(g.size), p.push(xr(t)), m = [], c.push(m)

}

}

return t.gullet.endGroup(), t.gullet.endGroup(), {

type: "array",

mode: t.mode,

addJot: n,

arraystretch: s,

body: c,

cols: i,

rowGaps: u,

hskipBeforeAndAfter: a,

hLinesBeforeRow: p,

colSeparationType: h

}

}

function br(t) {

return "d" === t.substr(0, 1) ? "display" : "text"

}

var yr = function (t, e) {

var r, a, n = t.body.length,

i = t.hLinesBeforeRow,

s = 0,

h = new Array(n),

l = [],

m = Math.max(e.fontMetrics().arrayRuleWidth, e.minRuleThickness),

u = 1 / e.fontMetrics().ptPerEm,

p = 5 \* u;

t.colSeparationType && "small" === t.colSeparationType && (p = e.havingStyle(w.SCRIPT).sizeMultiplier / e.sizeMultiplier \* .2778);

var d = 12 \* u,

f = 3 \* u,

g = t.arraystretch \* d,

x = .7 \* g,

v = .3 \* g,

b = 0;

function y(t) {

for (var e = 0; e < t.length; ++e) e > 0 && (b += .25), l.push({

pos: b,

isDashed: t[e]

})

}

for (y(i[0]), r = 0; r < t.body.length; ++r) {

var k = t.body[r],

S = x,

M = v;

s < k.length && (s = k.length);

var z = new Array(k.length);

for (a = 0; a < k.length; ++a) {

var A = ue(k[a], e);

M < A.depth && (M = A.depth), S < A.height && (S = A.height), z[a] = A

}

var T = t.rowGaps[r],

B = 0;

T && (B = Tt(T, e)) > 0 && (M < (B += v) && (M = B), B = 0), t.addJot && (M += f), z.height = S, z.depth = M, b += S, z.pos = b, b += M + B, h[r] = z, y(i[r + 1])

}

var C, q, N = b / 2 + e.fontMetrics().axisHeight,

I = t.cols || [],

R = [];

for (a = 0, q = 0; a < s || q < I.length; ++a, ++q) {

for (var O = I[q] || {}, E = !0;

"separator" === O.type;) {

if (E || ((C = Dt.makeSpan(["arraycolsep"], [])).style.width = e.fontMetrics().doubleRuleSep + "em", R.push(C)), "|" !== O.separator && ":" !== O.separator) throw new o("Invalid separator type: " + O.separator);

var L = "|" === O.separator ? "solid" : "dashed",

H = Dt.makeSpan(["vertical-separator"], [], e);

H.style.height = b + "em", H.style.borderRightWidth = m + "em", H.style.borderRightStyle = L, H.style.margin = "0 -" + m / 2 + "em", H.style.verticalAlign = -(b - N) + "em", R.push(H), O = I[++q] || {}, E = !1

}

if (!(a >= s)) {

var P = void 0;

(a > 0 || t.hskipBeforeAndAfter) && 0 !== (P = c.deflt(O.pregap, p)) && ((C = Dt.makeSpan(["arraycolsep"], [])).style.width = P + "em", R.push(C));

var D = [];

for (r = 0; r < n; ++r) {

var F = h[r],

V = F[a];

if (V) {

var U = F.pos - N;

V.depth = F.depth, V.height = F.height, D.push({

type: "elem",

elem: V,

shift: U

})

}

}

D = Dt.makeVList({

positionType: "individualShift",

children: D

}, e), D = Dt.makeSpan(["col-align-" + (O.align || "c")], [D]), R.push(D), (a < s - 1 || t.hskipBeforeAndAfter) && 0 !== (P = c.deflt(O.postgap, p)) && ((C = Dt.makeSpan(["arraycolsep"], [])).style.width = P + "em", R.push(C))

}

}

if (h = Dt.makeSpan(["mtable"], R), l.length > 0) {

for (var G = Dt.makeLineSpan("hline", e, m), Y = Dt.makeLineSpan("hdashline", e, m), W = [{

type: "elem",

elem: h,

shift: 0

}]; l.length > 0;) {

var X = l.pop(),

\_ = X.pos - N;

X.isDashed ? W.push({

type: "elem",

elem: Y,

shift: \_

}) : W.push({

type: "elem",

elem: G,

shift: \_

})

}

h = Dt.makeVList({

positionType: "individualShift",

children: W

}, e)

}

return Dt.makeSpan(["mord"], [h], e)

},

wr = {

c: "center ",

l: "left ",

r: "right "

},

kr = function (t, e) {

var r = new ve.MathNode("mtable", t.body.map(function (t) {

return new ve.MathNode("mtr", t.map(function (t) {

return new ve.MathNode("mtd", [Me(t, e)])

}))

})),

a = .5 === t.arraystretch ? .1 : .16 + t.arraystretch - 1 + (t.addJot ? .09 : 0);

r.setAttribute("rowspacing", a + "em");

var n = "",

i = "";

if (t.cols) {

var o = t.cols,

s = "",

h = !1,

l = 0,

m = o.length;

"separator" === o[0].type && (n += "top ", l = 1), "separator" === o[o.length - 1].type && (n += "bottom ", m -= 1);

for (var c = l; c < m; c++) "align" === o[c].type ? (i += wr[o[c].align], h && (s += "none "), h = !0) : "separator" === o[c].type && h && (s += "|" === o[c].separator ? "solid " : "dashed ", h = !1);

r.setAttribute("columnalign", i.trim()), /[sd]/.test(s) && r.setAttribute("columnlines", s.trim())

}

if ("align" === t.colSeparationType) {

for (var u = t.cols || [], p = "", d = 1; d < u.length; d++) p += d % 2 ? "0em " : "1em ";

r.setAttribute("columnspacing", p.trim())

} else "alignat" === t.colSeparationType ? r.setAttribute("columnspacing", "0em") : "small" === t.colSeparationType ? r.setAttribute("columnspacing", "0.2778em") : r.setAttribute("columnspacing", "1em");

var f = "",

g = t.hLinesBeforeRow;

n += g[0].length > 0 ? "left " : "", n += g[g.length - 1].length > 0 ? "right " : "";

for (var x = 1; x < g.length - 1; x++) f += 0 === g[x].length ? "none " : g[x][0] ? "dashed " : "solid ";

return /[sd]/.test(f) && r.setAttribute("rowlines", f.trim()), "" !== n && (r = new ve.MathNode("menclose", [r])).setAttribute("notation", n.trim()), t.arraystretch && t.arraystretch < 1 && (r = new ve.MathNode("mstyle", [r])).setAttribute("scriptlevel", "1"), r

},

Sr = function (t, e) {

var r, a = [],

n = vr(t.parser, {

cols: a,

addJot: !0

}, "display"),

i = 0,

s = {

type: "ordgroup",

mode: t.mode,

body: []

},

h = Vt(e[0], "ordgroup");

if (h) {

for (var l = "", m = 0; m < h.body.length; m++) {

l += Ft(h.body[m], "textord").text

}

r = Number(l), i = 2 \* r

}

var c = !i;

n.body.forEach(function (t) {

for (var e = 1; e < t.length; e += 2) {

var a = Ft(t[e], "styling");

Ft(a.body[0], "ordgroup").body.unshift(s)

}

if (c) i < t.length && (i = t.length);

else {

var n = t.length / 2;

if (r < n) throw new o("Too many math in a row: expected " + r + ", but got " + n, t[0])

}

});

for (var u = 0; u < i; ++u) {

var p = "r",

d = 0;

u % 2 == 1 ? p = "l" : u > 0 && c && (d = 1), a[u] = {

type: "align",

align: p,

pregap: d,

postgap: 0

}

}

return n.colSeparationType = c ? "align" : "alignat", n

};

gr({

type: "array",

names: ["array", "darray"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = {

cols: (Yt(e[0]) ? [e[0]] : Ft(e[0], "ordgroup").body).map(function (t) {

var e = Gt(t).text;

if (-1 !== "lcr".indexOf(e)) return {

type: "align",

align: e

};

if ("|" === e) return {

type: "separator",

separator: "|"

};

if (":" === e) return {

type: "separator",

separator: ":"

};

throw new o("Unknown column alignment: " + e, t)

}),

hskipBeforeAndAfter: !0

};

return vr(t.parser, r, br(t.envName))

},

htmlBuilder: yr,

mathmlBuilder: kr

}), gr({

type: "array",

names: ["matrix", "pmatrix", "bmatrix", "Bmatrix", "vmatrix", "Vmatrix"],

props: {

numArgs: 0

},

handler: function (t) {

var e = {

matrix: null,

pmatrix: ["(", ")"],

bmatrix: ["[", "]"],

Bmatrix: ["\\{", "\\}"],

vmatrix: ["|", "|"],

Vmatrix: ["\\Vert", "\\Vert"]

} [t.envName],

r = vr(t.parser, {

hskipBeforeAndAfter: !1

}, br(t.envName));

return e ? {

type: "leftright",

mode: t.mode,

body: [r],

left: e[0],

right: e[1],

rightColor: void 0

} : r

},

htmlBuilder: yr,

mathmlBuilder: kr

}), gr({

type: "array",

names: ["smallmatrix"],

props: {

numArgs: 0

},

handler: function (t) {

var e = vr(t.parser, {

arraystretch: .5

}, "script");

return e.colSeparationType = "small", e

},

htmlBuilder: yr,

mathmlBuilder: kr

}), gr({

type: "array",

names: ["subarray"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = (Yt(e[0]) ? [e[0]] : Ft(e[0], "ordgroup").body).map(function (t) {

var e = Gt(t).text;

if (-1 !== "lc".indexOf(e)) return {

type: "align",

align: e

};

throw new o("Unknown column alignment: " + e, t)

});

if (r.length > 1) throw new o("{subarray} can contain only one column");

var a = {

cols: r,

hskipBeforeAndAfter: !1,

arraystretch: .5

};

if ((a = vr(t.parser, a, "script")).body[0].length > 1) throw new o("{subarray} can contain only one column");

return a

},

htmlBuilder: yr,

mathmlBuilder: kr

}), gr({

type: "array",

names: ["cases", "dcases"],

props: {

numArgs: 0

},

handler: function (t) {

var e = vr(t.parser, {

arraystretch: 1.2,

cols: [{

type: "align",

align: "l",

pregap: 0,

postgap: 1

}, {

type: "align",

align: "l",

pregap: 0,

postgap: 0

}]

}, br(t.envName));

return {

type: "leftright",

mode: t.mode,

body: [e],

left: "\\{",

right: ".",

rightColor: void 0

}

},

htmlBuilder: yr,

mathmlBuilder: kr

}), gr({

type: "array",

names: ["aligned"],

props: {

numArgs: 0

},

handler: Sr,

htmlBuilder: yr,

mathmlBuilder: kr

}), gr({

type: "array",

names: ["gathered"],

props: {

numArgs: 0

},

handler: function (t) {

return vr(t.parser, {

cols: [{

type: "align",

align: "c"

}],

addJot: !0

}, "display")

},

htmlBuilder: yr,

mathmlBuilder: kr

}), gr({

type: "array",

names: ["alignedat"],

props: {

numArgs: 1

},

handler: Sr,

htmlBuilder: yr,

mathmlBuilder: kr

}), Qt({

type: "text",

names: ["\\hline", "\\hdashline"],

props: {

numArgs: 0,

allowedInText: !0,

allowedInMath: !0

},

handler: function (t, e) {

throw new o(t.funcName + " valid only within array environment")

}

});

var Mr = fr;

Qt({

type: "environment",

names: ["\\begin", "\\end"],

props: {

numArgs: 1,

argTypes: ["text"]

},

handler: function (t, e) {

var r = t.parser,

a = t.funcName,

n = e[0];

if ("ordgroup" !== n.type) throw new o("Invalid environment name", n);

for (var i = "", s = 0; s < n.body.length; ++s) i += Ft(n.body[s], "textord").text;

if ("\\begin" === a) {

if (!Mr.hasOwnProperty(i)) throw new o("No such environment: " + i, n);

var h = Mr[i],

l = r.parseArguments("\\begin{" + i + "}", h),

m = l.args,

c = l.optArgs,

u = {

mode: r.mode,

envName: i,

parser: r

},

p = h.handler(u, m, c);

r.expect("\\end", !1);

var d = r.nextToken,

f = Ft(r.parseFunction(), "environment");

if (f.name !== i) throw new o("Mismatch: \\begin{" + i + "} matched by \\end{" + f.name + "}", d);

return p

}

return {

type: "environment",

mode: r.mode,

name: i,

nameGroup: n

}

}

});

var zr = Dt.makeSpan;

function Ar(t, e) {

var r = se(t.body, e, !0);

return zr([t.mclass], r, e)

}

function Tr(t, e) {

var r, a = ke(t.body, e);

return "minner" === t.mclass ? ve.newDocumentFragment(a) : ("mord" === t.mclass ? t.isCharacterBox ? (r = a[0]).type = "mi" : r = new ve.MathNode("mi", a) : (t.isCharacterBox ? (r = a[0]).type = "mo" : r = new ve.MathNode("mo", a), "mbin" === t.mclass ? (r.attributes.lspace = "0.22em", r.attributes.rspace = "0.22em") : "mpunct" === t.mclass ? (r.attributes.lspace = "0em", r.attributes.rspace = "0.17em") : "mopen" !== t.mclass && "mclose" !== t.mclass || (r.attributes.lspace = "0em", r.attributes.rspace = "0em")), r)

}

Qt({

type: "mclass",

names: ["\\mathord", "\\mathbin", "\\mathrel", "\\mathopen", "\\mathclose", "\\mathpunct", "\\mathinner"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = t.parser,

a = t.funcName,

n = e[0];

return {

type: "mclass",

mode: r.mode,

mclass: "m" + a.substr(5),

body: ee(n),

isCharacterBox: c.isCharacterBox(n)

}

},

htmlBuilder: Ar,

mathmlBuilder: Tr

});

var Br = function (t) {

var e = "ordgroup" === t.type && t.body.length ? t.body[0] : t;

return "atom" !== e.type || "bin" !== e.family && "rel" !== e.family ? "mord" : "m" + e.family

};

Qt({

type: "mclass",

names: ["\\@binrel"],

props: {

numArgs: 2

},

handler: function (t, e) {

return {

type: "mclass",

mode: t.parser.mode,

mclass: Br(e[0]),

body: [e[1]],

isCharacterBox: c.isCharacterBox(e[1])

}

}

}), Qt({

type: "mclass",

names: ["\\stackrel", "\\overset", "\\underset"],

props: {

numArgs: 2

},

handler: function (t, e) {

var r, a = t.parser,

n = t.funcName,

i = e[1],

o = e[0];

r = "\\stackrel" !== n ? Br(i) : "mrel";

var s = {

type: "op",

mode: i.mode,

limits: !0,

alwaysHandleSupSub: !0,

parentIsSupSub: !1,

symbol: !1,

suppressBaseShift: "\\stackrel" !== n,

body: ee(i)

},

h = {

type: "supsub",

mode: o.mode,

base: s,

sup: "\\underset" === n ? null : o,

sub: "\\underset" === n ? o : null

};

return {

type: "mclass",

mode: a.mode,

mclass: r,

body: [h],

isCharacterBox: c.isCharacterBox(h)

}

},

htmlBuilder: Ar,

mathmlBuilder: Tr

});

var Cr = function (t, e) {

var r = t.font,

a = e.withFont(r);

return ue(t.body, a)

},

qr = function (t, e) {

var r = t.font,

a = e.withFont(r);

return Me(t.body, a)

},

Nr = {

"\\Bbb": "\\mathbb",

"\\bold": "\\mathbf",

"\\frak": "\\mathfrak",

"\\bm": "\\boldsymbol"

};

Qt({

type: "font",

names: ["\\mathrm", "\\mathit", "\\mathbf", "\\mathnormal", "\\mathbb", "\\mathcal", "\\mathfrak", "\\mathscr", "\\mathsf", "\\mathtt", "\\Bbb", "\\bold", "\\frak"],

props: {

numArgs: 1,

greediness: 2

},

handler: function (t, e) {

var r = t.parser,

a = t.funcName,

n = e[0],

i = a;

return i in Nr && (i = Nr[i]), {

type: "font",

mode: r.mode,

font: i.slice(1),

body: n

}

},

htmlBuilder: Cr,

mathmlBuilder: qr

}), Qt({

type: "mclass",

names: ["\\boldsymbol", "\\bm"],

props: {

numArgs: 1,

greediness: 2

},

handler: function (t, e) {

var r = t.parser,

a = e[0],

n = c.isCharacterBox(a);

return {

type: "mclass",

mode: r.mode,

mclass: Br(a),

body: [{

type: "font",

mode: r.mode,

font: "boldsymbol",

body: a

}],

isCharacterBox: n

}

}

}), Qt({

type: "font",

names: ["\\rm", "\\sf", "\\tt", "\\bf", "\\it"],

props: {

numArgs: 0,

allowedInText: !0

},

handler: function (t, e) {

var r = t.parser,

a = t.funcName,

n = t.breakOnTokenText,

i = r.mode,

o = r.parseExpression(!0, n);

return {

type: "font",

mode: i,

font: "math" + a.slice(1),

body: {

type: "ordgroup",

mode: r.mode,

body: o

}

}

},

htmlBuilder: Cr,

mathmlBuilder: qr

});

var Ir = function (t, e) {

var r = e;

return "display" === t ? r = r.id >= w.SCRIPT.id ? r.text() : w.DISPLAY : "text" === t && r.size === w.DISPLAY.size ? r = w.TEXT : "script" === t ? r = w.SCRIPT : "scriptscript" === t && (r = w.SCRIPTSCRIPT), r

},

Rr = function (t, e) {

var r, a = Ir(t.size, e.style),

n = a.fracNum(),

i = a.fracDen();

r = e.havingStyle(n);

var o = ue(t.numer, r, e);

if (t.continued) {

var s = 8.5 / e.fontMetrics().ptPerEm,

h = 3.5 / e.fontMetrics().ptPerEm;

o.height = o.height < s ? s : o.height, o.depth = o.depth < h ? h : o.depth

}

r = e.havingStyle(i);

var l, m, c, u, p, d, f, g, x, v, b = ue(t.denom, r, e);

if (t.hasBarLine ? (t.barSize ? (m = Tt(t.barSize, e), l = Dt.makeLineSpan("frac-line", e, m)) : l = Dt.makeLineSpan("frac-line", e), m = l.height, c = l.height) : (l = null, m = 0, c = e.fontMetrics().defaultRuleThickness), a.size === w.DISPLAY.size || "display" === t.size ? (u = e.fontMetrics().num1, p = m > 0 ? 3 \* c : 7 \* c, d = e.fontMetrics().denom1) : (m > 0 ? (u = e.fontMetrics().num2, p = c) : (u = e.fontMetrics().num3, p = 3 \* c), d = e.fontMetrics().denom2), l) {

var y = e.fontMetrics().axisHeight;

u - o.depth - (y + .5 \* m) < p && (u += p - (u - o.depth - (y + .5 \* m))), y - .5 \* m - (b.height - d) < p && (d += p - (y - .5 \* m - (b.height - d)));

var k = -(y - .5 \* m);

f = Dt.makeVList({

positionType: "individualShift",

children: [{

type: "elem",

elem: b,

shift: d

}, {

type: "elem",

elem: l,

shift: k

}, {

type: "elem",

elem: o,

shift: -u

}]

}, e)

} else {

var S = u - o.depth - (b.height - d);

S < p && (u += .5 \* (p - S), d += .5 \* (p - S)), f = Dt.makeVList({

positionType: "individualShift",

children: [{

type: "elem",

elem: b,

shift: d

}, {

type: "elem",

elem: o,

shift: -u

}]

}, e)

}

return r = e.havingStyle(a), f.height \*= r.sizeMultiplier / e.sizeMultiplier, f.depth \*= r.sizeMultiplier / e.sizeMultiplier, g = a.size === w.DISPLAY.size ? e.fontMetrics().delim1 : e.fontMetrics().delim2, x = null == t.leftDelim ? ce(e, ["mopen"]) : sr(t.leftDelim, g, !0, e.havingStyle(a), t.mode, ["mopen"]), v = t.continued ? Dt.makeSpan([]) : null == t.rightDelim ? ce(e, ["mclose"]) : sr(t.rightDelim, g, !0, e.havingStyle(a), t.mode, ["mclose"]), Dt.makeSpan(["mord"].concat(r.sizingClasses(e)), [x, Dt.makeSpan(["mfrac"], [f]), v], e)

},

Or = function (t, e) {

var r = new ve.MathNode("mfrac", [Me(t.numer, e), Me(t.denom, e)]);

if (t.hasBarLine) {

if (t.barSize) {

var a = Tt(t.barSize, e);

r.setAttribute("linethickness", a + "em")

}

} else r.setAttribute("linethickness", "0px");

var n = Ir(t.size, e.style);

if (n.size !== e.style.size) {

r = new ve.MathNode("mstyle", [r]);

var i = n.size === w.DISPLAY.size ? "true" : "false";

r.setAttribute("displaystyle", i), r.setAttribute("scriptlevel", "0")

}

if (null != t.leftDelim || null != t.rightDelim) {

var o = [];

if (null != t.leftDelim) {

var s = new ve.MathNode("mo", [new ve.TextNode(t.leftDelim.replace("\\", ""))]);

s.setAttribute("fence", "true"), o.push(s)

}

if (o.push(r), null != t.rightDelim) {

var h = new ve.MathNode("mo", [new ve.TextNode(t.rightDelim.replace("\\", ""))]);

h.setAttribute("fence", "true"), o.push(h)

}

return ye(o)

}

return r

};

Qt({

type: "genfrac",

names: ["\\cfrac", "\\dfrac", "\\frac", "\\tfrac", "\\dbinom", "\\binom", "\\tbinom", "\\\\atopfrac", "\\\\bracefrac", "\\\\brackfrac"],

props: {

numArgs: 2,

greediness: 2

},

handler: function (t, e) {

var r, a = t.parser,

n = t.funcName,

i = e[0],

o = e[1],

s = null,

h = null,

l = "auto";

switch (n) {

case "\\cfrac":

case "\\dfrac":

case "\\frac":

case "\\tfrac":

r = !0;

break;

case "\\\\atopfrac":

r = !1;

break;

case "\\dbinom":

case "\\binom":

case "\\tbinom":

r = !1, s = "(", h = ")";

break;

case "\\\\bracefrac":

r = !1, s = "\\{", h = "\\}";

break;

case "\\\\brackfrac":

r = !1, s = "[", h = "]";

break;

default:

throw new Error("Unrecognized genfrac command")

}

switch (n) {

case "\\cfrac":

case "\\dfrac":

case "\\dbinom":

l = "display";

break;

case "\\tfrac":

case "\\tbinom":

l = "text"

}

return {

type: "genfrac",

mode: a.mode,

continued: "\\cfrac" === n,

numer: i,

denom: o,

hasBarLine: r,

leftDelim: s,

rightDelim: h,

size: l,

barSize: null

}

},

htmlBuilder: Rr,

mathmlBuilder: Or

}), Qt({

type: "infix",

names: ["\\over", "\\choose", "\\atop", "\\brace", "\\brack"],

props: {

numArgs: 0,

infix: !0

},

handler: function (t) {

var e, r = t.parser,

a = t.funcName,

n = t.token;

switch (a) {

case "\\over":

e = "\\frac";

break;

case "\\choose":

e = "\\binom";

break;

case "\\atop":

e = "\\\\atopfrac";

break;

case "\\brace":

e = "\\\\bracefrac";

break;

case "\\brack":

e = "\\\\brackfrac";

break;

default:

throw new Error("Unrecognized infix genfrac command")

}

return {

type: "infix",

mode: r.mode,

replaceWith: e,

token: n

}

}

});

var Er = ["display", "text", "script", "scriptscript"],

Lr = function (t) {

var e = null;

return t.length > 0 && (e = "." === (e = t) ? null : e), e

};

Qt({

type: "genfrac",

names: ["\\genfrac"],

props: {

numArgs: 6,

greediness: 6,

argTypes: ["math", "math", "size", "text", "math", "math"]

},

handler: function (t, e) {

var r = t.parser,

a = e[4],

n = e[5],

i = Vt(e[0], "atom");

i && (i = Ut(e[0], "open"));

var o = i ? Lr(i.text) : null,

s = Vt(e[1], "atom");

s && (s = Ut(e[1], "close"));

var h, l = s ? Lr(s.text) : null,

m = Ft(e[2], "size"),

c = null;

h = !!m.isBlank || (c = m.value).number > 0;

var u = "auto",

p = Vt(e[3], "ordgroup");

if (p) {

if (p.body.length > 0) {

var d = Ft(p.body[0], "textord");

u = Er[Number(d.text)]

}

} else p = Ft(e[3], "textord"), u = Er[Number(p.text)];

return {

type: "genfrac",

mode: r.mode,

numer: a,

denom: n,

continued: !1,

hasBarLine: h,

barSize: c,

leftDelim: o,

rightDelim: l,

size: u

}

},

htmlBuilder: Rr,

mathmlBuilder: Or

}), Qt({

type: "infix",

names: ["\\above"],

props: {

numArgs: 1,

argTypes: ["size"],

infix: !0

},

handler: function (t, e) {

var r = t.parser,

a = (t.funcName, t.token);

return {

type: "infix",

mode: r.mode,

replaceWith: "\\\\abovefrac",

size: Ft(e[0], "size").value,

token: a

}

}

}), Qt({

type: "genfrac",

names: ["\\\\abovefrac"],

props: {

numArgs: 3,

argTypes: ["math", "size", "math"]

},

handler: function (t, e) {

var r = t.parser,

a = (t.funcName, e[0]),

n = function (t) {

if (!t) throw new Error("Expected non-null, but got " + String(t));

return t

}(Ft(e[1], "infix").size),

i = e[2],

o = n.number > 0;

return {

type: "genfrac",

mode: r.mode,

numer: a,

denom: i,

continued: !1,

hasBarLine: o,

barSize: n,

leftDelim: null,

rightDelim: null,

size: "auto"

}

},

htmlBuilder: Rr,

mathmlBuilder: Or

});

var Hr = function (t, e) {

var r, a, n = e.style,

i = Vt(t, "supsub");

i ? (r = i.sup ? ue(i.sup, e.havingStyle(n.sup()), e) : ue(i.sub, e.havingStyle(n.sub()), e), a = Ft(i.base, "horizBrace")) : a = Ft(t, "horizBrace");

var o, s = ue(a.base, e.havingBaseStyle(w.DISPLAY)),

h = Oe(a, e);

if (a.isOver ? (o = Dt.makeVList({

positionType: "firstBaseline",

children: [{

type: "elem",

elem: s

}, {

type: "kern",

size: .1

}, {

type: "elem",

elem: h

}]

}, e)).children[0].children[0].children[1].classes.push("svg-align") : (o = Dt.makeVList({

positionType: "bottom",

positionData: s.depth + .1 + h.height,

children: [{

type: "elem",

elem: h

}, {

type: "kern",

size: .1

}, {

type: "elem",

elem: s

}]

}, e)).children[0].children[0].children[0].classes.push("svg-align"), r) {

var l = Dt.makeSpan(["mord", a.isOver ? "mover" : "munder"], [o], e);

o = a.isOver ? Dt.makeVList({

positionType: "firstBaseline",

children: [{

type: "elem",

elem: l

}, {

type: "kern",

size: .2

}, {

type: "elem",

elem: r

}]

}, e) : Dt.makeVList({

positionType: "bottom",

positionData: l.depth + .2 + r.height + r.depth,

children: [{

type: "elem",

elem: r

}, {

type: "kern",

size: .2

}, {

type: "elem",

elem: l

}]

}, e)

}

return Dt.makeSpan(["mord", a.isOver ? "mover" : "munder"], [o], e)

};

Qt({

type: "horizBrace",

names: ["\\overbrace", "\\underbrace"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = t.parser,

a = t.funcName;

return {

type: "horizBrace",

mode: r.mode,

label: a,

isOver: /^\\over/.test(a),

base: e[0]

}

},

htmlBuilder: Hr,

mathmlBuilder: function (t, e) {

var r = Re(t.label);

return new ve.MathNode(t.isOver ? "mover" : "munder", [Me(t.base, e), r])

}

}), Qt({

type: "href",

names: ["\\href"],

props: {

numArgs: 2,

argTypes: ["url", "original"],

allowedInText: !0

},

handler: function (t, e) {

var r = t.parser,

a = e[1],

n = Ft(e[0], "url").url;

return r.settings.isTrusted({

command: "\\href",

url: n

}) ? {

type: "href",

mode: r.mode,

href: n,

body: ee(a)

} : r.formatUnsupportedCmd("\\href")

},

htmlBuilder: function (t, e) {

var r = se(t.body, e, !1);

return Dt.makeAnchor(t.href, [], r, e)

},

mathmlBuilder: function (t, e) {

var r = Se(t.body, e);

return r instanceof ge || (r = new ge("mrow", [r])), r.setAttribute("href", t.href), r

}

}), Qt({

type: "href",

names: ["\\url"],

props: {

numArgs: 1,

argTypes: ["url"],

allowedInText: !0

},

handler: function (t, e) {

var r = t.parser,

a = Ft(e[0], "url").url;

if (!r.settings.isTrusted({

command: "\\url",

url: a

})) return r.formatUnsupportedCmd("\\url");

for (var n = [], i = 0; i < a.length; i++) {

var o = a[i];

"~" === o && (o = "\\textasciitilde"), n.push({

type: "textord",

mode: "text",

text: o

})

}

var s = {

type: "text",

mode: r.mode,

font: "\\texttt",

body: n

};

return {

type: "href",

mode: r.mode,

href: a,

body: ee(s)

}

}

}), Qt({

type: "htmlmathml",

names: ["\\html@mathml"],

props: {

numArgs: 2,

allowedInText: !0

},

handler: function (t, e) {

return {

type: "htmlmathml",

mode: t.parser.mode,

html: ee(e[0]),

mathml: ee(e[1])

}

},

htmlBuilder: function (t, e) {

var r = se(t.html, e, !1);

return Dt.makeFragment(r)

},

mathmlBuilder: function (t, e) {

return Se(t.mathml, e)

}

});

var Pr = function (t) {

if (/^[-+]? \*(\d+(\.\d\*)?|\.\d+)$/.test(t)) return {

number: +t,

unit: "bp"

};

var e = /([-+]?) \*(\d+(?:\.\d\*)?|\.\d+) \*([a-z]{2})/.exec(t);

if (!e) throw new o("Invalid size: '" + t + "' in \\includegraphics");

var r = {

number: +(e[1] + e[2]),

unit: e[3]

};

if (!At(r)) throw new o("Invalid unit: '" + r.unit + "' in \\includegraphics.");

return r

};

Qt({

type: "includegraphics",

names: ["\\includegraphics"],

props: {

numArgs: 1,

numOptionalArgs: 1,

argTypes: ["raw", "url"],

allowedInText: !1

},

handler: function (t, e, r) {

var a = t.parser,

n = {

number: 0,

unit: "em"

},

i = {

number: .9,

unit: "em"

},

s = {

number: 0,

unit: "em"

},

h = "";

if (r[0])

for (var l = Ft(r[0], "raw").string.split(","), m = 0; m < l.length; m++) {

var c = l[m].split("=");

if (2 === c.length) {

var u = c[1].trim();

switch (c[0].trim()) {

case "alt":

h = u;

break;

case "width":

n = Pr(u);

break;

case "height":

i = Pr(u);

break;

case "totalheight":

s = Pr(u);

break;

default:

throw new o("Invalid key: '" + c[0] + "' in \\includegraphics.")

}

}

}

var p = Ft(e[0], "url").url;

return "" === h && (h = (h = (h = p).replace(/^.\*[\\\/]/, "")).substring(0, h.lastIndexOf("."))), a.settings.isTrusted({

command: "\\includegraphics",

url: p

}) ? {

type: "includegraphics",

mode: a.mode,

alt: h,

width: n,

height: i,

totalheight: s,

src: p

} : a.formatUnsupportedCmd("\\includegraphics")

},

htmlBuilder: function (t, e) {

var r = Tt(t.height, e),

a = 0;

t.totalheight.number > 0 && (a = Tt(t.totalheight, e) - r, a = Number(a.toFixed(2)));

var n = 0;

t.width.number > 0 && (n = Tt(t.width, e));

var i = {

height: r + a + "em"

};

n > 0 && (i.width = n + "em"), a > 0 && (i.verticalAlign = -a + "em");

var o = new R(t.src, t.alt, i);

return o.height = r, o.depth = a, o

},

mathmlBuilder: function (t, e) {

var r = new ve.MathNode("mglyph", []);

r.setAttribute("alt", t.alt);

var a = Tt(t.height, e),

n = 0;

if (t.totalheight.number > 0 && (n = (n = Tt(t.totalheight, e) - a).toFixed(2), r.setAttribute("valign", "-" + n + "em")), r.setAttribute("height", a + n + "em"), t.width.number > 0) {

var i = Tt(t.width, e);

r.setAttribute("width", i + "em")

}

return r.setAttribute("src", t.src), r

}

}), Qt({

type: "kern",

names: ["\\kern", "\\mkern", "\\hskip", "\\mskip"],

props: {

numArgs: 1,

argTypes: ["size"],

allowedInText: !0

},

handler: function (t, e) {

var r = t.parser,

a = t.funcName,

n = Ft(e[0], "size");

if (r.settings.strict) {

var i = "m" === a[1],

o = "mu" === n.value.unit;

i ? (o || r.settings.reportNonstrict("mathVsTextUnits", "LaTeX's " + a + " supports only mu units, not " + n.value.unit + " units"), "math" !== r.mode && r.settings.reportNonstrict("mathVsTextUnits", "LaTeX's " + a + " works only in math mode")) : o && r.settings.reportNonstrict("mathVsTextUnits", "LaTeX's " + a + " doesn't support mu units")

}

return {

type: "kern",

mode: r.mode,

dimension: n.value

}

},

htmlBuilder: function (t, e) {

return Dt.makeGlue(t.dimension, e)

},

mathmlBuilder: function (t, e) {

var r = Tt(t.dimension, e);

return new ve.SpaceNode(r)

}

}), Qt({

type: "lap",

names: ["\\mathllap", "\\mathrlap", "\\mathclap"],

props: {

numArgs: 1,

allowedInText: !0

},

handler: function (t, e) {

var r = t.parser,

a = t.funcName,

n = e[0];

return {

type: "lap",

mode: r.mode,

alignment: a.slice(5),

body: n

}

},

htmlBuilder: function (t, e) {

var r;

"clap" === t.alignment ? (r = Dt.makeSpan([], [ue(t.body, e)]), r = Dt.makeSpan(["inner"], [r], e)) : r = Dt.makeSpan(["inner"], [ue(t.body, e)]);

var a = Dt.makeSpan(["fix"], []),

n = Dt.makeSpan([t.alignment], [r, a], e),

i = Dt.makeSpan(["strut"]);

return i.style.height = n.height + n.depth + "em", i.style.verticalAlign = -n.depth + "em", n.children.unshift(i), n = Dt.makeVList({

positionType: "firstBaseline",

children: [{

type: "elem",

elem: n

}]

}, e), Dt.makeSpan(["mord"], [n], e)

},

mathmlBuilder: function (t, e) {

var r = new ve.MathNode("mpadded", [Me(t.body, e)]);

if ("rlap" !== t.alignment) {

var a = "llap" === t.alignment ? "-1" : "-0.5";

r.setAttribute("lspace", a + "width")

}

return r.setAttribute("width", "0px"), r

}

}), Qt({

type: "styling",

names: ["\\(", "$"],

props: {

numArgs: 0,

allowedInText: !0,

allowedInMath: !1

},

handler: function (t, e) {

var r = t.funcName,

a = t.parser,

n = a.mode;

a.switchMode("math");

var i = "\\(" === r ? "\\)" : "$",

o = a.parseExpression(!1, i);

return a.expect(i), a.switchMode(n), {

type: "styling",

mode: a.mode,

style: "text",

body: o

}

}

}), Qt({

type: "text",

names: ["\\)", "\\]"],

props: {

numArgs: 0,

allowedInText: !0,

allowedInMath: !1

},

handler: function (t, e) {

throw new o("Mismatched " + t.funcName)

}

});

var Dr = function (t, e) {

switch (e.style.size) {

case w.DISPLAY.size:

return t.display;

case w.TEXT.size:

return t.text;

case w.SCRIPT.size:

return t.script;

case w.SCRIPTSCRIPT.size:

return t.scriptscript;

default:

return t.text

}

};

Qt({

type: "mathchoice",

names: ["\\mathchoice"],

props: {

numArgs: 4

},

handler: function (t, e) {

return {

type: "mathchoice",

mode: t.parser.mode,

display: ee(e[0]),

text: ee(e[1]),

script: ee(e[2]),

scriptscript: ee(e[3])

}

},

htmlBuilder: function (t, e) {

var r = Dr(t, e),

a = se(r, e, !1);

return Dt.makeFragment(a)

},

mathmlBuilder: function (t, e) {

var r = Dr(t, e);

return Se(r, e)

}

});

var Fr = function (t, e, r, a, n, i, o) {

var s, h, l;

if (t = Dt.makeSpan([], [t]), e) {

var m = ue(e, a.havingStyle(n.sup()), a);

h = {

elem: m,

kern: Math.max(a.fontMetrics().bigOpSpacing1, a.fontMetrics().bigOpSpacing3 - m.depth)

}

}

if (r) {

var c = ue(r, a.havingStyle(n.sub()), a);

s = {

elem: c,

kern: Math.max(a.fontMetrics().bigOpSpacing2, a.fontMetrics().bigOpSpacing4 - c.height)

}

}

if (h && s) {

var u = a.fontMetrics().bigOpSpacing5 + s.elem.height + s.elem.depth + s.kern + t.depth + o;

l = Dt.makeVList({

positionType: "bottom",

positionData: u,

children: [{

type: "kern",

size: a.fontMetrics().bigOpSpacing5

}, {

type: "elem",

elem: s.elem,

marginLeft: -i + "em"

}, {

type: "kern",

size: s.kern

}, {

type: "elem",

elem: t

}, {

type: "kern",

size: h.kern

}, {

type: "elem",

elem: h.elem,

marginLeft: i + "em"

}, {

type: "kern",

size: a.fontMetrics().bigOpSpacing5

}]

}, a)

} else if (s) {

var p = t.height - o;

l = Dt.makeVList({

positionType: "top",

positionData: p,

children: [{

type: "kern",

size: a.fontMetrics().bigOpSpacing5

}, {

type: "elem",

elem: s.elem,

marginLeft: -i + "em"

}, {

type: "kern",

size: s.kern

}, {

type: "elem",

elem: t

}]

}, a)

} else {

if (!h) return t;

var d = t.depth + o;

l = Dt.makeVList({

positionType: "bottom",

positionData: d,

children: [{

type: "elem",

elem: t

}, {

type: "kern",

size: h.kern

}, {

type: "elem",

elem: h.elem,

marginLeft: i + "em"

}, {

type: "kern",

size: a.fontMetrics().bigOpSpacing5

}]

}, a)

}

return Dt.makeSpan(["mop", "op-limits"], [l], a)

},

Vr = ["\\smallint"],

Ur = function (t, e) {

var r, a, n, i = !1,

o = Vt(t, "supsub");

o ? (r = o.sup, a = o.sub, n = Ft(o.base, "op"), i = !0) : n = Ft(t, "op");

var s, h = e.style,

l = !1;

if (h.size === w.DISPLAY.size && n.symbol && !c.contains(Vr, n.name) && (l = !0), n.symbol) {

var m = l ? "Size2-Regular" : "Size1-Regular",

u = "";

if ("\\oiint" !== n.name && "\\oiiint" !== n.name || (u = n.name.substr(1), n.name = "oiint" === u ? "\\iint" : "\\iiint"), s = Dt.makeSymbol(n.name, m, "math", e, ["mop", "op-symbol", l ? "large-op" : "small-op"]), u.length > 0) {

var p = s.italic,

d = Dt.staticSvg(u + "Size" + (l ? "2" : "1"), e);

s = Dt.makeVList({

positionType: "individualShift",

children: [{

type: "elem",

elem: s,

shift: 0

}, {

type: "elem",

elem: d,

shift: l ? .08 : 0

}]

}, e), n.name = "\\" + u, s.classes.unshift("mop"), s.italic = p

}

} else if (n.body) {

var f = se(n.body, e, !0);

1 === f.length && f[0] instanceof E ? (s = f[0]).classes[0] = "mop" : s = Dt.makeSpan(["mop"], Dt.tryCombineChars(f), e)

} else {

for (var g = [], x = 1; x < n.name.length; x++) g.push(Dt.mathsym(n.name[x], n.mode, e));

s = Dt.makeSpan(["mop"], g, e)

}

var v = 0,

b = 0;

return (s instanceof E || "\\oiint" === n.name || "\\oiiint" === n.name) && !n.suppressBaseShift && (v = (s.height - s.depth) / 2 - e.fontMetrics().axisHeight, b = s.italic), i ? Fr(s, r, a, e, h, b, v) : (v && (s.style.position = "relative", s.style.top = v + "em"), s)

},

Gr = function (t, e) {

var r;

if (t.symbol) r = new ge("mo", [be(t.name, t.mode)]), c.contains(Vr, t.name) && r.setAttribute("largeop", "false");

else if (t.body) r = new ge("mo", ke(t.body, e));

else {

r = new ge("mi", [new xe(t.name.slice(1))]);

var a = new ge("mo", [be("\u2061", "text")]);

r = t.parentIsSupSub ? new ge("mo", [r, a]) : fe([r, a])

}

return r

},

Yr = {

"\u220f": "\\prod",

"\u2210": "\\coprod",

"\u2211": "\\sum",

"\u22c0": "\\bigwedge",

"\u22c1": "\\bigvee",

"\u22c2": "\\bigcap",

"\u22c3": "\\bigcup",

"\u2a00": "\\bigodot",

"\u2a01": "\\bigoplus",

"\u2a02": "\\bigotimes",

"\u2a04": "\\biguplus",

"\u2a06": "\\bigsqcup"

};

Qt({

type: "op",

names: ["\\coprod", "\\bigvee", "\\bigwedge", "\\biguplus", "\\bigcap", "\\bigcup", "\\intop", "\\prod", "\\sum", "\\bigotimes", "\\bigoplus", "\\bigodot", "\\bigsqcup", "\\smallint", "\u220f", "\u2210", "\u2211", "\u22c0", "\u22c1", "\u22c2", "\u22c3", "\u2a00", "\u2a01", "\u2a02", "\u2a04", "\u2a06"],

props: {

numArgs: 0

},

handler: function (t, e) {

var r = t.parser,

a = t.funcName;

return 1 === a.length && (a = Yr[a]), {

type: "op",

mode: r.mode,

limits: !0,

parentIsSupSub: !1,

symbol: !0,

name: a

}

},

htmlBuilder: Ur,

mathmlBuilder: Gr

}), Qt({

type: "op",

names: ["\\mathop"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = t.parser,

a = e[0];

return {

type: "op",

mode: r.mode,

limits: !1,

parentIsSupSub: !1,

symbol: !1,

body: ee(a)

}

},

htmlBuilder: Ur,

mathmlBuilder: Gr

});

var Wr = {

"\u222b": "\\int",

"\u222c": "\\iint",

"\u222d": "\\iiint",

"\u222e": "\\oint",

"\u222f": "\\oiint",

"\u2230": "\\oiiint"

};

Qt({

type: "op",

names: ["\\arcsin", "\\arccos", "\\arctan", "\\arctg", "\\arcctg", "\\arg", "\\ch", "\\cos", "\\cosec", "\\cosh", "\\cot", "\\cotg", "\\coth", "\\csc", "\\ctg", "\\cth", "\\deg", "\\dim", "\\exp", "\\hom", "\\ker", "\\lg", "\\ln", "\\log", "\\sec", "\\sin", "\\sinh", "\\sh", "\\tan", "\\tanh", "\\tg", "\\th"],

props: {

numArgs: 0

},

handler: function (t) {

var e = t.parser,

r = t.funcName;

return {

type: "op",

mode: e.mode,

limits: !1,

parentIsSupSub: !1,

symbol: !1,

name: r

}

},

htmlBuilder: Ur,

mathmlBuilder: Gr

}), Qt({

type: "op",

names: ["\\det", "\\gcd", "\\inf", "\\lim", "\\max", "\\min", "\\Pr", "\\sup"],

props: {

numArgs: 0

},

handler: function (t) {

var e = t.parser,

r = t.funcName;

return {

type: "op",

mode: e.mode,

limits: !0,

parentIsSupSub: !1,

symbol: !1,

name: r

}

},

htmlBuilder: Ur,

mathmlBuilder: Gr

}), Qt({

type: "op",

names: ["\\int", "\\iint", "\\iiint", "\\oint", "\\oiint", "\\oiiint", "\u222b", "\u222c", "\u222d", "\u222e", "\u222f", "\u2230"],

props: {

numArgs: 0

},

handler: function (t) {

var e = t.parser,

r = t.funcName;

return 1 === r.length && (r = Wr[r]), {

type: "op",

mode: e.mode,

limits: !1,

parentIsSupSub: !1,

symbol: !0,

name: r

}

},

htmlBuilder: Ur,

mathmlBuilder: Gr

});

var Xr = function (t, e) {

var r, a, n, i, o = !1,

s = Vt(t, "supsub");

if (s ? (r = s.sup, a = s.sub, n = Ft(s.base, "operatorname"), o = !0) : n = Ft(t, "operatorname"), n.body.length > 0) {

for (var h = n.body.map(function (t) {

var e = t.text;

return "string" == typeof e ? {

type: "textord",

mode: t.mode,

text: e

} : t

}), l = se(h, e.withFont("mathrm"), !0), m = 0; m < l.length; m++) {

var c = l[m];

c instanceof E && (c.text = c.text.replace(/\u2212/, "-").replace(/\u2217/, "\*"))

}

i = Dt.makeSpan(["mop"], l, e)

} else i = Dt.makeSpan(["mop"], [], e);

return o ? Fr(i, r, a, e, e.style, 0, 0) : i

};

function \_r(t, e, r) {

for (var a = se(t, e, !1), n = e.sizeMultiplier / r.sizeMultiplier, i = 0; i < a.length; i++) {

var o = a[i].classes.indexOf("sizing");

o < 0 ? Array.prototype.push.apply(a[i].classes, e.sizingClasses(r)) : a[i].classes[o + 1] === "reset-size" + e.size && (a[i].classes[o + 1] = "reset-size" + r.size), a[i].height \*= n, a[i].depth \*= n

}

return Dt.makeFragment(a)

}

Qt({

type: "operatorname",

names: ["\\operatorname", "\\operatorname\*"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = t.parser,

a = t.funcName,

n = e[0];

return {

type: "operatorname",

mode: r.mode,

body: ee(n),

alwaysHandleSupSub: "\\operatorname\*" === a,

limits: !1,

parentIsSupSub: !1

}

},

htmlBuilder: Xr,

mathmlBuilder: function (t, e) {

for (var r = ke(t.body, e.withFont("mathrm")), a = !0, n = 0; n < r.length; n++) {

var i = r[n];

if (i instanceof ve.SpaceNode);

else if (i instanceof ve.MathNode) switch (i.type) {

case "mi":

case "mn":

case "ms":

case "mspace":

case "mtext":

break;

case "mo":

var o = i.children[0];

1 === i.children.length && o instanceof ve.TextNode ? o.text = o.text.replace(/\u2212/, "-").replace(/\u2217/, "\*") : a = !1;

break;

default:

a = !1

} else a = !1

}

if (a) {

var s = r.map(function (t) {

return t.toText()

}).join("");

r = [new ve.TextNode(s)]

}

var h = new ve.MathNode("mi", r);

h.setAttribute("mathvariant", "normal");

var l = new ve.MathNode("mo", [be("\u2061", "text")]);

return t.parentIsSupSub ? new ve.MathNode("mo", [h, l]) : ve.newDocumentFragment([h, l])

}

}), te({

type: "ordgroup",

htmlBuilder: function (t, e) {

return t.semisimple ? Dt.makeFragment(se(t.body, e, !1)) : Dt.makeSpan(["mord"], se(t.body, e, !0), e)

},

mathmlBuilder: function (t, e) {

return Se(t.body, e, !0)

}

}), Qt({

type: "overline",

names: ["\\overline"],

props: {

numArgs: 1

},

handler: function (t, e) {

var r = t.parser,

a = e[0];

return {

type: "overline",

mode: r.mode,

body: a

}

},

htmlBuilder: function (t, e) {

var r = ue(t.body, e.havingCrampedStyle()),

a = Dt.makeLineSpan("overline-line", e),

n = e.fontMetrics().defaultRuleThickness,

i = Dt.makeVList({

positionType: "firstBaseline",

children: [{

type: "elem",

elem: r

}, {

type: "kern",

size: 3 \* n

}, {

type: "elem",

elem: a

}, {

type: "kern",

size: n

}]

}, e);

return Dt.makeSpan(["mord", "overline"], [i], e)

},

mathmlBuilder: function (t, e) {

var r = new ve.MathNode("mo", [new ve.TextNode("\u203e")]);

r.setAttribute("stretchy", "true");

var a = new ve.MathNode("mover", [Me(t.body, e), r]);

return a.setAttribute("accent", "true"), a

}

}), Qt({

type: "phantom",

names: ["\\phantom"],

props: {

numArgs: 1,

allowedInText: !0

},

handler: function (t, e) {

var r = t.parser,

a = e[0];

return {

type: "phantom",

mode: r.mode,

body: ee(a)

}

},

htmlBuilder: function (t, e) {

var r = se(t.body, e.withPhantom(), !1);

return Dt.makeFragment(r)

},

mathmlBuilder: function (t, e) {

var r = ke(t.body, e);

return new ve.MathNode("mphantom", r)

}

}), Qt({

type: "hphantom",

names: ["\\hphantom"],

props: {

numArgs: 1,

allowedInText: !0

},

handler: function (t, e) {

var r = t.parser,

a = e[0];

return {

type: "hphantom",

mode: r.mode,

body: a

}

},

htmlBuilder: function (t, e) {

var r = Dt.makeSpan([], [ue(t.body, e.withPhantom())]);

if (r.height = 0, r.depth = 0, r.children)

for (var a = 0; a < r.children.length; a++) r.children[a].height = 0, r.children[a].depth = 0;

return r = Dt.makeVList({

positionType: "firstBaseline",

children: [{

type: "elem",

elem: r

}]

}, e), Dt.makeSpan(["mord"], [r], e)

},

mathmlBuilder: function (t, e) {

var r = ke(ee(t.body), e),

a = new ve.MathNode("mphantom", r),

n = new ve.MathNode("mpadded", [a]);

return n.setAttribute("height", "0px"), n.setAttribute("depth", "0px"), n

}

}), Qt({

type: "vphantom",

names: ["\\vphantom"],

props: {

numArgs: 1,

allowedInText: !0

},

handler: function (t, e) {

var r = t.parser,

a = e[0];

return {

type: "vphantom",

mode: r.mode,

body: a

}

},

htmlBuilder: function (t, e) {

var r = Dt.makeSpan(["inner"], [ue(t.body, e.withPhantom())]),

a = Dt.makeSpan(["fix"], []);

return Dt.makeSpan(["mord", "rlap"], [r, a], e)

},

mathmlBuilder: function (t, e) {

var r = ke(ee(t.body), e),

a = new ve.MathNode("mphantom", r),

n = new ve.MathNode("mpadded", [a]);

return n.setAttribute("width", "0px"), n

}

}), Qt({

type: "raisebox",

names: ["\\raisebox"],

props: {

numArgs: 2,

argTypes: ["size", "hbox"],

allowedInText: !0

},

handler: function (t, e) {

var r = t.parser,

a = Ft(e[0], "size").value,

n = e[1];

return {

type: "raisebox",

mode: r.mode,

dy: a,

body: n

}

},

htmlBuilder: function (t, e) {

var r = ue(t.body, e),

a = Tt(t.dy, e);

return Dt.makeVList({

positionType: "shift",

positionData: -a,

children: [{

type: "elem",

elem: r

}]

}, e)

},

mathmlBuilder: function (t, e) {

var r = new ve.MathNode("mpadded", [Me(t.body, e)]),

a = t.dy.number + t.dy.unit;

return r.setAttribute("voffset", a), r

}

}), Qt({

type: "rule",

names: ["\\rule"],

props: {

numArgs: 2,

numOptionalArgs: 1,

argTypes: ["size", "size", "size"]

},

handler: function (t, e, r) {

var a = t.parser,

n = r[0],

i = Ft(e[0], "size"),

o = Ft(e[1], "size");

return {

type: "rule",

mode: a.mode,

shift: n && Ft(n, "size").value,

width: i.value,

height: o.value

}

},

htmlBuilder: function (t, e) {

var r = Dt.makeSpan(["mord", "rule"], [], e),

a = Tt(t.width, e),

n = Tt(t.height, e),

i = t.shift ? Tt(t.shift, e) : 0;

return r.style.borderRightWidth = a + "em", r.style.borderTopWidth = n + "em", r.style.bottom = i + "em", r.width = a, r.height = n + i, r.depth = -i, r.maxFontSize = 1.125 \* n \* e.sizeMultiplier, r

},

mathmlBuilder: function (t, e) {

var r = Tt(t.width, e),

a = Tt(t.height, e),

n = t.shift ? Tt(t.shift, e) : 0,

i = e.color && e.getColor() || "black",

o = new ve.MathNode("mspace");

o.setAttribute("mathbackground", i), o.setAttribute("width", r + "em"), o.setAttribute("height", a + "em");

var s = new ve.MathNode("mpadded", [o]);

return n >= 0 ? s.setAttribute("height", "+" + n + "em") : (s.setAttribute("height", n + "em"), s.setAttribute("depth", "+" + -n + "em")), s.setAttribute("voffset", n + "em"), s

}

});

var jr = ["\\tiny", "\\sixptsize", "\\scriptsize", "\\footnotesize", "\\small", "\\normalsize", "\\large", "\\Large", "\\LARGE", "\\huge", "\\Huge"];

Qt({

type: "sizing",

names: jr,

props: {

numArgs: 0,

allowedInText: !0

},

handler: function (t, e) {

var r = t.breakOnTokenText,

a = t.funcName,

n = t.parser,

i = n.parseExpression(!1, r);

return {

type: "sizing",

mode: n.mode,

size: jr.indexOf(a) + 1,

body: i

}

},

htmlBuilder: function (t, e) {

var r = e.havingSize(t.size);

return \_r(t.body, r, e)

},

mathmlBuilder: function (t, e) {

var r = e.havingSize(t.size),

a = ke(t.body, r),

n = new ve.MathNode("mstyle", a);

return n.setAttribute("mathsize", r.sizeMultiplier + "em"), n

}

}), Qt({

type: "smash",

names: ["\\smash"],

props: {

numArgs: 1,

numOptionalArgs: 1,

allowedInText: !0

},

handler: function (t, e, r) {

var a = t.parser,

n = !1,

i = !1,

o = r[0] && Ft(r[0], "ordgroup");

if (o)

for (var s = "", h = 0; h < o.body.length; ++h) {

if ("t" === (s = o.body[h].text)) n = !0;

else {

if ("b" !== s) {

n = !1, i = !1;

break

}

i = !0

}

} else n = !0, i = !0;

var l = e[0];

return {

type: "smash",

mode: a.mode,

body: l,

smashHeight: n,

smashDepth: i

}

},

htmlBuilder: function (t, e) {

var r = Dt.makeSpan([], [ue(t.body, e)]);

if (!t.smashHeight && !t.smashDepth) return r;

if (t.smashHeight && (r.height = 0, r.children))

for (var a = 0; a < r.children.length; a++) r.children[a].height = 0;

if (t.smashDepth && (r.depth = 0, r.children))

for (var n = 0; n < r.children.length; n++) r.children[n].depth = 0;

var i = Dt.makeVList({

positionType: "firstBaseline",

children: [{

type: "elem",

elem: r

}]

}, e);

return Dt.makeSpan(["mord"], [i], e)

},

mathmlBuilder: function (t, e) {

var r = new ve.MathNode("mpadded", [Me(t.body, e)]);

return t.smashHeight && r.setAttribute("height", "0px"), t.smashDepth && r.setAttribute("depth", "0px"), r

}

}), Qt({

type: "sqrt",

names: ["\\sqrt"],

props: {

numArgs: 1,

numOptionalArgs: 1

},

handler: function (t, e, r) {

var a = t.parser,

n = r[0],

i = e[0];

return {

type: "sqrt",

mode: a.mode,

body: i,

index: n

}

},

htmlBuilder: function (t, e) {

var r = ue(t.body, e.havingCrampedStyle());

0 === r.height && (r.height = e.fontMetrics().xHeight), r = Dt.wrapFragment(r, e);

var a = e.fontMetrics().defaultRuleThickness,

n = a;

e.style.id < w.TEXT.id && (n = e.fontMetrics().xHeight);

var i = a + n / 4,

o = r.height + r.depth + i + a,

s = ir(o, e),

h = s.span,

l = s.ruleWidth,

m = s.advanceWidth,

c = h.height - l;

c > r.height + r.depth + i && (i = (i + c - r.height - r.depth) / 2);

var u = h.height - r.height - i - l;

r.style.paddingLeft = m + "em";

var p = Dt.makeVList({

positionType: "firstBaseline",

children: [{

type: "elem",

elem: r,

wrapperClasses: ["svg-align"]

}, {

type: "kern",

size: -(r.height + u)

}, {

type: "elem",

elem: h

}, {

type: "kern",

size: l

}]

}, e);

if (t.index) {

var d = e.havingStyle(w.SCRIPTSCRIPT),

f = ue(t.index, d, e),

g = .6 \* (p.height - p.depth),

x = Dt.makeVList({

positionType: "shift",

positionData: -g,

children: [{

type: "elem",

elem: f

}]

}, e),

v = Dt.makeSpan(["root"], [x]);

return Dt.makeSpan(["mord", "sqrt"], [v, p], e)

}

return Dt.makeSpan(["mord", "sqrt"], [p], e)

},

mathmlBuilder: function (t, e) {

var r = t.body,

a = t.index;

return a ? new ve.MathNode("mroot", [Me(r, e), Me(a, e)]) : new ve.MathNode("msqrt", [Me(r, e)])

}

});

var $r = {

display: w.DISPLAY,

text: w.TEXT,

script: w.SCRIPT,

scriptscript: w.SCRIPTSCRIPT

};

Qt({

type: "styling",

names: ["\\displaystyle", "\\textstyle", "\\scriptstyle", "\\scriptscriptstyle"],

props: {

numArgs: 0,

allowedInText: !0

},

handler: function (t, e) {

var r = t.breakOnTokenText,

a = t.funcName,

n = t.parser,

i = n.parseExpression(!0, r),

o = a.slice(1, a.length - 5);

return {

type: "styling",

mode: n.mode,

style: o,

body: i

}

},

htmlBuilder: function (t, e) {

var r = $r[t.style],

a = e.havingStyle(r).withFont("");

return \_r(t.body, a, e)

},

mathmlBuilder: function (t, e) {

var r = $r[t.style],

a = e.havingStyle(r),

n = ke(t.body, a),

i = new ve.MathNode("mstyle", n),

o = {

display: ["0", "true"],

text: ["0", "false"],

script: ["1", "false"],

scriptscript: ["2", "false"]

} [t.style];

return i.setAttribute("scriptlevel", o[0]), i.setAttribute("displaystyle", o[1]), i

}

});

te({

type: "supsub",

htmlBuilder: function (t, e) {

var r = function (t, e) {

var r = t.base;

return r ? "op" === r.type ? r.limits && (e.style.size === w.DISPLAY.size || r.alwaysHandleSupSub) ? Ur : null : "operatorname" === r.type ? r.alwaysHandleSupSub && (e.style.size === w.DISPLAY.size || r.limits) ? Xr : null : "accent" === r.type ? c.isCharacterBox(r.base) ? Ee : null : "horizBrace" === r.type && !t.sub === r.isOver ? Hr : null : null

}(t, e);

if (r) return r(t, e);

var a, n, i, o = t.base,

s = t.sup,

h = t.sub,

l = ue(o, e),

m = e.fontMetrics(),

u = 0,

p = 0,

d = o && c.isCharacterBox(o);

if (s) {

var f = e.havingStyle(e.style.sup());

a = ue(s, f, e), d || (u = l.height - f.fontMetrics().supDrop \* f.sizeMultiplier / e.sizeMultiplier)

}

if (h) {

var g = e.havingStyle(e.style.sub());

n = ue(h, g, e), d || (p = l.depth + g.fontMetrics().subDrop \* g.sizeMultiplier / e.sizeMultiplier)

}

i = e.style === w.DISPLAY ? m.sup1 : e.style.cramped ? m.sup3 : m.sup2;

var x, v = e.sizeMultiplier,

b = .5 / m.ptPerEm / v + "em",

y = null;

if (n) {

var k = t.base && "op" === t.base.type && t.base.name && ("\\oiint" === t.base.name || "\\oiiint" === t.base.name);

(l instanceof E || k) && (y = -l.italic + "em")

}

if (a && n) {

u = Math.max(u, i, a.depth + .25 \* m.xHeight), p = Math.max(p, m.sub2);

var S = 4 \* m.defaultRuleThickness;

if (u - a.depth - (n.height - p) < S) {

p = S - (u - a.depth) + n.height;

var M = .8 \* m.xHeight - (u - a.depth);

M > 0 && (u += M, p -= M)

}

var z = [{

type: "elem",

elem: n,

shift: p,

marginRight: b,

marginLeft: y

}, {

type: "elem",

elem: a,

shift: -u,

marginRight: b

}];

x = Dt.makeVList({

positionType: "individualShift",

children: z

}, e)

} else if (n) {

p = Math.max(p, m.sub1, n.height - .8 \* m.xHeight);

var A = [{

type: "elem",

elem: n,

marginLeft: y,

marginRight: b

}];

x = Dt.makeVList({

positionType: "shift",

positionData: p,

children: A

}, e)

} else {

if (!a) throw new Error("supsub must have either sup or sub.");

u = Math.max(u, i, a.depth + .25 \* m.xHeight), x = Dt.makeVList({

positionType: "shift",

positionData: -u,

children: [{

type: "elem",

elem: a,

marginRight: b

}]

}, e)

}

var T = me(l, "right") || "mord";

return Dt.makeSpan([T], [l, Dt.makeSpan(["msupsub"], [x])], e)

},

mathmlBuilder: function (t, e) {

var r, a = !1,

n = Vt(t.base, "horizBrace");

n && !!t.sup === n.isOver && (a = !0, r = n.isOver), !t.base || "op" !== t.base.type && "operatorname" !== t.base.type || (t.base.parentIsSupSub = !0);

var i, o = [Me(t.base, e)];

if (t.sub && o.push(Me(t.sub, e)), t.sup && o.push(Me(t.sup, e)), a) i = r ? "mover" : "munder";

else if (t.sub)

if (t.sup) {

var s = t.base;

i = s && "op" === s.type && s.limits && e.style === w.DISPLAY ? "munderover" : s && "operatorname" === s.type && s.alwaysHandleSupSub && (e.style === w.DISPLAY || s.limits) ? "munderover" : "msubsup"

} else {

var h = t.base;

i = h && "op" === h.type && h.limits && (e.style === w.DISPLAY || h.alwaysHandleSupSub) ? "munder" : h && "operatorname" === h.type && h.alwaysHandleSupSub && (h.limits || e.style === w.DISPLAY) ? "munder" : "msub"

}

else {

var l = t.base;

i = l && "op" === l.type && l.limits && (e.style === w.DISPLAY || l.alwaysHandleSupSub) ? "mover" : l && "operatorname" === l.type && l.alwaysHandleSupSub && (l.limits || e.style === w.DISPLAY) ? "mover" : "msup"

}

return new ve.MathNode(i, o)

}

}), te({

type: "atom",

htmlBuilder: function (t, e) {

return Dt.mathsym(t.text, t.mode, e, ["m" + t.family])

},

mathmlBuilder: function (t, e) {

var r = new ve.MathNode("mo", [be(t.text, t.mode)]);

if ("bin" === t.family) {

var a = we(t, e);

"bold-italic" === a && r.setAttribute("mathvariant", a)

} else "punct" === t.family ? r.setAttribute("separator", "true") : "open" !== t.family && "close" !== t.family || r.setAttribute("stretchy", "false");

return r

}

});

var Zr = {

mi: "italic",

mn: "normal",

mtext: "normal"

};

te({

type: "mathord",

htmlBuilder: function (t, e) {

return Dt.makeOrd(t, e, "mathord")

},

mathmlBuilder: function (t, e) {

var r = new ve.MathNode("mi", [be(t.text, t.mode, e)]),

a = we(t, e) || "italic";

return a !== Zr[r.type] && r.setAttribute("mathvariant", a), r

}

}), te({

type: "textord",

htmlBuilder: function (t, e) {

return Dt.makeOrd(t, e, "textord")

},

mathmlBuilder: function (t, e) {

var r, a = be(t.text, t.mode, e),

n = we(t, e) || "normal";

return r = "text" === t.mode ? new ve.MathNode("mtext", [a]) : /[0-9]/.test(t.text) ? new ve.MathNode("mn", [a]) : "\\prime" === t.text ? new ve.MathNode("mo", [a]) : new ve.MathNode("mi", [a]), n !== Zr[r.type] && r.setAttribute("mathvariant", n), r

}

});

var Kr = {

"\\nobreak": "nobreak",

"\\allowbreak": "allowbreak"

},

Jr = {

" ": {},

"\\ ": {},

"~": {

className: "nobreak"

},

"\\space": {},

"\\nobreakspace": {

className: "nobreak"

}

};

te({

type: "spacing",

htmlBuilder: function (t, e) {

if (Jr.hasOwnProperty(t.text)) {

var r = Jr[t.text].className || "";

if ("text" === t.mode) {

var a = Dt.makeOrd(t, e, "textord");

return a.classes.push(r), a

}

return Dt.makeSpan(["mspace", r], [Dt.mathsym(t.text, t.mode, e)], e)

}

if (Kr.hasOwnProperty(t.text)) return Dt.makeSpan(["mspace", Kr[t.text]], [], e);

throw new o('Unknown type of space "' + t.text + '"')

},

mathmlBuilder: function (t, e) {

if (!Jr.hasOwnProperty(t.text)) {

if (Kr.hasOwnProperty(t.text)) return new ve.MathNode("mspace");

throw new o('Unknown type of space "' + t.text + '"')

}

return new ve.MathNode("mtext", [new ve.TextNode("\xa0")])

}

});

var Qr = function () {

var t = new ve.MathNode("mtd", []);

return t.setAttribute("width", "50%"), t

};

te({

type: "tag",

mathmlBuilder: function (t, e) {

var r = new ve.MathNode("mtable", [new ve.MathNode("mtr", [Qr(), new ve.MathNode("mtd", [Se(t.body, e)]), Qr(), new ve.MathNode("mtd", [Se(t.tag, e)])])]);

return r.setAttribute("width", "100%"), r

}

});

var ta = {

"\\text": void 0,

"\\textrm": "textrm",

"\\textsf": "textsf",

"\\texttt": "texttt",

"\\textnormal": "textrm"

},

ea = {

"\\textbf": "textbf",

"\\textmd": "textmd"

},

ra = {

"\\textit": "textit",

"\\textup": "textup"

},

aa = function (t, e) {

var r = t.font;

return r ? ta[r] ? e.withTextFontFamily(ta[r]) : ea[r] ? e.withTextFontWeight(ea[r]) : e.withTextFontShape(ra[r]) : e

};

Qt({

type: "text",

names: ["\\text", "\\textrm", "\\textsf", "\\texttt", "\\textnormal", "\\textbf", "\\textmd", "\\textit", "\\textup"],

props: {

numArgs: 1,

argTypes: ["text"],

greediness: 2,

allowedInText: !0

},

handler: function (t, e) {

var r = t.parser,

a = t.funcName,

n = e[0];

return {

type: "text",

mode: r.mode,

body: ee(n),

font: a

}

},

htmlBuilder: function (t, e) {

var r = aa(t, e),

a = se(t.body, r, !0);

return Dt.makeSpan(["mord", "text"], Dt.tryCombineChars(a), r)

},

mathmlBuilder: function (t, e) {

var r = aa(t, e);

return Se(t.body, r)

}

}), Qt({

type: "underline",

names: ["\\underline"],

props: {

numArgs: 1,

allowedInText: !0

},

handler: function (t, e) {

return {

type: "underline",

mode: t.parser.mode,

body: e[0]

}

},

htmlBuilder: function (t, e) {

var r = ue(t.body, e),

a = Dt.makeLineSpan("underline-line", e),

n = e.fontMetrics().defaultRuleThickness,

i = Dt.makeVList({

positionType: "top",

positionData: r.height,

children: [{

type: "kern",

size: n

}, {

type: "elem",

elem: a

}, {

type: "kern",

size: 3 \* n

}, {

type: "elem",

elem: r

}]

}, e);

return Dt.makeSpan(["mord", "underline"], [i], e)

},

mathmlBuilder: function (t, e) {

var r = new ve.MathNode("mo", [new ve.TextNode("\u203e")]);

r.setAttribute("stretchy", "true");

var a = new ve.MathNode("munder", [Me(t.body, e), r]);

return a.setAttribute("accentunder", "true"), a

}

}), Qt({

type: "verb",

names: ["\\verb"],

props: {

numArgs: 0,

allowedInText: !0

},

handler: function (t, e, r) {

throw new o("\\verb ended by end of line instead of matching delimiter")

},

htmlBuilder: function (t, e) {

for (var r = na(t), a = [], n = e.havingStyle(e.style.text()), i = 0; i < r.length; i++) {

var o = r[i];

"~" === o && (o = "\\textasciitilde"), a.push(Dt.makeSymbol(o, "Typewriter-Regular", t.mode, n, ["mord", "texttt"]))

}

return Dt.makeSpan(["mord", "text"].concat(n.sizingClasses(e)), Dt.tryCombineChars(a), n)

},

mathmlBuilder: function (t, e) {

var r = new ve.TextNode(na(t)),

a = new ve.MathNode("mtext", [r]);

return a.setAttribute("mathvariant", "monospace"), a

}

});

var na = function (t) {

return t.body.replace(/ /g, t.star ? "\u2423" : "\xa0")

},

ia = Zt,

oa = new RegExp("^(\\\\[a-zA-Z@]+)[ \r\n\t]\*$"),

sa = new RegExp("[\u0300-\u036f]+$"),

ha = "([ \r\n\t]+)|([!-\\[\\]-\u2027\u202a-\ud7ff\uf900-\uffff][\u0300-\u036f]\*|[\ud800-\udbff][\udc00-\udfff][\u0300-\u036f]\*|\\\\verb\\\*([^]).\*?\\3|\\\\verb([^\*a-zA-Z]).\*?\\4|\\\\operatorname\\\*|\\\\[a-zA-Z@]+[ \r\n\t]\*|\\\\[^\ud800-\udfff])",

la = function () {

function t(t, e) {

this.input = void 0, this.settings = void 0, this.tokenRegex = void 0, this.catcodes = void 0, this.input = t, this.settings = e, this.tokenRegex = new RegExp(ha, "g"), this.catcodes = {

"%": 14

}

}

var e = t.prototype;

return e.setCatcode = function (t, e) {

this.catcodes[t] = e

}, e.lex = function () {

var t = this.input,

e = this.tokenRegex.lastIndex;

if (e === t.length) return new n("EOF", new a(this, e, e));

var r = this.tokenRegex.exec(t);

if (null === r || r.index !== e) throw new o("Unexpected character: '" + t[e] + "'", new n(t[e], new a(this, e, e + 1)));

var i = r[2] || " ";

if (14 === this.catcodes[i]) {

var s = t.indexOf("\n", this.tokenRegex.lastIndex);

return -1 === s ? (this.tokenRegex.lastIndex = t.length, this.settings.reportNonstrict("commentAtEnd", "% comment has no terminating newline; LaTeX would fail because of commenting the end of math mode (e.g. $)")) : this.tokenRegex.lastIndex = s + 1, this.lex()

}

var h = i.match(oa);

return h && (i = h[1]), new n(i, new a(this, e, this.tokenRegex.lastIndex))

}, t

}(),

ma = function () {

function t(t, e) {

void 0 === t && (t = {}), void 0 === e && (e = {}), this.current = void 0, this.builtins = void 0, this.undefStack = void 0, this.current = e, this.builtins = t, this.undefStack = []

}

var e = t.prototype;

return e.beginGroup = function () {

this.undefStack.push({})

}, e.endGroup = function () {

if (0 === this.undefStack.length) throw new o("Unbalanced namespace destruction: attempt to pop global namespace; please report this as a bug");

var t = this.undefStack.pop();

for (var e in t) t.hasOwnProperty(e) && (void 0 === t[e] ? delete this.current[e] : this.current[e] = t[e])

}, e.has = function (t) {

return this.current.hasOwnProperty(t) || this.builtins.hasOwnProperty(t)

}, e.get = function (t) {

return this.current.hasOwnProperty(t) ? this.current[t] : this.builtins[t]

}, e.set = function (t, e, r) {

if (void 0 === r && (r = !1), r) {

for (var a = 0; a < this.undefStack.length; a++) delete this.undefStack[a][t];

this.undefStack.length > 0 && (this.undefStack[this.undefStack.length - 1][t] = e)

} else {

var n = this.undefStack[this.undefStack.length - 1];

n && !n.hasOwnProperty(t) && (n[t] = this.current[t])

}

this.current[t] = e

}, t

}(),

ca = {},

ua = ca;

function pa(t, e) {

ca[t] = e

}

pa("\\@firstoftwo", function (t) {

return {

tokens: t.consumeArgs(2)[0],

numArgs: 0

}

}), pa("\\@secondoftwo", function (t) {

return {

tokens: t.consumeArgs(2)[1],

numArgs: 0

}

}), pa("\\@ifnextchar", function (t) {

var e = t.consumeArgs(3),

r = t.future();

return 1 === e[0].length && e[0][0].text === r.text ? {

tokens: e[1],

numArgs: 0

} : {

tokens: e[2],

numArgs: 0

}

}), pa("\\@ifstar", "\\@ifnextchar \*{\\@firstoftwo{#1}}"), pa("\\TextOrMath", function (t) {

var e = t.consumeArgs(2);

return "text" === t.mode ? {

tokens: e[0],

numArgs: 0

} : {

tokens: e[1],

numArgs: 0

}

});

var da = {

0: 0,

1: 1,

2: 2,

3: 3,

4: 4,

5: 5,

6: 6,

7: 7,

8: 8,

9: 9,

a: 10,

A: 10,

b: 11,

B: 11,

c: 12,

C: 12,

d: 13,

D: 13,

e: 14,

E: 14,

f: 15,

F: 15

};

pa("\\char", function (t) {

var e, r = t.popToken(),

a = "";

if ("'" === r.text) e = 8, r = t.popToken();

else if ('"' === r.text) e = 16, r = t.popToken();

else if ("`" === r.text)

if ("\\" === (r = t.popToken()).text[0]) a = r.text.charCodeAt(1);

else {

if ("EOF" === r.text) throw new o("\\char` missing argument");

a = r.text.charCodeAt(0)

}

else e = 10;

if (e) {

if (null == (a = da[r.text]) || a >= e) throw new o("Invalid base-" + e + " digit " + r.text);

for (var n; null != (n = da[t.future().text]) && n < e;) a \*= e, a += n, t.popToken()

}

return "\\@char{" + a + "}"

});

var fa = function (t, e) {

var r = t.consumeArgs(1)[0];

if (1 !== r.length) throw new o("\\gdef's first argument must be a macro name");

var a = r[0].text,

n = 0;

for (r = t.consumeArgs(1)[0]; 1 === r.length && "#" === r[0].text;) {

if (1 !== (r = t.consumeArgs(1)[0]).length) throw new o('Invalid argument number length "' + r.length + '"');

if (!/^[1-9]$/.test(r[0].text)) throw new o('Invalid argument number "' + r[0].text + '"');

if (n++, parseInt(r[0].text) !== n) throw new o('Argument number "' + r[0].text + '" out of order');

r = t.consumeArgs(1)[0]

}

return t.macros.set(a, {

tokens: r,

numArgs: n

}, e), ""

};

pa("\\gdef", function (t) {

return fa(t, !0)

}), pa("\\def", function (t) {

return fa(t, !1)

}), pa("\\global", function (t) {

var e = t.consumeArgs(1)[0];

if (1 !== e.length) throw new o("Invalid command after \\global");

var r = e[0].text;

if ("\\def" === r) return fa(t, !0);

throw new o("Invalid command '" + r + "' after \\global")

});

var ga = function (t, e, r) {

var a = t.consumeArgs(1)[0];

if (1 !== a.length) throw new o("\\newcommand's first argument must be a macro name");

var n = a[0].text,

i = t.isDefined(n);

if (i && !e) throw new o("\\newcommand{" + n + "} attempting to redefine " + n + "; use \\renewcommand");

if (!i && !r) throw new o("\\renewcommand{" + n + "} when command " + n + " does not yet exist; use \\newcommand");

var s = 0;

if (1 === (a = t.consumeArgs(1)[0]).length && "[" === a[0].text) {

for (var h = "", l = t.expandNextToken();

"]" !== l.text && "EOF" !== l.text;) h += l.text, l = t.expandNextToken();

if (!h.match(/^\s\*[0-9]+\s\*$/)) throw new o("Invalid number of arguments: " + h);

s = parseInt(h), a = t.consumeArgs(1)[0]

}

return t.macros.set(n, {

tokens: a,

numArgs: s

}), ""

};

pa("\\newcommand", function (t) {

return ga(t, !1, !0)

}), pa("\\renewcommand", function (t) {

return ga(t, !0, !1)

}), pa("\\providecommand", function (t) {

return ga(t, !0, !0)

}), pa("\\bgroup", "{"), pa("\\egroup", "}"), pa("\\lq", "`"), pa("\\rq", "'"), pa("\\aa", "\\r a"), pa("\\AA", "\\r A"), pa("\\textcopyright", "\\html@mathml{\\textcircled{c}}{\\char`\xa9}"), pa("\\copyright", "\\TextOrMath{\\textcopyright}{\\text{\\textcopyright}}"), pa("\\textregistered", "\\html@mathml{\\textcircled{\\scriptsize R}}{\\char`\xae}"), pa("\u212c", "\\mathscr{B}"), pa("\u2130", "\\mathscr{E}"), pa("\u2131", "\\mathscr{F}"), pa("\u210b", "\\mathscr{H}"), pa("\u2110", "\\mathscr{I}"), pa("\u2112", "\\mathscr{L}"), pa("\u2133", "\\mathscr{M}"), pa("\u211b", "\\mathscr{R}"), pa("\u212d", "\\mathfrak{C}"), pa("\u210c", "\\mathfrak{H}"), pa("\u2128", "\\mathfrak{Z}"), pa("\\Bbbk", "\\Bbb{k}"), pa("\xb7", "\\cdotp"), pa("\\llap", "\\mathllap{\\textrm{#1}}"), pa("\\rlap", "\\mathrlap{\\textrm{#1}}"), pa("\\clap", "\\mathclap{\\textrm{#1}}"), pa("\\not", '\\html@mathml{\\mathrel{\\mathrlap\\@not}}{\\char"338}'), pa("\\neq", "\\html@mathml{\\mathrel{\\not=}}{\\mathrel{\\char`\u2260}}"), pa("\\ne", "\\neq"), pa("\u2260", "\\neq"), pa("\\notin", "\\html@mathml{\\mathrel{{\\in}\\mathllap{/\\mskip1mu}}}{\\mathrel{\\char`\u2209}}"), pa("\u2209", "\\notin"), pa("\u2258", "\\html@mathml{\\mathrel{=\\kern{-1em}\\raisebox{0.4em}{$\\scriptsize\\frown$}}}{\\mathrel{\\char`\u2258}}"), pa("\u2259", "\\html@mathml{\\stackrel{\\tiny\\wedge}{=}}{\\mathrel{\\char`\u2258}}"), pa("\u225a", "\\html@mathml{\\stackrel{\\tiny\\vee}{=}}{\\mathrel{\\char`\u225a}}"), pa("\u225b", "\\html@mathml{\\stackrel{\\scriptsize\\star}{=}}{\\mathrel{\\char`\u225b}}"), pa("\u225d", "\\html@mathml{\\stackrel{\\tiny\\mathrm{def}}{=}}{\\mathrel{\\char`\u225d}}"), pa("\u225e", "\\html@mathml{\\stackrel{\\tiny\\mathrm{m}}{=}}{\\mathrel{\\char`\u225e}}"), pa("\u225f", "\\html@mathml{\\stackrel{\\tiny?}{=}}{\\mathrel{\\char`\u225f}}"), pa("\u27c2", "\\perp"), pa("\u203c", "\\mathclose{!\\mkern-0.8mu!}"), pa("\u220c", "\\notni"), pa("\u231c", "\\ulcorner"), pa("\u231d", "\\urcorner"), pa("\u231e", "\\llcorner"), pa("\u231f", "\\lrcorner"), pa("\xa9", "\\copyright"), pa("\xae", "\\textregistered"), pa("\ufe0f", "\\textregistered"), pa("\\vdots", "\\mathord{\\varvdots\\rule{0pt}{15pt}}"), pa("\u22ee", "\\vdots"), pa("\\varGamma", "\\mathit{\\Gamma}"), pa("\\varDelta", "\\mathit{\\Delta}"), pa("\\varTheta", "\\mathit{\\Theta}"), pa("\\varLambda", "\\mathit{\\Lambda}"), pa("\\varXi", "\\mathit{\\Xi}"), pa("\\varPi", "\\mathit{\\Pi}"), pa("\\varSigma", "\\mathit{\\Sigma}"), pa("\\varUpsilon", "\\mathit{\\Upsilon}"), pa("\\varPhi", "\\mathit{\\Phi}"), pa("\\varPsi", "\\mathit{\\Psi}"), pa("\\varOmega", "\\mathit{\\Omega}"), pa("\\substack", "\\begin{subarray}{c}#1\\end{subarray}"), pa("\\colon", "\\nobreak\\mskip2mu\\mathpunct{}\\mathchoice{\\mkern-3mu}{\\mkern-3mu}{}{}{:}\\mskip6mu"), pa("\\boxed", "\\fbox{$\\displaystyle{#1}$}"), pa("\\iff", "\\DOTSB\\;\\Longleftrightarrow\\;"), pa("\\implies", "\\DOTSB\\;\\Longrightarrow\\;"), pa("\\impliedby", "\\DOTSB\\;\\Longleftarrow\\;");

var xa = {

",": "\\dotsc",

"\\not": "\\dotsb",

"+": "\\dotsb",

"=": "\\dotsb",

"<": "\\dotsb",

">": "\\dotsb",

"-": "\\dotsb",

"\*": "\\dotsb",

":": "\\dotsb",

"\\DOTSB": "\\dotsb",

"\\coprod": "\\dotsb",

"\\bigvee": "\\dotsb",

"\\bigwedge": "\\dotsb",

"\\biguplus": "\\dotsb",

"\\bigcap": "\\dotsb",

"\\bigcup": "\\dotsb",

"\\prod": "\\dotsb",

"\\sum": "\\dotsb",

"\\bigotimes": "\\dotsb",

"\\bigoplus": "\\dotsb",

"\\bigodot": "\\dotsb",

"\\bigsqcup": "\\dotsb",

"\\And": "\\dotsb",

"\\longrightarrow": "\\dotsb",

"\\Longrightarrow": "\\dotsb",

"\\longleftarrow": "\\dotsb",

"\\Longleftarrow": "\\dotsb",

"\\longleftrightarrow": "\\dotsb",

"\\Longleftrightarrow": "\\dotsb",

"\\mapsto": "\\dotsb",

"\\longmapsto": "\\dotsb",

"\\hookrightarrow": "\\dotsb",

"\\doteq": "\\dotsb",

"\\mathbin": "\\dotsb",

"\\mathrel": "\\dotsb",

"\\relbar": "\\dotsb",

"\\Relbar": "\\dotsb",

"\\xrightarrow": "\\dotsb",

"\\xleftarrow": "\\dotsb",

"\\DOTSI": "\\dotsi",

"\\int": "\\dotsi",

"\\oint": "\\dotsi",

"\\iint": "\\dotsi",

"\\iiint": "\\dotsi",

"\\iiiint": "\\dotsi",

"\\idotsint": "\\dotsi",

"\\DOTSX": "\\dotsx"

};

pa("\\dots", function (t) {

var e = "\\dotso",

r = t.expandAfterFuture().text;

return r in xa ? e = xa[r] : "\\not" === r.substr(0, 4) ? e = "\\dotsb" : r in j.math && c.contains(["bin", "rel"], j.math[r].group) && (e = "\\dotsb"), e

});

var va = {

")": !0,

"]": !0,

"\\rbrack": !0,

"\\}": !0,

"\\rbrace": !0,

"\\rangle": !0,

"\\rceil": !0,

"\\rfloor": !0,

"\\rgroup": !0,

"\\rmoustache": !0,

"\\right": !0,

"\\bigr": !0,

"\\biggr": !0,

"\\Bigr": !0,

"\\Biggr": !0,

$: !0,

";": !0,

".": !0,

",": !0

};

pa("\\dotso", function (t) {

return t.future().text in va ? "\\ldots\\," : "\\ldots"

}), pa("\\dotsc", function (t) {

var e = t.future().text;

return e in va && "," !== e ? "\\ldots\\," : "\\ldots"

}), pa("\\cdots", function (t) {

return t.future().text in va ? "\\@cdots\\," : "\\@cdots"

}), pa("\\dotsb", "\\cdots"), pa("\\dotsm", "\\cdots"), pa("\\dotsi", "\\!\\cdots"), pa("\\dotsx", "\\ldots\\,"), pa("\\DOTSI", "\\relax"), pa("\\DOTSB", "\\relax"), pa("\\DOTSX", "\\relax"), pa("\\tmspace", "\\TextOrMath{\\kern#1#3}{\\mskip#1#2}\\relax"), pa("\\,", "\\tmspace+{3mu}{.1667em}"), pa("\\thinspace", "\\,"), pa("\\>", "\\mskip{4mu}"), pa("\\:", "\\tmspace+{4mu}{.2222em}"), pa("\\medspace", "\\:"), pa("\\;", "\\tmspace+{5mu}{.2777em}"), pa("\\thickspace", "\\;"), pa("\\!", "\\tmspace-{3mu}{.1667em}"), pa("\\negthinspace", "\\!"), pa("\\negmedspace", "\\tmspace-{4mu}{.2222em}"), pa("\\negthickspace", "\\tmspace-{5mu}{.277em}"), pa("\\enspace", "\\kern.5em "), pa("\\enskip", "\\hskip.5em\\relax"), pa("\\quad", "\\hskip1em\\relax"), pa("\\qquad", "\\hskip2em\\relax"), pa("\\tag", "\\@ifstar\\tag@literal\\tag@paren"), pa("\\tag@paren", "\\tag@literal{({#1})}"), pa("\\tag@literal", function (t) {

if (t.macros.get("\\df@tag")) throw new o("Multiple \\tag");

return "\\gdef\\df@tag{\\text{#1}}"

}), pa("\\bmod", "\\mathchoice{\\mskip1mu}{\\mskip1mu}{\\mskip5mu}{\\mskip5mu}\\mathbin{\\rm mod}\\mathchoice{\\mskip1mu}{\\mskip1mu}{\\mskip5mu}{\\mskip5mu}"), pa("\\pod", "\\allowbreak\\mathchoice{\\mkern18mu}{\\mkern8mu}{\\mkern8mu}{\\mkern8mu}(#1)"), pa("\\pmod", "\\pod{{\\rm mod}\\mkern6mu#1}"), pa("\\mod", "\\allowbreak\\mathchoice{\\mkern18mu}{\\mkern12mu}{\\mkern12mu}{\\mkern12mu}{\\rm mod}\\,\\,#1"), pa("\\pmb", "\\html@mathml{\\@binrel{#1}{\\mathrlap{#1}\\kern0.5px#1}}{\\mathbf{#1}}"), pa("\\\\", "\\newline"), pa("\\TeX", "\\textrm{\\html@mathml{T\\kern-.1667em\\raisebox{-.5ex}{E}\\kern-.125emX}{TeX}}");

var ba = F["Main-Regular"]["T".charCodeAt(0)][1] - .7 \* F["Main-Regular"]["A".charCodeAt(0)][1] + "em";

pa("\\LaTeX", "\\textrm{\\html@mathml{L\\kern-.36em\\raisebox{" + ba + "}{\\scriptstyle A}\\kern-.15em\\TeX}{LaTeX}}"), pa("\\KaTeX", "\\textrm{\\html@mathml{K\\kern-.17em\\raisebox{" + ba + "}{\\scriptstyle A}\\kern-.15em\\TeX}{KaTeX}}"), pa("\\hspace", "\\@ifstar\\@hspacer\\@hspace"), pa("\\@hspace", "\\hskip #1\\relax"), pa("\\@hspacer", "\\rule{0pt}{0pt}\\hskip #1\\relax"), pa("\\ordinarycolon", ":"), pa("\\vcentcolon", "\\mathrel{\\mathop\\ordinarycolon}"), pa("\\dblcolon", '\\html@mathml{\\mathrel{\\vcentcolon\\mathrel{\\mkern-.9mu}\\vcentcolon}}{\\mathop{\\char"2237}}'), pa("\\coloneqq", '\\html@mathml{\\mathrel{\\vcentcolon\\mathrel{\\mkern-1.2mu}=}}{\\mathop{\\char"2254}}'), pa("\\Coloneqq", '\\html@mathml{\\mathrel{\\dblcolon\\mathrel{\\mkern-1.2mu}=}}{\\mathop{\\char"2237\\char"3d}}'), pa("\\coloneq", '\\html@mathml{\\mathrel{\\vcentcolon\\mathrel{\\mkern-1.2mu}\\mathrel{-}}}{\\mathop{\\char"3a\\char"2212}}'), pa("\\Coloneq", '\\html@mathml{\\mathrel{\\dblcolon\\mathrel{\\mkern-1.2mu}\\mathrel{-}}}{\\mathop{\\char"2237\\char"2212}}'), pa("\\eqqcolon", '\\html@mathml{\\mathrel{=\\mathrel{\\mkern-1.2mu}\\vcentcolon}}{\\mathop{\\char"2255}}'), pa("\\Eqqcolon", '\\html@mathml{\\mathrel{=\\mathrel{\\mkern-1.2mu}\\dblcolon}}{\\mathop{\\char"3d\\char"2237}}'), pa("\\eqcolon", '\\html@mathml{\\mathrel{\\mathrel{-}\\mathrel{\\mkern-1.2mu}\\vcentcolon}}{\\mathop{\\char"2239}}'), pa("\\Eqcolon", '\\html@mathml{\\mathrel{\\mathrel{-}\\mathrel{\\mkern-1.2mu}\\dblcolon}}{\\mathop{\\char"2212\\char"2237}}'), pa("\\colonapprox", '\\html@mathml{\\mathrel{\\vcentcolon\\mathrel{\\mkern-1.2mu}\\approx}}{\\mathop{\\char"3a\\char"2248}}'), pa("\\Colonapprox", '\\html@mathml{\\mathrel{\\dblcolon\\mathrel{\\mkern-1.2mu}\\approx}}{\\mathop{\\char"2237\\char"2248}}'), pa("\\colonsim", '\\html@mathml{\\mathrel{\\vcentcolon\\mathrel{\\mkern-1.2mu}\\sim}}{\\mathop{\\char"3a\\char"223c}}'), pa("\\Colonsim", '\\html@mathml{\\mathrel{\\dblcolon\\mathrel{\\mkern-1.2mu}\\sim}}{\\mathop{\\char"2237\\char"223c}}'), pa("\u2237", "\\dblcolon"), pa("\u2239", "\\eqcolon"), pa("\u2254", "\\coloneqq"), pa("\u2255", "\\eqqcolon"), pa("\u2a74", "\\Coloneqq"), pa("\\ratio", "\\vcentcolon"), pa("\\coloncolon", "\\dblcolon"), pa("\\colonequals", "\\coloneqq"), pa("\\coloncolonequals", "\\Coloneqq"), pa("\\equalscolon", "\\eqqcolon"), pa("\\equalscoloncolon", "\\Eqqcolon"), pa("\\colonminus", "\\coloneq"), pa("\\coloncolonminus", "\\Coloneq"), pa("\\minuscolon", "\\eqcolon"), pa("\\minuscoloncolon", "\\Eqcolon"), pa("\\coloncolonapprox", "\\Colonapprox"), pa("\\coloncolonsim", "\\Colonsim"), pa("\\simcolon", "\\mathrel{\\sim\\mathrel{\\mkern-1.2mu}\\vcentcolon}"), pa("\\simcoloncolon", "\\mathrel{\\sim\\mathrel{\\mkern-1.2mu}\\dblcolon}"), pa("\\approxcolon", "\\mathrel{\\approx\\mathrel{\\mkern-1.2mu}\\vcentcolon}"), pa("\\approxcoloncolon", "\\mathrel{\\approx\\mathrel{\\mkern-1.2mu}\\dblcolon}"), pa("\\notni", "\\html@mathml{\\not\\ni}{\\mathrel{\\char`\u220c}}"), pa("\\limsup", "\\DOTSB\\operatorname\*{lim\\,sup}"), pa("\\liminf", "\\DOTSB\\operatorname\*{lim\\,inf}"), pa("\\gvertneqq", "\\html@mathml{\\@gvertneqq}{\u2269}"), pa("\\lvertneqq", "\\html@mathml{\\@lvertneqq}{\u2268}"), pa("\\ngeqq", "\\html@mathml{\\@ngeqq}{\u2271}"), pa("\\ngeqslant", "\\html@mathml{\\@ngeqslant}{\u2271}"), pa("\\nleqq", "\\html@mathml{\\@nleqq}{\u2270}"), pa("\\nleqslant", "\\html@mathml{\\@nleqslant}{\u2270}"), pa("\\nshortmid", "\\html@mathml{\\@nshortmid}{\u2224}"), pa("\\nshortparallel", "\\html@mathml{\\@nshortparallel}{\u2226}"), pa("\\nsubseteqq", "\\html@mathml{\\@nsubseteqq}{\u2288}"), pa("\\nsupseteqq", "\\html@mathml{\\@nsupseteqq}{\u2289}"), pa("\\varsubsetneq", "\\html@mathml{\\@varsubsetneq}{\u228a}"), pa("\\varsubsetneqq", "\\html@mathml{\\@varsubsetneqq}{\u2acb}"), pa("\\varsupsetneq", "\\html@mathml{\\@varsupsetneq}{\u228b}"), pa("\\varsupsetneqq", "\\html@mathml{\\@varsupsetneqq}{\u2acc}"), pa("\\llbracket", "\\html@mathml{\\mathopen{[\\mkern-3.2mu[}}{\\mathopen{\\char`\u27e6}}"), pa("\\rrbracket", "\\html@mathml{\\mathclose{]\\mkern-3.2mu]}}{\\mathclose{\\char`\u27e7}}"), pa("\u27e6", "\\llbracket"), pa("\u27e7", "\\rrbracket"), pa("\\lBrace", "\\html@mathml{\\mathopen{\\{\\mkern-3.2mu[}}{\\mathopen{\\char`\u2983}}"), pa("\\rBrace", "\\html@mathml{\\mathclose{]\\mkern-3.2mu\\}}}{\\mathclose{\\char`\u2984}}"), pa("\u2983", "\\lBrace"), pa("\u2984", "\\rBrace"), pa("\\darr", "\\downarrow"), pa("\\dArr", "\\Downarrow"), pa("\\Darr", "\\Downarrow"), pa("\\lang", "\\langle"), pa("\\rang", "\\rangle"), pa("\\uarr", "\\uparrow"), pa("\\uArr", "\\Uparrow"), pa("\\Uarr", "\\Uparrow"), pa("\\N", "\\mathbb{N}"), pa("\\R", "\\mathbb{R}"), pa("\\Z", "\\mathbb{Z}"), pa("\\alef", "\\aleph"), pa("\\alefsym", "\\aleph"), pa("\\Alpha", "\\mathrm{A}"), pa("\\Beta", "\\mathrm{B}"), pa("\\bull", "\\bullet"), pa("\\Chi", "\\mathrm{X}"), pa("\\clubs", "\\clubsuit"), pa("\\cnums", "\\mathbb{C}"), pa("\\Complex", "\\mathbb{C}"), pa("\\Dagger", "\\ddagger"), pa("\\diamonds", "\\diamondsuit"), pa("\\empty", "\\emptyset"), pa("\\Epsilon", "\\mathrm{E}"), pa("\\Eta", "\\mathrm{H}"), pa("\\exist", "\\exists"), pa("\\harr", "\\leftrightarrow"), pa("\\hArr", "\\Leftrightarrow"), pa("\\Harr", "\\Leftrightarrow"), pa("\\hearts", "\\heartsuit"), pa("\\image", "\\Im"), pa("\\infin", "\\infty"), pa("\\Iota", "\\mathrm{I}"), pa("\\isin", "\\in"), pa("\\Kappa", "\\mathrm{K}"), pa("\\larr", "\\leftarrow"), pa("\\lArr", "\\Leftarrow"), pa("\\Larr", "\\Leftarrow"), pa("\\lrarr", "\\leftrightarrow"), pa("\\lrArr", "\\Leftrightarrow"), pa("\\Lrarr", "\\Leftrightarrow"), pa("\\Mu", "\\mathrm{M}"), pa("\\natnums", "\\mathbb{N}"), pa("\\Nu", "\\mathrm{N}"), pa("\\Omicron", "\\mathrm{O}"), pa("\\plusmn", "\\pm"), pa("\\rarr", "\\rightarrow"), pa("\\rArr", "\\Rightarrow"), pa("\\Rarr", "\\Rightarrow"), pa("\\real", "\\Re"), pa("\\reals", "\\mathbb{R}"), pa("\\Reals", "\\mathbb{R}"), pa("\\Rho", "\\mathrm{P}"), pa("\\sdot", "\\cdot"), pa("\\sect", "\\S"), pa("\\spades", "\\spadesuit"), pa("\\sub", "\\subset"), pa("\\sube", "\\subseteq"), pa("\\supe", "\\supseteq"), pa("\\Tau", "\\mathrm{T}"), pa("\\thetasym", "\\vartheta"), pa("\\weierp", "\\wp"), pa("\\Zeta", "\\mathrm{Z}"), pa("\\argmin", "\\DOTSB\\operatorname\*{arg\\,min}"), pa("\\argmax", "\\DOTSB\\operatorname\*{arg\\,max}"), pa("\\plim", "\\DOTSB\\mathop{\\operatorname{plim}}\\limits"), pa("\\blue", "\\textcolor{##6495ed}{#1}"), pa("\\orange", "\\textcolor{##ffa500}{#1}"), pa("\\pink", "\\textcolor{##ff00af}{#1}"), pa("\\red", "\\textcolor{##df0030}{#1}"), pa("\\green", "\\textcolor{##28ae7b}{#1}"), pa("\\gray", "\\textcolor{gray}{#1}"), pa("\\purple", "\\textcolor{##9d38bd}{#1}"), pa("\\blueA", "\\textcolor{##ccfaff}{#1}"), pa("\\blueB", "\\textcolor{##80f6ff}{#1}"), pa("\\blueC", "\\textcolor{##63d9ea}{#1}"), pa("\\blueD", "\\textcolor{##11accd}{#1}"), pa("\\blueE", "\\textcolor{##0c7f99}{#1}"), pa("\\tealA", "\\textcolor{##94fff5}{#1}"), pa("\\tealB", "\\textcolor{##26edd5}{#1}"), pa("\\tealC", "\\textcolor{##01d1c1}{#1}"), pa("\\tealD", "\\textcolor{##01a995}{#1}"), pa("\\tealE", "\\textcolor{##208170}{#1}"), pa("\\greenA", "\\textcolor{##b6ffb0}{#1}"), pa("\\greenB", "\\textcolor{##8af281}{#1}"), pa("\\greenC", "\\textcolor{##74cf70}{#1}"), pa("\\greenD", "\\textcolor{##1fab54}{#1}"), pa("\\greenE", "\\textcolor{##0d923f}{#1}"), pa("\\goldA", "\\textcolor{##ffd0a9}{#1}"), pa("\\goldB", "\\textcolor{##ffbb71}{#1}"), pa("\\goldC", "\\textcolor{##ff9c39}{#1}"), pa("\\goldD", "\\textcolor{##e07d10}{#1}"), pa("\\goldE", "\\textcolor{##a75a05}{#1}"), pa("\\redA", "\\textcolor{##fca9a9}{#1}"), pa("\\redB", "\\textcolor{##ff8482}{#1}"), pa("\\redC", "\\textcolor{##f9685d}{#1}"), pa("\\redD", "\\textcolor{##e84d39}{#1}"), pa("\\redE", "\\textcolor{##bc2612}{#1}"), pa("\\maroonA", "\\textcolor{##ffbde0}{#1}"), pa("\\maroonB", "\\textcolor{##ff92c6}{#1}"), pa("\\maroonC", "\\textcolor{##ed5fa6}{#1}"), pa("\\maroonD", "\\textcolor{##ca337c}{#1}"), pa("\\maroonE", "\\textcolor{##9e034e}{#1}"), pa("\\purpleA", "\\textcolor{##ddd7ff}{#1}"), pa("\\purpleB", "\\textcolor{##c6b9fc}{#1}"), pa("\\purpleC", "\\textcolor{##aa87ff}{#1}"), pa("\\purpleD", "\\textcolor{##7854ab}{#1}"), pa("\\purpleE", "\\textcolor{##543b78}{#1}"), pa("\\mintA", "\\textcolor{##f5f9e8}{#1}"), pa("\\mintB", "\\textcolor{##edf2df}{#1}"), pa("\\mintC", "\\textcolor{##e0e5cc}{#1}"), pa("\\grayA", "\\textcolor{##f6f7f7}{#1}"), pa("\\grayB", "\\textcolor{##f0f1f2}{#1}"), pa("\\grayC", "\\textcolor{##e3e5e6}{#1}"), pa("\\grayD", "\\textcolor{##d6d8da}{#1}"), pa("\\grayE", "\\textcolor{##babec2}{#1}"), pa("\\grayF", "\\textcolor{##888d93}{#1}"), pa("\\grayG", "\\textcolor{##626569}{#1}"), pa("\\grayH", "\\textcolor{##3b3e40}{#1}"), pa("\\grayI", "\\textcolor{##21242c}{#1}"), pa("\\kaBlue", "\\textcolor{##314453}{#1}"), pa("\\kaGreen", "\\textcolor{##71B307}{#1}");

var ya = {

"\\relax": !0,

"^": !0,

\_: !0,

"\\limits": !0,

"\\nolimits": !0

},

wa = function () {

function t(t, e, r) {

this.settings = void 0, this.expansionCount = void 0, this.lexer = void 0, this.macros = void 0, this.stack = void 0, this.mode = void 0, this.settings = e, this.expansionCount = 0, this.feed(t), this.macros = new ma(ua, e.macros), this.mode = r, this.stack = []

}

var e = t.prototype;

return e.feed = function (t) {

this.lexer = new la(t, this.settings)

}, e.switchMode = function (t) {

this.mode = t

}, e.beginGroup = function () {

this.macros.beginGroup()

}, e.endGroup = function () {

this.macros.endGroup()

}, e.future = function () {

return 0 === this.stack.length && this.pushToken(this.lexer.lex()), this.stack[this.stack.length - 1]

}, e.popToken = function () {

return this.future(), this.stack.pop()

}, e.pushToken = function (t) {

this.stack.push(t)

}, e.pushTokens = function (t) {

var e;

(e = this.stack).push.apply(e, t)

}, e.consumeSpaces = function () {

for (;;) {

if (" " !== this.future().text) break;

this.stack.pop()

}

}, e.consumeArgs = function (t) {

for (var e = [], r = 0; r < t; ++r) {

this.consumeSpaces();

var a = this.popToken();

if ("{" === a.text) {

for (var n = [], i = 1; 0 !== i;) {

var s = this.popToken();

if (n.push(s), "{" === s.text) ++i;

else if ("}" === s.text) --i;

else if ("EOF" === s.text) throw new o("End of input in macro argument", a)

}

n.pop(), n.reverse(), e[r] = n

} else {

if ("EOF" === a.text) throw new o("End of input expecting macro argument");

e[r] = [a]

}

}

return e

}, e.expandOnce = function () {

var t = this.popToken(),

e = t.text,

r = this.\_getExpansion(e);

if (null == r) return this.pushToken(t), t;

if (this.expansionCount++, this.expansionCount > this.settings.maxExpand) throw new o("Too many expansions: infinite loop or need to increase maxExpand setting");

var a = r.tokens;

if (r.numArgs)

for (var n = this.consumeArgs(r.numArgs), i = (a = a.slice()).length - 1; i >= 0; --i) {

var s = a[i];

if ("#" === s.text) {

if (0 === i) throw new o("Incomplete placeholder at end of macro body", s);

if ("#" === (s = a[--i]).text) a.splice(i + 1, 1);

else {

if (!/^[1-9]$/.test(s.text)) throw new o("Not a valid argument number", s);

var h;

(h = a).splice.apply(h, [i, 2].concat(n[+s.text - 1]))

}

}

}

return this.pushTokens(a), a

}, e.expandAfterFuture = function () {

return this.expandOnce(), this.future()

}, e.expandNextToken = function () {

for (;;) {

var t = this.expandOnce();

if (t instanceof n) {

if ("\\relax" !== t.text) return this.stack.pop();

this.stack.pop()

}

}

throw new Error

}, e.expandMacro = function (t) {

if (this.macros.get(t)) {

var e = [],

r = this.stack.length;

for (this.pushToken(new n(t)); this.stack.length > r;) {

this.expandOnce() instanceof n && e.push(this.stack.pop())

}

return e

}

}, e.expandMacroAsText = function (t) {

var e = this.expandMacro(t);

return e ? e.map(function (t) {

return t.text

}).join("") : e

}, e.\_getExpansion = function (t) {

var e = this.macros.get(t);

if (null == e) return e;

var r = "function" == typeof e ? e(this) : e;

if ("string" == typeof r) {

var a = 0;

if (-1 !== r.indexOf("#"))

for (var n = r.replace(/##/g, ""); - 1 !== n.indexOf("#" + (a + 1));) ++a;

for (var i = new la(r, this.settings), o = [], s = i.lex();

"EOF" !== s.text;) o.push(s), s = i.lex();

return o.reverse(), {

tokens: o,

numArgs: a

}

}

return r

}, e.isDefined = function (t) {

return this.macros.has(t) || ia.hasOwnProperty(t) || j.math.hasOwnProperty(t) || j.text.hasOwnProperty(t) || ya.hasOwnProperty(t)

}, t

}(),

ka = {

"\u0301": {

text: "\\'",

math: "\\acute"

},

"\u0300": {

text: "\\`",

math: "\\grave"

},

"\u0308": {

text: '\\"',

math: "\\ddot"

},

"\u0303": {

text: "\\~",

math: "\\tilde"

},

"\u0304": {

text: "\\=",

math: "\\bar"

},

"\u0306": {

text: "\\u",

math: "\\breve"

},

"\u030c": {

text: "\\v",

math: "\\check"

},

"\u0302": {

text: "\\^",

math: "\\hat"

},

"\u0307": {

text: "\\.",

math: "\\dot"

},

"\u030a": {

text: "\\r",

math: "\\mathring"

},

"\u030b": {

text: "\\H"

}

},

Sa = {

"\xe1": "a\u0301",

"\xe0": "a\u0300",

"\xe4": "a\u0308",

"\u01df": "a\u0308\u0304",

"\xe3": "a\u0303",

"\u0101": "a\u0304",

"\u0103": "a\u0306",

"\u1eaf": "a\u0306\u0301",

"\u1eb1": "a\u0306\u0300",

"\u1eb5": "a\u0306\u0303",

"\u01ce": "a\u030c",

"\xe2": "a\u0302",

"\u1ea5": "a\u0302\u0301",

"\u1ea7": "a\u0302\u0300",

"\u1eab": "a\u0302\u0303",

"\u0227": "a\u0307",

"\u01e1": "a\u0307\u0304",

"\xe5": "a\u030a",

"\u01fb": "a\u030a\u0301",

"\u1e03": "b\u0307",

"\u0107": "c\u0301",

"\u010d": "c\u030c",

"\u0109": "c\u0302",

"\u010b": "c\u0307",

"\u010f": "d\u030c",

"\u1e0b": "d\u0307",

"\xe9": "e\u0301",

"\xe8": "e\u0300",

"\xeb": "e\u0308",

"\u1ebd": "e\u0303",

"\u0113": "e\u0304",

"\u1e17": "e\u0304\u0301",

"\u1e15": "e\u0304\u0300",

"\u0115": "e\u0306",

"\u011b": "e\u030c",

"\xea": "e\u0302",

"\u1ebf": "e\u0302\u0301",

"\u1ec1": "e\u0302\u0300",

"\u1ec5": "e\u0302\u0303",

"\u0117": "e\u0307",

"\u1e1f": "f\u0307",

"\u01f5": "g\u0301",

"\u1e21": "g\u0304",

"\u011f": "g\u0306",

"\u01e7": "g\u030c",

"\u011d": "g\u0302",

"\u0121": "g\u0307",

"\u1e27": "h\u0308",

"\u021f": "h\u030c",

"\u0125": "h\u0302",

"\u1e23": "h\u0307",

"\xed": "i\u0301",

"\xec": "i\u0300",

"\xef": "i\u0308",

"\u1e2f": "i\u0308\u0301",

"\u0129": "i\u0303",

"\u012b": "i\u0304",

"\u012d": "i\u0306",

"\u01d0": "i\u030c",

"\xee": "i\u0302",

"\u01f0": "j\u030c",

"\u0135": "j\u0302",

"\u1e31": "k\u0301",

"\u01e9": "k\u030c",

"\u013a": "l\u0301",

"\u013e": "l\u030c",

"\u1e3f": "m\u0301",

"\u1e41": "m\u0307",

"\u0144": "n\u0301",

"\u01f9": "n\u0300",

"\xf1": "n\u0303",

"\u0148": "n\u030c",

"\u1e45": "n\u0307",

"\xf3": "o\u0301",

"\xf2": "o\u0300",

"\xf6": "o\u0308",

"\u022b": "o\u0308\u0304",

"\xf5": "o\u0303",

"\u1e4d": "o\u0303\u0301",

"\u1e4f": "o\u0303\u0308",

"\u022d": "o\u0303\u0304",

"\u014d": "o\u0304",

"\u1e53": "o\u0304\u0301",

"\u1e51": "o\u0304\u0300",

"\u014f": "o\u0306",

"\u01d2": "o\u030c",

"\xf4": "o\u0302",

"\u1ed1": "o\u0302\u0301",

"\u1ed3": "o\u0302\u0300",

"\u1ed7": "o\u0302\u0303",

"\u022f": "o\u0307",

"\u0231": "o\u0307\u0304",

"\u0151": "o\u030b",

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"\u015b": "s\u0301",

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"\u0161": "s\u030c",

"\u1e67": "s\u030c\u0307",

"\u015d": "s\u0302",

"\u1e61": "s\u0307",

"\u1e97": "t\u0308",

"\u0165": "t\u030c",

"\u1e6b": "t\u0307",

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"\u01d4": "u\u030c",

"\xfb": "u\u0302",

"\u016f": "u\u030a",

"\u0171": "u\u030b",

"\u1e7d": "v\u0303",

"\u1e83": "w\u0301",

"\u1e81": "w\u0300",

"\u1e85": "w\u0308",

"\u0175": "w\u0302",

"\u1e87": "w\u0307",

"\u1e98": "w\u030a",

"\u1e8d": "x\u0308",

"\u1e8b": "x\u0307",

"\xfd": "y\u0301",

"\u1ef3": "y\u0300",

"\xff": "y\u0308",

"\u1ef9": "y\u0303",

"\u0233": "y\u0304",

"\u0177": "y\u0302",

"\u1e8f": "y\u0307",

"\u1e99": "y\u030a",

"\u017a": "z\u0301",

"\u017e": "z\u030c",

"\u1e91": "z\u0302",

"\u017c": "z\u0307",

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"\xc0": "A\u0300",

"\xc4": "A\u0308",

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"\xc3": "A\u0303",

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"\u0102": "A\u0306",

"\u1eae": "A\u0306\u0301",

"\u1eb0": "A\u0306\u0300",

"\u1eb4": "A\u0306\u0303",

"\u01cd": "A\u030c",

"\xc2": "A\u0302",

"\u1ea4": "A\u0302\u0301",

"\u1ea6": "A\u0302\u0300",

"\u1eaa": "A\u0302\u0303",

"\u0226": "A\u0307",

"\u01e0": "A\u0307\u0304",

"\xc5": "A\u030a",

"\u01fa": "A\u030a\u0301",

"\u1e02": "B\u0307",

"\u0106": "C\u0301",

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"\u0108": "C\u0302",

"\u010a": "C\u0307",

"\u010e": "D\u030c",

"\u1e0a": "D\u0307",

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"\xc8": "E\u0300",

"\xcb": "E\u0308",

"\u1ebc": "E\u0303",

"\u0112": "E\u0304",

"\u1e16": "E\u0304\u0301",

"\u1e14": "E\u0304\u0300",

"\u0114": "E\u0306",

"\u011a": "E\u030c",

"\xca": "E\u0302",

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"\u1ec0": "E\u0302\u0300",

"\u1ec4": "E\u0302\u0303",

"\u0116": "E\u0307",

"\u1e1e": "F\u0307",

"\u01f4": "G\u0301",

"\u1e20": "G\u0304",

"\u011e": "G\u0306",

"\u01e6": "G\u030c",

"\u011c": "G\u0302",

"\u0120": "G\u0307",

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"\u0124": "H\u0302",

"\u1e22": "H\u0307",

"\xcd": "I\u0301",

"\xcc": "I\u0300",

"\xcf": "I\u0308",

"\u1e2e": "I\u0308\u0301",

"\u0128": "I\u0303",

"\u012a": "I\u0304",

"\u012c": "I\u0306",

"\u01cf": "I\u030c",

"\xce": "I\u0302",

"\u0130": "I\u0307",

"\u0134": "J\u0302",

"\u1e30": "K\u0301",

"\u01e8": "K\u030c",

"\u0139": "L\u0301",

"\u013d": "L\u030c",

"\u1e3e": "M\u0301",

"\u1e40": "M\u0307",

"\u0143": "N\u0301",

"\u01f8": "N\u0300",

"\xd1": "N\u0303",

"\u0147": "N\u030c",

"\u1e44": "N\u0307",

"\xd3": "O\u0301",

"\xd2": "O\u0300",

"\xd6": "O\u0308",

"\u022a": "O\u0308\u0304",

"\xd5": "O\u0303",

"\u1e4c": "O\u0303\u0301",

"\u1e4e": "O\u0303\u0308",

"\u022c": "O\u0303\u0304",

"\u014c": "O\u0304",

"\u1e52": "O\u0304\u0301",

"\u1e50": "O\u0304\u0300",

"\u014e": "O\u0306",

"\u01d1": "O\u030c",

"\xd4": "O\u0302",

"\u1ed0": "O\u0302\u0301",

"\u1ed2": "O\u0302\u0300",

"\u1ed6": "O\u0302\u0303",

"\u022e": "O\u0307",

"\u0230": "O\u0307\u0304",

"\u0150": "O\u030b",

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"\u1e56": "P\u0307",

"\u0154": "R\u0301",

"\u0158": "R\u030c",

"\u1e58": "R\u0307",

"\u015a": "S\u0301",

"\u1e64": "S\u0301\u0307",

"\u0160": "S\u030c",

"\u1e66": "S\u030c\u0307",

"\u015c": "S\u0302",

"\u1e60": "S\u0307",

"\u0164": "T\u030c",

"\u1e6a": "T\u0307",

"\xda": "U\u0301",

"\xd9": "U\u0300",

"\xdc": "U\u0308",

"\u01d7": "U\u0308\u0301",

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"\u1e78": "U\u0303\u0301",

"\u016a": "U\u0304",

"\u1e7a": "U\u0304\u0308",

"\u016c": "U\u0306",

"\u01d3": "U\u030c",

"\xdb": "U\u0302",

"\u016e": "U\u030a",

"\u0170": "U\u030b",

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"\u1e84": "W\u0308",

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"\u1e86": "W\u0307",

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"\xdd": "Y\u0301",

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"\u0178": "Y\u0308",

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"\u0176": "Y\u0302",

"\u1e8e": "Y\u0307",

"\u0179": "Z\u0301",

"\u017d": "Z\u030c",

"\u1e90": "Z\u0302",

"\u017b": "Z\u0307",

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"\u1f70": "\u03b1\u0300",

"\u1fb1": "\u03b1\u0304",

"\u1fb0": "\u03b1\u0306",

"\u03ad": "\u03b5\u0301",

"\u1f72": "\u03b5\u0300",

"\u03ae": "\u03b7\u0301",

"\u1f74": "\u03b7\u0300",

"\u03af": "\u03b9\u0301",

"\u1f76": "\u03b9\u0300",

"\u03ca": "\u03b9\u0308",

"\u0390": "\u03b9\u0308\u0301",

"\u1fd2": "\u03b9\u0308\u0300",

"\u1fd1": "\u03b9\u0304",

"\u1fd0": "\u03b9\u0306",

"\u03cc": "\u03bf\u0301",

"\u1f78": "\u03bf\u0300",

"\u03cd": "\u03c5\u0301",

"\u1f7a": "\u03c5\u0300",

"\u03cb": "\u03c5\u0308",

"\u03b0": "\u03c5\u0308\u0301",

"\u1fe2": "\u03c5\u0308\u0300",

"\u1fe1": "\u03c5\u0304",

"\u1fe0": "\u03c5\u0306",

"\u03ce": "\u03c9\u0301",

"\u1f7c": "\u03c9\u0300",

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"\u1fea": "\u03a5\u0300",

"\u03ab": "\u03a5\u0308",

"\u1fe9": "\u03a5\u0304",

"\u1fe8": "\u03a5\u0306",

"\u038f": "\u03a9\u0301",

"\u1ffa": "\u03a9\u0300"

},

Ma = function () {

function t(t, e) {

this.mode = void 0, this.gullet = void 0, this.settings = void 0, this.leftrightDepth = void 0, this.nextToken = void 0, this.mode = "math", this.gullet = new wa(t, e, this.mode), this.settings = e, this.leftrightDepth = 0

}

var e = t.prototype;

return e.expect = function (t, e) {

if (void 0 === e && (e = !0), this.fetch().text !== t) throw new o("Expected '" + t + "', got '" + this.fetch().text + "'", this.fetch());

e && this.consume()

}, e.consume = function () {

this.nextToken = null

}, e.fetch = function () {

return null == this.nextToken && (this.nextToken = this.gullet.expandNextToken()), this.nextToken

}, e.switchMode = function (t) {

this.mode = t, this.gullet.switchMode(t)

}, e.parse = function () {

this.gullet.beginGroup(), this.settings.colorIsTextColor && this.gullet.macros.set("\\color", "\\textcolor");

var t = this.parseExpression(!1);

return this.expect("EOF"), this.gullet.endGroup(), t

}, e.parseExpression = function (e, r) {

for (var a = [];;) {

"math" === this.mode && this.consumeSpaces();

var n = this.fetch();

if (-1 !== t.endOfExpression.indexOf(n.text)) break;

if (r && n.text === r) break;

if (e && ia[n.text] && ia[n.text].infix) break;

var i = this.parseAtom(r);

if (!i) break;

a.push(i)

}

return "text" === this.mode && this.formLigatures(a), this.handleInfixNodes(a)

}, e.handleInfixNodes = function (t) {

for (var e, r = -1, a = 0; a < t.length; a++) {

var n = Vt(t[a], "infix");

if (n) {

if (-1 !== r) throw new o("only one infix operator per group", n.token);

r = a, e = n.replaceWith

}

}

if (-1 !== r && e) {

var i, s, h = t.slice(0, r),

l = t.slice(r + 1);

return i = 1 === h.length && "ordgroup" === h[0].type ? h[0] : {

type: "ordgroup",

mode: this.mode,

body: h

}, s = 1 === l.length && "ordgroup" === l[0].type ? l[0] : {

type: "ordgroup",

mode: this.mode,

body: l

}, ["\\\\abovefrac" === e ? this.callFunction(e, [i, t[r], s], []) : this.callFunction(e, [i, s], [])]

}

return t

}, e.handleSupSubscript = function (e) {

var r = this.fetch(),

a = r.text;

this.consume();

var n = this.parseGroup(e, !1, t.SUPSUB\_GREEDINESS, void 0, void 0, !0);

if (!n) throw new o("Expected group after '" + a + "'", r);

return n

}, e.formatUnsupportedCmd = function (t) {

for (var e = [], r = 0; r < t.length; r++) e.push({

type: "textord",

mode: "text",

text: t[r]

});

var a = {

type: "text",

mode: this.mode,

body: e

};

return {

type: "color",

mode: this.mode,

color: this.settings.errorColor,

body: [a]

}

}, e.parseAtom = function (t) {

var e, r, a = this.parseGroup("atom", !1, null, t);

if ("text" === this.mode) return a;

for (;;) {

this.consumeSpaces();

var n = this.fetch();

if ("\\limits" === n.text || "\\nolimits" === n.text) {

var i = Vt(a, "op");

if (i) {

var s = "\\limits" === n.text;

i.limits = s, i.alwaysHandleSupSub = !0

} else {

if (!(i = Vt(a, "operatorname")) || !i.alwaysHandleSupSub) throw new o("Limit controls must follow a math operator", n);

var h = "\\limits" === n.text;

i.limits = h

}

this.consume()

} else if ("^" === n.text) {

if (e) throw new o("Double superscript", n);

e = this.handleSupSubscript("superscript")

} else if ("\_" === n.text) {

if (r) throw new o("Double subscript", n);

r = this.handleSupSubscript("subscript")

} else {

if ("'" !== n.text) break;

if (e) throw new o("Double superscript", n);

var l = {

type: "textord",

mode: this.mode,

text: "\\prime"

},

m = [l];

for (this.consume();

"'" === this.fetch().text;) m.push(l), this.consume();

"^" === this.fetch().text && m.push(this.handleSupSubscript("superscript")), e = {

type: "ordgroup",

mode: this.mode,

body: m

}

}

}

return e || r ? {

type: "supsub",

mode: this.mode,

base: a,

sup: e,

sub: r

} : a

}, e.parseFunction = function (t, e, r) {

var a = this.fetch(),

n = a.text,

i = ia[n];

if (!i) return null;

if (this.consume(), null != r && i.greediness <= r) throw new o("Got function '" + n + "' with no arguments" + (e ? " as " + e : ""), a);

if ("text" === this.mode && !i.allowedInText) throw new o("Can't use function '" + n + "' in text mode", a);

if ("math" === this.mode && !1 === i.allowedInMath) throw new o("Can't use function '" + n + "' in math mode", a);

var s = this.parseArguments(n, i),

h = s.args,

l = s.optArgs;

return this.callFunction(n, h, l, a, t)

}, e.callFunction = function (t, e, r, a, n) {

var i = {

funcName: t,

parser: this,

token: a,

breakOnTokenText: n

},

s = ia[t];

if (s && s.handler) return s.handler(i, e, r);

throw new o("No function handler for " + t)

}, e.parseArguments = function (t, e) {

var r = e.numArgs + e.numOptionalArgs;

if (0 === r) return {

args: [],

optArgs: []

};

for (var a = e.greediness, n = [], i = [], s = 0; s < r; s++) {

var h = e.argTypes && e.argTypes[s],

l = s < e.numOptionalArgs,

m = s > 0 && !l || 0 === s && !l && "math" === this.mode,

c = this.parseGroupOfType("argument to '" + t + "'", h, l, a, m);

if (!c) {

if (l) {

i.push(null);

continue

}

throw new o("Expected group after '" + t + "'", this.fetch())

}(l ? i : n).push(c)

}

return {

args: n,

optArgs: i

}

}, e.parseGroupOfType = function (t, e, r, a, n) {

switch (e) {

case "color":

return n && this.consumeSpaces(), this.parseColorGroup(r);

case "size":

return n && this.consumeSpaces(), this.parseSizeGroup(r);

case "url":

return this.parseUrlGroup(r, n);

case "math":

case "text":

return this.parseGroup(t, r, a, void 0, e, n);

case "hbox":

var i = this.parseGroup(t, r, a, void 0, "text", n);

return i ? {

type: "styling",

mode: i.mode,

body: [i],

style: "text"

} : i;

case "raw":

if (n && this.consumeSpaces(), r && "{" === this.fetch().text) return null;

var s = this.parseStringGroup("raw", r, !0);

if (s) return {

type: "raw",

mode: "text",

string: s.text

};

throw new o("Expected raw group", this.fetch());

case "original":

case null:

case void 0:

return this.parseGroup(t, r, a, void 0, void 0, n);

default:

throw new o("Unknown group type as " + t, this.fetch())

}

}, e.consumeSpaces = function () {

for (;

" " === this.fetch().text;) this.consume()

}, e.parseStringGroup = function (t, e, r) {

var a = e ? "[" : "{",

n = e ? "]" : "}",

i = this.fetch();

if (i.text !== a) {

if (e) return null;

if (r && "EOF" !== i.text && /[^{}[\]]/.test(i.text)) return this.consume(), i

}

var s = this.mode;

this.mode = "text", this.expect(a);

for (var h, l = "", m = this.fetch(), c = 0, u = m;

(h = this.fetch()).text !== n || r && c > 0;) {

switch (h.text) {

case "EOF":

throw new o("Unexpected end of input in " + t, m.range(u, l));

case a:

c++;

break;

case n:

c--

}

l += (u = h).text, this.consume()

}

return this.expect(n), this.mode = s, m.range(u, l)

}, e.parseRegexGroup = function (t, e) {

var r = this.mode;

this.mode = "text";

for (var a, n = this.fetch(), i = n, s = "";

"EOF" !== (a = this.fetch()).text && t.test(s + a.text);) s += (i = a).text, this.consume();

if ("" === s) throw new o("Invalid " + e + ": '" + n.text + "'", n);

return this.mode = r, n.range(i, s)

}, e.parseColorGroup = function (t) {

var e = this.parseStringGroup("color", t);

if (!e) return null;

var r = /^(#[a-f0-9]{3}|#?[a-f0-9]{6}|[a-z]+)$/i.exec(e.text);

if (!r) throw new o("Invalid color: '" + e.text + "'", e);

var a = r[0];

return /^[0-9a-f]{6}$/i.test(a) && (a = "#" + a), {

type: "color-token",

mode: this.mode,

color: a

}

}, e.parseSizeGroup = function (t) {

var e, r = !1;

if (!(e = t || "{" === this.fetch().text ? this.parseStringGroup("size", t) : this.parseRegexGroup(/^[-+]? \*(?:$|\d+|\d+\.\d\*|\.\d\*) \*[a-z]{0,2} \*$/, "size"))) return null;

t || 0 !== e.text.length || (e.text = "0pt", r = !0);

var a = /([-+]?) \*(\d+(?:\.\d\*)?|\.\d+) \*([a-z]{2})/.exec(e.text);

if (!a) throw new o("Invalid size: '" + e.text + "'", e);

var n = {

number: +(a[1] + a[2]),

unit: a[3]

};

if (!At(n)) throw new o("Invalid unit: '" + n.unit + "'", e);

return {

type: "size",

mode: this.mode,

value: n,

isBlank: r

}

}, e.parseUrlGroup = function (t, e) {

this.gullet.lexer.setCatcode("%", 13);

var r = this.parseStringGroup("url", t, !0);

if (this.gullet.lexer.setCatcode("%", 14), !r) return null;

var a = r.text.replace(/\\([#$%&~\_^{}])/g, "$1");

return {

type: "url",

mode: this.mode,

url: a

}

}, e.parseGroup = function (e, r, n, i, s, h) {

var l = this.mode;

s && this.switchMode(s), h && this.consumeSpaces();

var m, c = this.fetch(),

u = c.text;

if (r ? "[" === u : "{" === u || "\\begingroup" === u) {

this.consume();

var p = t.endOfGroup[u];

this.gullet.beginGroup();

var d = this.parseExpression(!1, p),

f = this.fetch();

this.expect(p), this.gullet.endGroup(), m = {

type: "ordgroup",

mode: this.mode,

loc: a.range(c, f),

body: d,

semisimple: "\\begingroup" === u || void 0

}

} else if (r) m = null;

else if (null == (m = this.parseFunction(i, e, n) || this.parseSymbol()) && "\\" === u[0] && !ya.hasOwnProperty(u)) {

if (this.settings.throwOnError) throw new o("Undefined control sequence: " + u, c);

m = this.formatUnsupportedCmd(u), this.consume()

}

return s && this.switchMode(l), m

}, e.formLigatures = function (t) {

for (var e = t.length - 1, r = 0; r < e; ++r) {

var n = t[r],

i = n.text;

"-" === i && "-" === t[r + 1].text && (r + 1 < e && "-" === t[r + 2].text ? (t.splice(r, 3, {

type: "textord",

mode: "text",

loc: a.range(n, t[r + 2]),

text: "---"

}), e -= 2) : (t.splice(r, 2, {

type: "textord",

mode: "text",

loc: a.range(n, t[r + 1]),

text: "--"

}), e -= 1)), "'" !== i && "`" !== i || t[r + 1].text !== i || (t.splice(r, 2, {

type: "textord",

mode: "text",

loc: a.range(n, t[r + 1]),

text: i + i

}), e -= 1)

}

}, e.parseSymbol = function () {

var t = this.fetch(),

e = t.text;

if (/^\\verb[^a-zA-Z]/.test(e)) {

this.consume();

var r = e.slice(5),

n = "\*" === r.charAt(0);

if (n && (r = r.slice(1)), r.length < 2 || r.charAt(0) !== r.slice(-1)) throw new o("\\verb assertion failed --\n please report what input caused this bug");

return {

type: "verb",

mode: "text",

body: r = r.slice(1, -1),

star: n

}

}

Sa.hasOwnProperty(e[0]) && !j[this.mode][e[0]] && (this.settings.strict && "math" === this.mode && this.settings.reportNonstrict("unicodeTextInMathMode", 'Accented Unicode text character "' + e[0] + '" used in math mode', t), e = Sa[e[0]] + e.substr(1));

var i, s = sa.exec(e);

if (s && ("i" === (e = e.substring(0, s.index)) ? e = "\u0131" : "j" === e && (e = "\u0237")), j[this.mode][e]) {

this.settings.strict && "math" === this.mode && "\xc7\xd0\xde\xe7\xfe".indexOf(e) >= 0 && this.settings.reportNonstrict("unicodeTextInMathMode", 'Latin-1/Unicode text character "' + e[0] + '" used in math mode', t);

var h, l = j[this.mode][e].group,

m = a.range(t);

if (W.hasOwnProperty(l)) {

var c = l;

h = {

type: "atom",

mode: this.mode,

family: c,

loc: m,

text: e

}

} else h = {

type: l,

mode: this.mode,

loc: m,

text: e

};

i = h

} else {

if (!(e.charCodeAt(0) >= 128)) return null;

this.settings.strict && (M(e.charCodeAt(0)) ? "math" === this.mode && this.settings.reportNonstrict("unicodeTextInMathMode", 'Unicode text character "' + e[0] + '" used in math mode', t) : this.settings.reportNonstrict("unknownSymbol", 'Unrecognized Unicode character "' + e[0] + '" (' + e.charCodeAt(0) + ")", t)), i = {

type: "textord",

mode: "text",

loc: a.range(t),

text: e

}

}

if (this.consume(), s)

for (var u = 0; u < s[0].length; u++) {

var p = s[0][u];

if (!ka[p]) throw new o("Unknown accent ' " + p + "'", t);

var d = ka[p][this.mode];

if (!d) throw new o("Accent " + p + " unsupported in " + this.mode + " mode", t);

i = {

type: "accent",

mode: this.mode,

loc: a.range(t),

label: d,

isStretchy: !1,

isShifty: !0,

base: i

}

}

return i

}, t

}();

Ma.endOfExpression = ["}", "\\endgroup", "\\end", "\\right", "&"], Ma.endOfGroup = {

"[": "]",

"{": "}",

"\\begingroup": "\\endgroup"

}, Ma.SUPSUB\_GREEDINESS = 1;

var za = function (t, e) {

if (!("string" == typeof t || t instanceof String)) throw new TypeError("KaTeX can only parse string typed expression");

var r = new Ma(t, e);

delete r.gullet.macros.current["\\df@tag"];

var a = r.parse();

if (r.gullet.macros.get("\\df@tag")) {

if (!e.displayMode) throw new o("\\tag works only in display equations");

r.gullet.feed("\\df@tag"), a = [{

type: "tag",

mode: "text",

body: a,

tag: r.parse()

}]

}

return a

},

Aa = function (t, e, r) {

e.textContent = "";

var a = Ba(t, r).toNode();

e.appendChild(a)

};

"undefined" != typeof document && "CSS1Compat" !== document.compatMode && ("undefined" != typeof console && console.warn("Warning: KaTeX doesn't work in quirks mode. Make sure your website has a suitable doctype."), Aa = function () {

throw new o("KaTeX doesn't work in quirks mode.")

});

var Ta = function (t, e, r) {

if (r.throwOnError || !(t instanceof o)) throw t;

var a = Dt.makeSpan(["katex-error"], [new E(e)]);

return a.setAttribute("title", t.toString()), a.setAttribute("style", "color:" + r.errorColor), a

},

Ba = function (t, e) {

var r = new u(e);

try {

var a = za(t, r);

return Be(a, t, r)

} catch (e) {

return Ta(e, t, r)

}

},

Ca = {

version: "0.11.1",

render: Aa,

renderToString: function (t, e) {

return Ba(t, e).toMarkup()

},

ParseError: o,

\_\_parse: function (t, e) {

var r = new u(e);

return za(t, r)

},

\_\_renderToDomTree: Ba,

\_\_renderToHTMLTree: function (t, e) {

var r = new u(e);

try {

return function (t, e, r) {

var a = de(t, Ae(r)),

n = Dt.makeSpan(["katex"], [a]);

return Te(n, r)

}(za(t, r), 0, r)

} catch (e) {

return Ta(e, t, r)

}

},

\_\_setFontMetrics: function (t, e) {

F[t] = e

},

\_\_defineSymbol: $,

\_\_defineMacro: pa,

\_\_domTree: {

Span: N,

Anchor: I,

SymbolNode: E,

SvgNode: L,

PathNode: H,

LineNode: P

}

};

e.default = Ca

}]).default

});