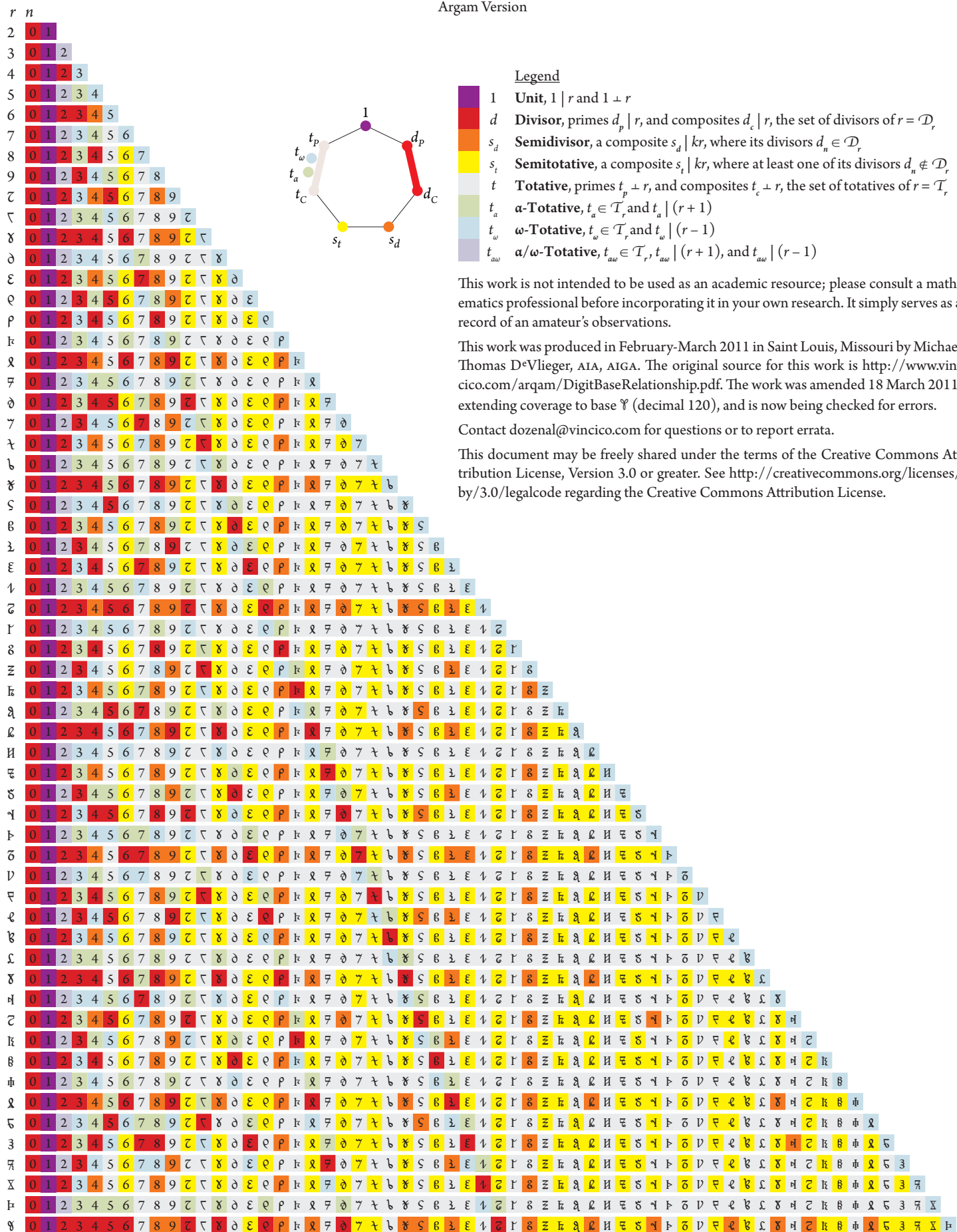


Relationship of Digits n to Bases r

Argam Version



Relationship of Digits n to Bases r

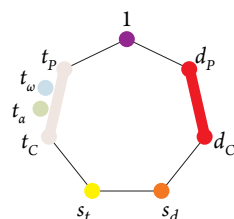
[illegible]

Relationship of Digits n to Bases r

Argam Version

Legend

- 1 Unit, $1 \mid r$ and $1 \perp r$
- d Divisor, primes $d_p \mid r$, and composites $d_c \mid r$, the set of divisors of $r = \mathcal{D}_r$
- s_d Semidivisor, a composite $s_d \mid kr$, where its divisors $d_n \in \mathcal{D}_r$
- s_t Semitotative, a composite $s_t \mid kr$, where at least one of its divisors $d_n \notin \mathcal{D}_r$
- t Totative, primes $t_p \perp r$, and composites $t_c \perp r$, the set of totatives of $r = \mathcal{T}_r$
- t_a α -Totative, $t_a \in \mathcal{T}_r$ and $t_a \mid (r+1)$
- t_ω ω -Totative, $t_\omega \in \mathcal{T}_r$ and $t_\omega \mid (r-1)$
- t_{aw} α/ω -Totative, $t_{aw} \in \mathcal{T}_r$, $t_{aw} \mid (r+1)$, and $t_{aw} \mid (r-1)$

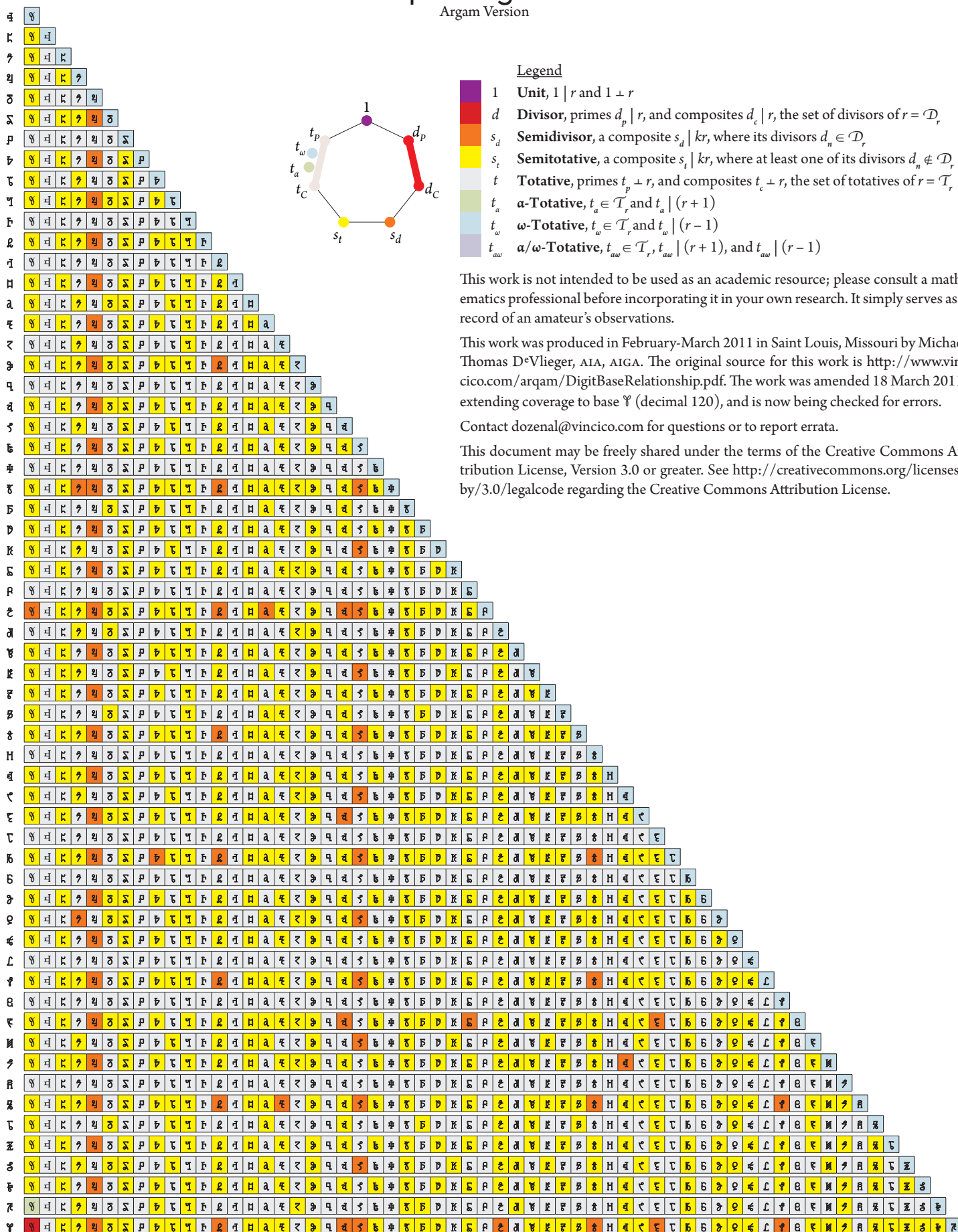


This work is not intended to be used as an academic resource; please consult a mathematics professional before incorporating it in your own research. It simply serves as a record of an amateur's observations.

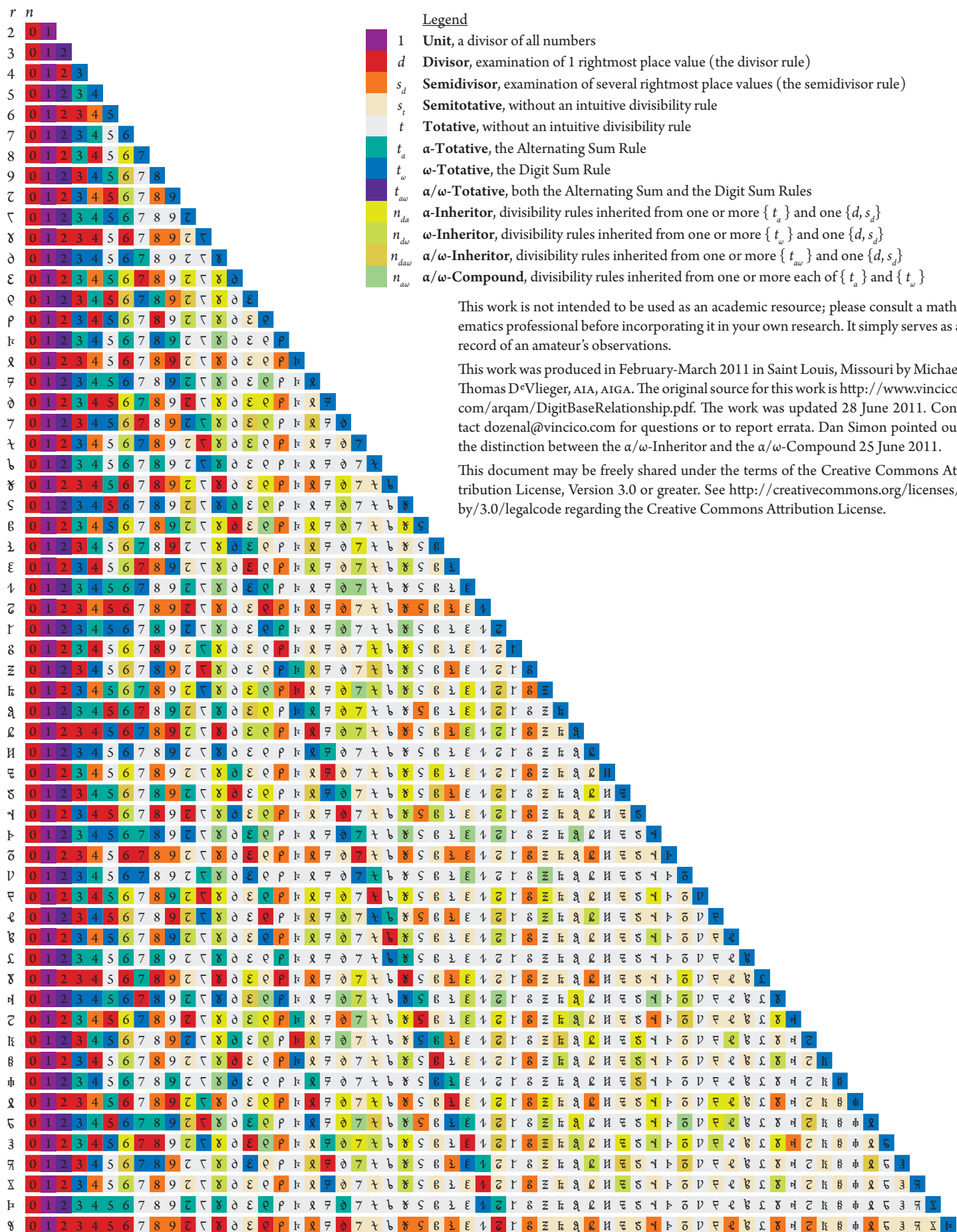
This work was produced in February-March 2011 in Saint Louis, Missouri by Michael Thomas D*Vlieger, AIA, AIGA. The original source for this work is <http://www.vincico.com/arqam/DigitBaseRelationship.pdf>. The work was amended 18 March 2011, extending coverage to base $\mathfrak{Y}$ (decimal 120), and is now being checked for errors.

Contact dozenal@vincico.com for questions or to report errata.

This document may be freely shared under the terms of the Creative Commons Attribution License, Version 3.0 or greater. See <http://creativecommons.org/licenses/by/3.0/legalcode> regarding the Creative Commons Attribution License.

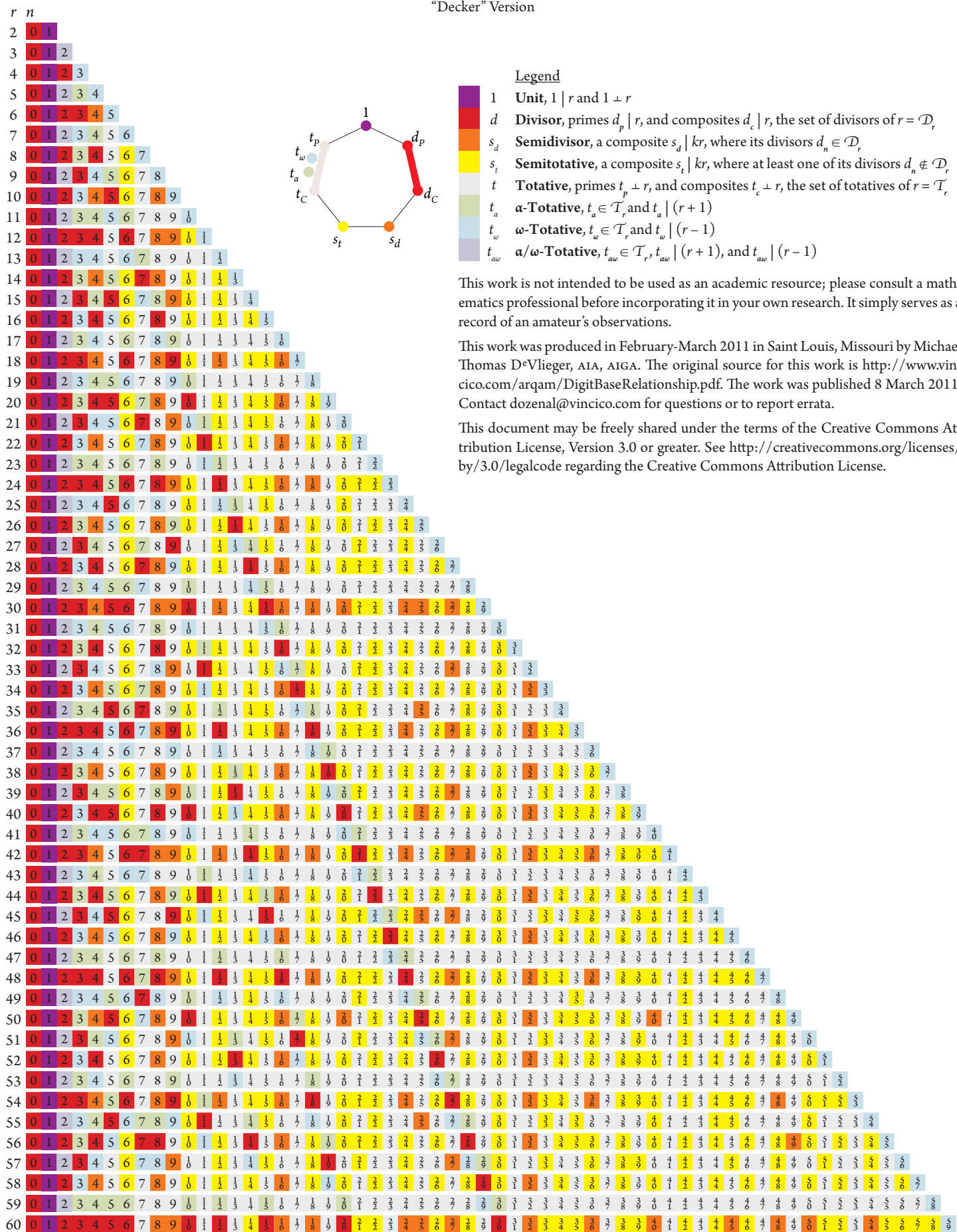


Intuitive Divisibility Rules for Digits n in Bases r



Relationship of Digits n to Bases r

"Decker" Version



This work is not intended to be used as an academic resource; please consult a mathematics professional before incorporating it in your own research. It simply serves as a record of an amateur's observations.

This work was produced in February-March 2011 in Saint Louis, Missouri by Michael Thomas D*Vlieger, AIA, AIGA. The original source for this work is <http://www.vincico.com/arqam/DigitBaseRelationship.pdf>. The work was published 8 March 2011. Contact dozenal@vincico.com for questions or to report errata.

This document may be freely shared under the terms of the Creative Commons Attribution License, Version 3.0 or greater. See <http://creativecommons.org/licenses/by/3.0/legalcode> regarding the Creative Commons Attribution License.

Intuitive Divisibility Rules for Digits n in Bases r

"Decker" Version

