

ƆfÆ'Ātâ€™ Ɔfâ€ Ɔçâ, ¬â,, çƆfÆ'Āçâ, ¬Ā; Ɔfâ€šĀ, Ā¬ƆfÆ'Ātâ€™ ƆfĀçĀçâ€šĀ¬Ā...Ā; ƆfÆ'Āçâ, ¬Ā; Ɔfâ€šĀ, Ā'
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ƆfÆ'Āçâ, ¬Ā; Ɔfâ€šĀ, Ā¹ƆfÆ'Āçâ, ¬Ā¹Ɔfâ€|Āçâ, ¬Ā¹ƆfÆ'Ātâ€™ Ɔfâ€ Ɔçâ, ¬â,, çƆfÆ'Āçâ, ¬Ā; Ɔfâ€šĀ, Ā¬ƆfÆ'Ātâ€™ ƆfĀçĀçâ€šĀ¬Ā...Ā;
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ƆfÆ'Ātâ€™ Ɔfâ€ Ɔçâ, ¬â,, çƆfÆ'Āçâ, ¬Ā; Ɔfâ€šĀ, Ā«ƆfÆ'Ātâ€™ ƆfĀçĀçâ€šĀ¬Ā...Ā; ƆfÆ'Āçâ, ¬Ā; Ɔfâ€šĀ, Ā²ƆfÆ'Āçâ, ¬Ā¹ƆfĀçĀçâ€šĀ
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ĂfÆ'Ă,ÂçĂfĂçĂçâ,-Ă;Ă,Â-ĂfÆ'Ătâ€™Ăfâ€Ăçâ,-â,,çĂfÆ'Ăçâ,-Ă;Ăfâ€šĂ,Â-ĂfÆ'Ătâ
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Ă-Ă...Ă;ĂfÆ'Ăçâ,-Ă;Ăfâ€šĂ,Â^{1/4}ĂfÆ'Ătâ€™Ăfâ€Ăçâ,-â,,çĂfÆ'Ăçâ,-Ă;Ăfâ€šĂ,Â-Ăf
Æ'Ă,ÂçĂfĂçĂçâ,-Ă;Ă,Â-ĂfÆ'Ăçâ,-Ă;ĂfĂçĂçâ€šĂ-Ăçâ€žĂç.com/tiki-

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ĂfÆ'Ătâ€™Ăfâ€Ăçâ,-â,,çĂfÆ'Ăçâ,-Ă;Ăfâ€šĂ,Â-ĂfÆ'Ăçâ,-Ă;ĂfĂçĂçâ€šĂ-Ă...â€œĂfÆ'Ătâ€™
ĂfĂçĂçâ€šĂ-Ă...Ă;ĂfÆ'Ăçâ,-Ă;Ăfâ€šĂ,Â^{1/4}ĂfÆ'Ătâ€™Ăfâ€Ăçâ,-â,,çĂfÆ'Ăçâ,-Ă;Ăfâ€šĂ,Â«
ĂfÆ'Ătâ€™ĂfĂçĂçâ€šĂ-Ă...Ă;ĂfÆ'Ăçâ,-Ă;Ăfâ€šĂ,Â;ĂfÆ'Ăçâ,-Ă;ĂfĂçĂçâ€šĂ-Ă...â€œ
ĂfÆ'Ătâ€™Ăfâ€Ăçâ,-â,,çĂfÆ'Ăçâ,-Ă;Ăfâ€šĂ,Â-ĂfÆ'Ătâ€™ĂfĂçĂçâ€šĂ-Ă...Ă;ĂfÆ'Ă,ÂçĂfĂç
Ăçâ,-Ă;Ă,Â-Ăfâ€¹Ă...â€œĂfÆ'Ătâ€™Ăfâ€Ăçâ,-â,,çĂfÆ'Ăçâ,-Ă;Ăfâ€šĂ,Â³ĂfÆ'Ătâ€™ĂfĂçĂç
â€šĂ-Ă...Ă;ĂfÆ'Ăçâ,-Ă;Ăfâ€šĂ,ÂĂfÆ'Ătâ€™ĂfĂçĂçâ€šĂ-Ă...Ă;ĂfÆ'Ăçâ,-Ă;Ăfâ€šĂ,Â^{1/4}ĂfÆ'Ă
tâ€™Ăfâ€Ăçâ,-â,,çĂfÆ'Ăçâ,-Ă;Ăfâ€šĂ,Â-

ĂfÆ'Ă,ÂçĂfĂçĂçâ,-Ă;Ă,Â-Ăfâ€šĂ,ÂçĂfÆ'Ăçâ,-Ă¹Ăfâ€|Ăçâ,-Ă"ĂfÆ'Ătâ€™Ăfâ€Ăçâ,-â,,çĂfÆ'
Ăçâ,-Ă;Ăfâ€šĂ,Â-ĂfÆ'Ă,ÂçĂfĂçĂçâ,-Ă;Ă,Â-Ăfâ€šĂ,Â¹ĂfÆ'Ătâ€™ĂfĂçĂçâ€šĂ-Ă...Ă;ĂfÆ'Ăçâ
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ÃfÆ'Ãçâ,¬Ã;
Ãfâ€šÃ,Ã«Ãf
Æ'Ãtâ€™ÃfÃ
çÃçâ€šÃ¬Ã
...Ã;ÃfÆ'Ãçâ,
¬Ã;Ãfâ€šÃ,Ã
²ÃfÆ'Ã,ÃçÃfÃ

â€šĂ,Ă,ĂfÆ'Ătâ€™ĂfĂĉĂĉâ€šĂĂĂ...Ă;ĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,Ă°ĂfÆ'Ătâ€™Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉ
â,Ă;Ăfâ€šĂ,Ă«ĂfÆ'Ăĉâ,Ă!ĂfÆ'Ătâ€™ĂfĂĉĂĉâ€šĂĂĂ...Ă;ĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,ĂŸĂfÆ'Ătâ€™
Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,Ă«ĂfÆ'Ă,ĂĉĂfĂĉĂĉâ,Ă;Ă,ĂĂfâ€!Ăĉâ,Ă"ĂfÆ'Ătâ€™ĂfĂĉ
Ăĉâ€šĂĂĂ...Ă;ĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,Ă«ĂfÆ'Ătâ€™Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,ĂĂfÆ'Ă,
ĂĉĂfĂĉĂĉâ,Ă;Ă,ĂĂfĂĉĂĉâ€šĂĂfÆ'Ătâ€™Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,ĂĂfÆ'Ă,ĂĉĂ
fĂĉĂĉâ,Ă;Ă,ĂĂfâ€!Ă,Ă¾ĂfÆ'Ăĉâ,Ă!ĂfĂĉĂĉâ€šĂĂĂ...â€œ

ĂfÆ'Ătâ€™Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,ĂĂfÆ'Ătâ€™ĂfĂĉĂĉâ€šĂĂĂ...Ă;ĂfÆ'Ăĉâ,Ă;Ă
fâ€šĂ,ĂŸĂfÆ'Ă,ĂĉĂfĂĉĂĉâ€šĂĂĂ...Ă;Ăfâ€šĂ,ĂĂfÆ'Ătâ€™Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,
ĂĂfÆ'Ă,ĂĉĂfĂĉĂĉâ,Ă;Ă,ĂĂfâ€šĂ,Ă°ĂfÆ'Ătâ€™Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,Ă-
ĂfÆ'Ă,ĂĉĂfĂĉĂĉâ,Ă;Ă,ĂĂfâ€šĂ,ĂĉĂfÆ'Ătâ€™ĂfĂĉĂĉâ€šĂĂĂ...Ă;ĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,Ă©Ăf
Æ'Ătâ€™Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,Ă«ĂfÆ'Ă,ĂĉĂfĂĉĂĉâ,Ă;Ă,ĂĂfâ€šĂ,Ă¹ĂfÆ'Ăĉâ,Ă-
Ă¹ĂfĂĉĂĉâ€šĂĂfÆ'Ătâ€™Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,Ă«ĂfÆ'Ă,ĂĉĂfĂĉĂĉâ,Ă;Ă,ĂĂf
â€šĂ,Ă¹ĂfÆ'Ătâ€™ĂfĂĉĂĉâ€šĂĂĂ...Ă;ĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,Ă¸:

- ĂfÆ'Ătâ€™Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,ĂªĂfÆ'Ătâ€™ĂfĂĉĂĉâ€š
ĂĂĂ...Ă;ĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,Ă,ĂfÆ'Ătâ€™ĂfĂĉĂĉâ€šĂĂĂ...Ă;ĂfÆ'Ăĉâ,
Ă;Ăfâ€šĂ,Ă°ĂfÆ'Ătâ€™Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,ĂĂfÆ'Ă,Ă
ĉĂfĂĉĂĉâ,Ă;Ă,ĂĂfâ€!Ă,Ă;ĂfÆ'Ătâ€™ĂfĂĉĂĉâ€šĂĂĂ...Ă;ĂfÆ'Ăĉâ,Ă-
;Ăfâ€šĂ,ĂĂ
- ĂfÆ'Ătâ€™Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,ĂĂfÆ'Ăĉâ,Ă!ĂfĂĉĂĉâ
€šĂĂĂ...â€œĂfÆ'Ă,ĂĉĂfĂĉĂĉâ,Ă;Ă,ĂĂfâ€!Ă,Ă¾ĂfÆ'Ătâ€™Ăfâ€ Ăĉâ
,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,Ă-
ĂfÆ'Ă,ĂĉĂfĂĉĂĉâ,Ă;Ă,ĂĂfâ€!Ă,Ă;ĂfÆ'Ătâ€™ĂfĂĉĂĉâ€šĂĂĂ...Ă;ĂfÆ
'Ăĉâ,Ă;Ăfâ€šĂ,Ă¸
- ĂfÆ'Ătâ€™Ăfâ€ Ăĉâ,Ăâ,,ĉĂfÆ'Ăĉâ,Ă;Ăfâ€šĂ,Ă«ĂfÆ'Ăĉâ,Ă!ĂfĂĉĂĉâ
€šĂĂĂĉâ€žĂĉĂfÆ'Ă,ĂĉĂfĂĉĂĉâ,Ă;Ă,ĂĂfâ€!Ăĉâ,Ă"ĂfÆ'Ătâ€™Ăfâ€

ĉĂĉâ,Ă;Ă,Ă
Ăfâ€!Ă,Ă¾Ă
fÆ'Ătâ€™Ăfâ
€ Ăĉâ,Ăâ,,ĉĂ
fÆ'Ăĉâ,Ă;Ă
fâ€šĂ,ĂªĂfÆ'
Ătâ€™ĂfĂĉĂ
ĉâ€šĂĂĂ...Ă;
ĂfÆ'Ăĉâ,Ă;Ă
Ăfâ€šĂ,ĂĂf
Æ'Ătâ€™ĂfĂ
ĉĂĉâ€šĂĂĂ
...Ă;ĂfÆ'Ăĉâ,
Ă;Ăfâ€šĂ,Ă
,
ĂfÆ'Ătâ€™Ăf
â€ Ăĉâ,Ăâ,,ĉĂ
ĂfÆ'Ăĉâ,Ă;Ă
Ăfâ€šĂ,Ă«Ăf
Æ'Ătâ€™ĂfĂ
ĉĂĉâ€šĂĂĂ

Advanced Rating ⓘ

Global configuration

Advanced Rating ⓘ

Rating recalculation mode: ⓘ

Wiki

Simple wiki ratings ⓘ

Wiki rating options: ⓘ

Articles

User ratings on articles ⓘ

Article rating options: ⓘ

Apply

Create New

Name **Create**

„çÃfÆ'Ãçâ,¬
 Å;Ãfâ€šÃ,Â¬
 ãfÆ'Ã,ÂçÃfÂ
 çÃçâ,¬Å;Ã,Â
 ¬Ãfâ€¡Ã,Â;Ãf
 Æ'Ã†â€™ ãfÂ
 çÃçâ€šÂ¬Ã
 ...Â;ÃfÆ'Ãçâ,
 ¬Å;Ãfâ€šÃ,Â
 ¬ÃfÆ'Ã†â€™
 ãfâ€ ãçâ,¬â
 „çÃfÆ'Ãçâ,¬
 Å;Ãfâ€šÃ,Â-
 ãfÆ'Ã,ÂçÃfÂ
 çÃçâ,¬Å;Ã,Â
 ¬Ãfâ€šÃ,ÂçÃ
 fÆ'Ã†â€™ ãfÂ
 çÃçâ€šÂ¬Ã
 ...Â;ÃfÆ'Ãçâ,
 ¬Å;Ãfâ€šÃ,Â
 ãfÆ'Ã†â€™ ãf

â€ˆ Ãƒâ, ¬â, „ç
Ãƒâ€ˆ Ãƒâ, ¬â;
Ãƒâ€ˆšÃ, Â«Ãƒ
â€ˆÃ, ÂçÃƒâçÃ
çâ, ¬â;Ã, Â¬Ã
fâ€ˆ!Ãçâ, ¬â“
Ãƒâ€ˆÃ†â€™ Ãƒ
ÂçÃçâ€ˆšÂ¬Ã
...Â;Ãƒâ€ˆÃçâ,
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±Ãƒâ€ˆÃ†â€™
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ÂçÃçâ, ¬â;Ã,
Â¬Ãƒâ€ˆšÃ, Â°

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Â¬Ã...Å;ÃfÆ'Ãçâ,¬Å;Ãfâ€šÃ,Â±ÃfÆ'Ã
tâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Å;Ãfâ€
šÃ,ÂªÃfÆ'Ãtâ€™ ÃfÂçÃçâ€šÂ¬Ã...Å;Ãf
Æ'Ãçâ,¬Å;Ãfâ€šÃ,Â,ÃfÆ'Ã,ÂçÃfÂçÃç
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ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬
Å;Ãfâ€šÃ,Â-

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çÃfÆ'Ãçâ,¬Å;Ãfâ€šÃ,Â¬ÃfÆ'Ãtâ€™ Ãf
ÂçÃçâ€šÂ¬Ã...Å;ÃfÆ'Ãçâ,¬Å;Ãfâ€šÃ,
Â'ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,
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$\tilde{A}f\tilde{A}'\tilde{A}t\hat{\in}^{\text{TM}} \tilde{A}f\hat{\in} \tilde{A}\phi\hat{a}, \neg\hat{a}, \phi\tilde{A}f\tilde{A}'\tilde{A}\phi\hat{a}, \neg\hat{A}; \tilde{A}f\hat{\in}\tilde{A}, \hat{A}\neg\tilde{A}f$

$\tilde{A}f\tilde{A}'\tilde{A}t\hat{\in}^{\text{TM}} \tilde{A}f\hat{\in} \tilde{A}\phi\hat{a}, \neg\hat{a}, \phi\tilde{A}f\tilde{A}'\tilde{A}\phi\hat{a}, \neg\hat{A}; \tilde{A}f\hat{\in}\tilde{A}, \hat{A}\ll\tilde{A}f\tilde{A}'\tilde{A}, \hat{A}\phi$

$\tilde{A}f\tilde{A}'\tilde{A}, \hat{A}\phi\tilde{A}f\hat{A}\phi\tilde{A}\phi\hat{a}, \neg\hat{A}; \tilde{A}, \hat{A}\neg\tilde{A}f\hat{\in}\tilde{A}, \hat{A}; \tilde{A}f\tilde{A}'\tilde{A}\phi\hat{a}, \neg\hat{A}; \tilde{A}f\hat{A}\phi\tilde{A}\phi\hat{a}$

$\tilde{A}f\tilde{A}'\tilde{A}\phi\hat{a}, \neg\hat{A}; \tilde{A}f\tilde{A}'\tilde{A}t\hat{\in}^{\text{TM}} \tilde{A}f\hat{A}\phi\tilde{A}\phi\hat{a}\hat{\in}\tilde{A}\neg\tilde{A}\dots\hat{A}; \tilde{A}f\tilde{A}'\tilde{A}\phi\hat{a}, \neg\hat{A}; \tilde{A}$

$\tilde{A}f\tilde{A}'\tilde{A}t\hat{\in}^{\text{TM}} \tilde{A}f\hat{\in} \tilde{A}\phi\hat{a}, \neg\hat{a}, \phi\tilde{A}f\tilde{A}'\tilde{A}\phi\hat{a}, \neg\hat{A}; \tilde{A}f\hat{\in}\tilde{A}, \hat{A}^a\tilde{A}f\tilde{A}'\tilde{A}t\hat{\in}$

$\tilde{A}f\tilde{A}'\tilde{A}t\hat{\in}^{\text{TM}} \tilde{A}f\hat{\in} \tilde{A}\phi\hat{a}, \neg\hat{a}, \phi\tilde{A}f\tilde{A}'\tilde{A}\phi\hat{a}, \neg\hat{A}; \tilde{A}f\hat{\in}\tilde{A}, \hat{A}^a\tilde{A}f\tilde{A}'\tilde{A}t\hat{\in}$

$\tilde{A}f\tilde{A}'\tilde{A}t\hat{\in}^{\text{TM}} \tilde{A}f\hat{\in} \tilde{A}\phi\hat{a}, \neg\hat{a}, \phi\tilde{A}f\tilde{A}'\tilde{A}\phi\hat{a}, \neg\hat{A}; \tilde{A}f\hat{\in}\tilde{A}, \hat{A}\neg\tilde{A}f\tilde{A}'\tilde{A}, \hat{A}$

Default

Default

on vote

Default

Default

Enable a simple rating bar at the top of each wiki page.

List of options for the simple wiki ratings.

Enable a simple rating bar at the top of each articles page

Default

1,2,3,4,5

Unable to load the jQuery Sortable Tables feature.

The feature must first be enabled through this same administration panel. Along with the feature, a few options are available. Among them, the score recalculation period must be defined. These are the available options:

- **On vote (default)** indicates that the score for the object should be recalculated every time a

vote is performed. This option is suitable for sites with lower volumes and relatively simple calculation methods when ratings are used.

- **Random on load** will cause a few scores to be calculated on page load on a random basis (odds and count can be configured to adapt to site load). This option is suitable for calculation rules involving time that must be recalculated even if no new votes occurred.
- **Random on vote** is similar to random on load, but will recalculate multiple scores (not necessarily including the current object) when a vote is performed. It is suitable for similar situations. The best option will depend on site load.
- **Periodic** is the best option for heavy load sites, making sure all calculations are done outside the web requests. A cron job must be set-up manually by the site's administrator. A sample script is available at the end of this page.

For the random options, the odds of recalculating must be specified as a dice roll. For each occurrence of a recalculation, a limit to how many scores can be calculated must be specified to avoid the hang-up effect on the page load.

The value ranges for each object type can also be specified through the administration panels.

The common *sort_mode* parameter to lists can be used to activate sorting using advanced ratings. To do so, the sort mode must be set to *adv_rating_X_asc* or *adv_rating_X_desc* where *X* is the ID of the rating configuration. The default sort can also be set to advanced ratings in the administration panel where applicable.

CALCULATION CONFIGURATION

From the administration panel, new calculations can be added. Initially, only the name is required. When created, the calculation

will contain suitable default values.

For wiki pages:



Thus, visitors can provide feedback like:

- Did this page help you solve the issue?
- Was this page easy to understand?

Advanced Rating

Introduced in [Tiki5](#), the advanced rating feature allows for more control over the aggregation of scores.

Rating methods are defined globally and will be used for all supported objects. They are defined through the **Advanced Rating** administration panel ([tiki-admin.php?page=rating](#)). Multiple methods can be created. If a method contains type-specific calculations, it will be ignored when performing the calculation.

Features currently supporting sorting through advanced rating:

- [Articles](#)
- [Wiki](#)

- [Comments](#)

SORTING ITEMS ACCORDING TO ADVANCED RATING

Note that the sort mode to use when needing to sort by advanced rating is either `adv_rating_xx_asc` or `adv_rating_xx_desc`, where `xx` is the `ratingConfigId`.

Feature request: Can we make this take the name of the config instead of the `ratingConfigId` as well?

SET-UP

By default, each calculated value is kept for 1 hour (3600 seconds). This limit does not apply when recalculating on vote, but is used for every other technique to avoid recalculating the same scores over and over again.

The calculation is defined as a small piece of code, similar to functional languages, which is very close to mathematical representations. Creating custom formulas is expected to require some mathematical skills. However, this documentation should provide examples for most frequent cases.

The editor in the administration panel performs extensive validation and will make it impossible to save the formula unless it can be evaluated. Checks are performed for:

- Syntax errors
- Unknown functions
- Missing arguments
- Invalid argument values

- Unknown input variables

Default formula

```
(rating-average (object type object-id))
```

It can be altered to limit the vote consideration to a limited time span, 30 days for example.

Recent votes only

```
(rating-average (object type object-id) (range (mul 3600 24 30)) )
```

In the language, spaces do not matter. Only the parenthesis indicate structure. **rating-average** is a function that fetches the ratings for a given object. *type* and *object-id* are standard variables fed when calculating a rating. **object** and **range** are configuration options of the function.

mul is a mathematical function. (mul 3600 24 30) is equivalent to 3600*24*30.

The functions can be combined in various ways. For example, we could calculate a score that considers the votes from the past month, but gives extra emphasis on the recent ones.

Combined vote duration

```
(add (rating-average (object type object-id) (range (mul 3600 24 30))) (rating-average (object type object-id) (range (mul 3600 24 7)))) )
```

Even though the votes are 1-5, the final score can be on an entirely different scale. The language is also extensible if the calculation needs to be combined with other factors or weight. See [Rating Language](#).

All available options are documented in the following section.

GENERAL REFERENCE

COMMENT

Any comment block is stripped from the formula at parse-time

Examples

```
(mul 1 2 (comment Simple enough?)) -> 2
```

MUL (MULTIPLY)

Performs a simple multiplication accepting multiple input values.

Examples

```
(mul 3 4) -> 12 (mul (mul 3 4) 5) -> 60 (mul 3 4 5) -> 60 (mul 4 0.5) -> 2
```

DIV (DIVIDE)

Performs a simple division accepting multiple input values.

Examples

(div 3 4) -> 0.75 (div (mul 3 10) 5) -> 6 (div 30 5 3) -> 2 (div 4 0.5) -> 8

ADD (SUM)

Performs a simple sum accepting multiple input

Examples

(add 3 4) -> 7 (add (add 3 4) 5) -> 12 (add 3 4 5) -> 12 (add 4 0.5) -> 4.5

SUB (SUBSTRACT)

Performs a simple substraction accepting multiple input

Examples

(sub 3 4) -> -1 (sub (sub 3 4) 5) -> -6 (sub 3 4 5) -> -12 (add 4 0.5) -> 3.5

ROUND

Rounds to a specific number of digits (new in Tiki12)

Examples

```
(round 4.556234342234 2) -> 4.56 (round 4.556234342234) -> 5
```

COALESCE

Returns the first non-empty value from the list.

Examples

```
(coalesce 3 4) -> -3 (coalesce (sub 3 3) 5) -> 5 (coalesce 0 0 (str) -10) -> -10 (coalesce 0 0 0 0 0) -> 0
```

STR

Generates a static string when needed and the processor attempts to process the string as a variable. Any arguments will be concatenated using spaces.

Note: The quoted string syntax was included in [Tiki13](#).

Examples

```
(str hello-world) -> "hello-world" (str hello world) -> "hello world" (str hello world foobar) -> "hello world foobar" (str (mul 2 3) "= 6") -> "6 = 6"
```

CONCAT

Concatenates a string of text. (new in Tiki12)

Note: The quoted string syntax was included in [Tiki13](#).

Examples

```
(concat (str $) 1234 ) -> "$1234" (concat 14 (str %) ) -> "14%" (concat 14 "%") -> "14%"
```

MAP

Generates a map (or dictionary).

Examples

```
(map (key1 1) (key2 2) (key3 (str value3)) ) -> {"key1": 1, "key2": 2, "key3": "value3"}
```

EQUALS

Compares multiple values.

Examples

```
(equals 2 (add 1 1) (sub 4 2)) -> 1 (equivalent of 2 == 1+1 && 2 == 4-2) (equals (add 1 1) 3) -> 0
```

IF

Conditionally evaluates a branch.

Examples

```
(if (equals 2 2) 42 -1) -> 42 (if (equals 2 1) 42 -1) -> -1
```

AND

Ensures all elements evaluate to true.

Examples

```
(and 3 2 1 2 3) -> 1 (and 2 3 0 2) -> 0
```

OR

Ensures that at least one element evaluates to true. Elements are evaluated sequentially until a false element is found. Others are left unevaluated.

Examples

```
(or 3 2 1 2 3) -> 1 (or 2 3 0 2) -> 1 (or 0 0) -> 0
```

HASH

Generates a hash based on multiple values. Used primarily to generate aggregate hashes in the [PluginActivityStream](#). Note that because it is a hash, the exact value coming out does not matter. Only that given the same parameter, it will produce the same value.

Examples

```
(hash 1) -> [sha1("1")] (hash 1 2 3 4) -> [sha1("1/2/3/4")] (hash 1 2 (map (a 3) (b 4))) -> [sha1("1/2/3/4")]
```

AVG

Calculates the average of multiple values. All entries in the list will be flattened if arrays are present.

Examples

(avg 1 2 3) -> 2 ... given list contains [1, 2, 3] (avg list) -> 2

SPLIT-LIST

Produces a multi-dimensional array out of a text string. Each line is expected to be an independent value, each line will be split by a separator into the specified keys.

Examples

... given str contains a list of 3 comma-separated values (split-list (content str) (separator ,) (keys a b c)) -> [{a: 1, b: 2, c: 3}, {a: 2, b: 3, c: 4}]

FOR-EACH

For a list of value pairs, such as the output of *split-list*, evaluates a formula for each set of values, returns the list of results.

Within the formula, variables coming from the list will be used first. Fallback will be on the other variables available in the execution context.

Examples

... given items contains [{a: 1, b: 2, c: 3}, {a: 2, b: 3, c: 4}] (for-each (list items) (formula (mul a b c))) -> [6, 24] ... given items contains [{a: 1, b: 2, c: 3}, {a: 2, b: 3, c: 4}] ... and d contains 10 (for-each (list items) (formula (mul c d))) -> [30, 40]

ÄFÆ'Ä†Ä€™ ÄFÄ€ ÄçÄ, ¬Ä,, çÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä²ÄFÆ'Ä†Ä€™ ÄFÄçÄçÄ€ŠÄ¬Ä
...Ä; ÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä³ÄFÆ'Ä†Ä€™ ÄFÄçÄçÄ€ŠÄ¬Ä...Ä; ÄFÆ'Ä†Ä€™ ÄFÄ€ Ä
çÄ, ¬Ä,, çÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä²ÄFÆ'Ä†Ä€™ ÄFÄçÄçÄ€ŠÄ¬Ä...Ä; ÄFÆ'ÄçÄ, ¬Ä; ÄF
Ä€ŠÄ, Ä, ÄFÆ'Ä, ÄçÄFÄçÄçÄ, ¬Ä; Ä, Ä¬ÄFÄ€ŠÄ, Ä°
ÄFÆ'Ä†Ä€™ ÄFÄ€ ÄçÄ, ¬Ä,, çÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä«ÄFÆ'Ä, ÄçÄFÄçÄçÄ, ¬Ä; Ä, Ä¬
ÄFÄ€!ÄçÄ, ¬Ä"ÄFÆ'Ä†Ä€™ ÄFÄçÄçÄ€ŠÄ¬Ä...Ä; ÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä±ÄFÆ'Ä†Ä
€™ ÄFÄ€ ÄçÄ, ¬Ä,, çÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä²ÄFÆ'Ä†Ä€™ ÄFÄçÄçÄ€ŠÄ¬Ä...Ä; ÄFÆ'
ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä, ÄFÆ'Ä, ÄçÄFÄçÄçÄ, ¬Ä; Ä, Ä¬ÄFÄ€ŠÄ, Ä° -
ÄFÆ'Ä†Ä€™ ÄFÄ€ ÄçÄ, ¬Ä,, çÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä-
ÄFÆ'ÄçÄ, ¬Ä! ÄFÆ'Ä†Ä€™ ÄFÄçÄçÄ€ŠÄ¬Ä...Ä; ÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä¹ÄFÆ'Ä†Ä€
™ ÄFÄ€ ÄçÄ, ¬Ä,, çÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä¬ÄFÆ'Ä†Ä€™ ÄFÄçÄçÄ€ŠÄ¬Ä...Ä; ÄFÆ'
Ä, ÄçÄFÄçÄçÄ, ¬Ä; Ä, Ä¬ÄFÄ€ŠÄ, ÄçÄ FÆ'Ä†Ä€™ ÄFÄ€ ÄçÄ, ¬Ä,, çÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€
ŠÄ, Ä¬ÄFÆ'Ä†Ä€™ ÄFÄçÄçÄ€ŠÄ¬Ä...Ä; ÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä° ÄFÆ'Ä†Ä€™ ÄFÄçÄçÄ
çÄ€ŠÄ¬Ä...Ä; ÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä, ÄFÆ'Ä†Ä€™ ÄFÄ€ ÄçÄ, ¬Ä,, çÄFÆ'ÄçÄ, ¬Ä; Ä
FÄ€ŠÄ, Ä¬ÄFÆ'Ä†Ä€™ ÄFÄçÄçÄ€ŠÄ¬Ä...Ä; ÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä; ÄFÆ'Ä†Ä€™ ÄF
ÄçÄçÄ€ŠÄ¬Ä...Ä; ÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä°

RATING-AVERAGE

(ÄFÆ'Ä†Ä€™ ÄFÄ€ ÄçÄ, ¬Ä,, çÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä«ÄFÆ'Ä, ÄçÄFÄçÄçÄ, ¬Ä; Ä, Ä¬ÄFÄ€!ÄçÄ, ¬Ä"ÄF
Æ'Ä†Ä€™ ÄFÄçÄçÄ€ŠÄ¬Ä...Ä; ÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä±ÄFÆ'Ä†Ä€™ ÄFÄ€ ÄçÄ, ¬Ä,, çÄFÆ'ÄçÄ, ¬Ä; ÄFÄ
€ŠÄ, Ä²ÄFÆ'Ä†Ä€™ ÄFÄçÄçÄ€ŠÄ¬Ä...Ä; ÄFÆ'ÄçÄ, ¬Ä; ÄFÄ€ŠÄ, Ä, ÄFÆ'Ä, ÄçÄFÄçÄçÄ, ¬Ä; Ä, Ä¬ÄFÄ€ŠÄ,

Æ'Ātâ€™ Āfâ€ Āçâ, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā«ĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ¬Ā...Ā; ĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā°
ĀfÆ'Ātâ€™ Āfâ€ Āçâ, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā-
ĀfÆ'Ā, ĀçĀfĀçĀçâ, ¬Ā; Ā, Ā¬Āfâ€šĀ, ĀçĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ¬Ā...Ā; ĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā-
ĀfÆ'Ātâ€™ Āfâ€ Āçâ, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā¬ĀfÆ'Āçâ, ¬ ĀfĀçĀçâ€šĀ¬Āçâ€žĀç
ĀfÆ'Ātâ€™ Āfâ€ Āçâ, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā¬ĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ¬Ā...Ā; ĀfÆ'Āçâ, ¬Ā; Āf
â€šĀ, Ā'

ĀfÆ'Ātâ€™ Āfâ€ Āçâ, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā«ĀfÆ'Ā, ĀçĀfĀçĀçâ, ¬Ā; Ā, Ā¬Āfâ€Ā; Ā, Ā; ĀfÆ'Ātâ€™
™ ĀfĀçĀçâ€šĀ¬Ā...Ā; ĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā' ĀfÆ'Ātâ€™ Āfâ€ Āçâ, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā¬Ā
fÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā; ĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ¬Ā...Ā; ĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā©ĀfÆ'Ātâ€™ Āfâ€ Āç
â, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā¬ĀfÆ'Āçâ, ¬ ĀfĀçĀçâ€šĀ¬Āçâ€žĀç

(ĀfÆ'Ātâ€™ Āfâ€ Āçâ, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā^aĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ¬Ā...Ā; ĀfÆ'Āçâ, ¬Ā; Āf
â€šĀ, Ā°ĀfÆ'Āçâ, ¬Ā; ĀfĀçĀçâ€šĀ¬Ā...â€œĀfÆ'Ātâ€™ Āfâ€ Āçâ, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā¬Āf
Æ'Ātâ€™ ĀfĀçĀçâ€šĀ¬Ā...Ā; ĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā²ĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ¬Ā...Ā; ĀfÆ'Āçâ, ¬Ā;
Āfâ€šĀ, Ā'

ĀfÆ'Ātâ€™ Āfâ€ Āçâ, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā¬ĀfÆ'Āçâ, ¬Ā; ĀfĀçĀçâ€šĀ¬Ā...â€œĀfÆ'Ātâ€™
ĀfĀçĀçâ€šĀ¬Ā...Ā; ĀfÆ'Ātâ€™ Āfâ€ Āçâ, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā-
ĀfÆ'Āçâ, ¬Ā¹Āfâ€Ā; Āçâ, ¬Ā"ĀfÆ'Ā, ĀçĀfĀçĀçâ, ¬Ā; Ā, Ā¬Āfâ€šĀ, Āç
ĀfÆ'Ātâ€™ Āfâ€ Āçâ, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā^aĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ¬Ā...Ā; ĀfÆ'Āçâ, ¬Ā; Āf
â€šĀ, Ā°ĀfÆ'Āçâ, ¬Ā; ĀfĀçĀçâ€šĀ¬Ā...â€œĀfÆ'Ātâ€™ Āfâ€ Āçâ, ¬â,, çĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā¬Āf
Æ'Ātâ€™ ĀfĀçĀçâ€šĀ¬Ā...Ā; ĀfÆ'Āçâ, ¬Ā; Āfâ€šĀ, Ā²ĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ¬Ā...Ā; ĀfÆ'Āçâ, ¬Ā;

Åfâ€šÅ,Å 'ID).

- **range**

(ÅfÆ'Åtâ€™ Åfâ€ Åçâ,¬â,,çÅfÆ'Åçâ,¬Å;Åfâ€šÅ,Å«ÅfÆ'Åtâ€™ ÅfÅçÅçâ€šÅ¬Å...Å;ÅfÆ' Åçâ,¬Å;Åfâ€šÅ,Å²ÅfÆ'Å,ÅçÅfÅçÅçâ,¬Å;Å,Å¬ÅfÆ'Åtâ€™ Åfâ€ Åçâ,¬â,,çÅfÆ'Åçâ,¬Å;Å fâ€šÅ,Å¬ÅfÆ'Åçâ,¬Å;ÅfÅçÅçâ€šÅ¬Å...â€œÅfÆ'Å,ÅçÅfÅçÅçâ,¬Å;Å,Å¬Åfâ€|Å,Å¾), to limit how long votes are considered. Argument is provided as a number of seconds.

- **ignore**

(ÅfÆ'Åtâ€™ Åfâ€ Åçâ,¬â,,çÅfÆ'Åçâ,¬Å;Åfâ€šÅ,Å«ÅfÆ'Åtâ€™ ÅfÅçÅçâ€šÅ¬Å...Å;ÅfÆ' Åçâ,¬Å;Åfâ€šÅ,Å¬ÅfÆ'Åtâ€™ ÅfÅçÅçâ€šÅ¬Å...Å;ÅfÆ'Åçâ,¬Å;Åfâ€šÅ,Å' ÅfÆ'Åtâ€™ Åf â€ Åçâ,¬â,,çÅfÆ'Åçâ,¬Å;Åfâ€šÅ,Å¬ÅfÆ'Å,ÅçÅfÅçÅçâ,¬Å;Å,Å¬Åfâ€šÅ,Å¹ÅfÆ'Åçâ,¬Å ;ÅfÅçÅçâ€šÅ¬Å...â€œ), with *anonymous* as an argument to only consider votes from registered users.

- **keep**

(ÅfÆ'Åtâ€™ Åfâ€ Åçâ,¬â,,çÅfÆ'Åçâ,¬Å;Åfâ€šÅ,Å¬ÅfÆ'Åçâ,¬Å;ÅfÅçÅçâ€šÅ¬Å...â€œ ÅfÆ'Åtâ€™ ÅfÅçÅçâ€šÅ¬Å...Å; ÅfÆ'Åtâ€™ Åfâ€ Åçâ,¬â,,çÅfÆ'Åçâ,¬Å;Åfâ€šÅ,Å¬ÅfÆ' Åtâ€™ ÅfÅçÅçâ€šÅ¬Å...Å;ÅfÆ'Åçâ,¬Å;Åfâ€šÅ,Å§ÅfÆ'Å,ÅçÅfÅçÅçâ€šÅ¬Å...Å;Åfâ€šÅ, Å¬), to only consider one vote per visitor. Unless the option is present, all of the votes are taken into account. The option can be either *latest* or *oldest* to indicate which one to keep.

- **revote**

(ÅfÆ'Åtâ€™ Åfâ€ Åçâ,¬â,,çÅfÆ'Åçâ,¬Å;Åfâ€šÅ,Å¬ÅfÆ'Åçâ,¬Å;Åfâ€šÅ,Å¾ÅfÆ'Åtâ€™ ÅfÅçÅçâ€šÅ¬Å...Å;ÅfÆ'Åçâ,¬Å;Åfâ€šÅ,Å¬ÅfÆ'Åtâ€™ Åfâ€ Åçâ,¬â,,çÅfÆ'Åçâ,¬Å;Åfâ

€ŠĀ,Ā-

ĀfÆ'Āçâ, -Ā¹ĀfĀçĀçâ€šĀ - ĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ - Ā...Ā; ĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā - ĀfÆ'
'Ātâ€™ Āfâ€ Āçâ, -â,, çĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā -

ĀfÆ'Ā, ĀçĀfĀçĀçâ, -Ā; Ā, Ā - Āfâ€¹Ā...â€œĀfÆ'Āçâ, -Ā; ĀfĀçĀçâ€šĀ - Ā...â€œ) can be specified if **keep** is specified. Indicates the time period required between votes. For example, users could be allowed to vote more than once per day, but only their latest vote each day would be considered, if revote is set to mul(24 3600). If the user voted yesterday as well as today, both votes will be counted.

ARTICLE-INFO

ĀfÆ'Ātâ€™ Āfâ€ Āçâ, -â,, çĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā^aĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ - Ā...Ā; ĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā³ĀfÆ'Ā, ĀçĀfĀçĀçâ, -Ā; Ā, Ā - Āfâ€Ā, Ā^{3/4}ĀfÆ'Ātâ€™ Āfâ€ Āçâ, -â,, çĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā - ĀfÆ'Ā, ĀçĀfĀçĀçâ, -Ā; Ā, Ā - Āfâ€Ā, Ā; ĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ - Ā...Ā; ĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā^oĀfÆ'Ātâ€™ Āfâ€ Āçâ, -â,, çĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā - ĀfÆ'Ā, ĀçĀfĀçĀçâ, -Ā; Ā, Ā - Āfâ€Ā, Ā^{3/4}ĀfÆ'Ātâ€™ Āfâ€ Āçâ, -â,, çĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā - ĀfÆ'Ā, ĀçĀfĀçĀçâ, -Ā; Ā, Ā - ĀfĀçĀçâ€šĀ - Ā...Ā; ĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā^aĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ - Ā...Ā; ĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā, ĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ - Ā...Ā; ĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā^oĀfÆ'Ātâ€™ Āfâ€ Āçâ, -â,, çĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā - ĀfÆ'Ā, ĀçĀfĀçĀçâ, -Ā; Ā, Ā - Āfâ€Ā, Ā; ĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ - Ā...Ā; ĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā^oĀfÆ'Ātâ€™ Āfâ€ Āçâ, -â,, çĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā - ĀfÆ'Ā, ĀçĀfĀçĀçâ, -Ā; Ā, Ā - Āfâ€Ā, Ā^{3/4}ĀfÆ'Āçâ, -Ā; ĀfĀçĀçâ€šĀ - Ā...â€œĀfÆ'Ātâ€™ Āfâ€ Āçâ, -â,, çĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā - ĀfÆ'Ā, ĀçĀfĀçĀçâ, -Ā; Ā, Ā - Āfâ€Ā, Ā^{3/4}ĀfÆ'Āçâ, -Ā; ĀfĀçĀçâ€šĀ - Ā...â€œĀfÆ'Ātâ€™ Āfâ€ Āçâ, -â,, çĀfÆ'Āçâ, -Ā; Āfâ€šĀ, Ā - ĀfÆ'Ātâ€™ ĀfĀçĀçâ€šĀ - Ā...Ā; ĀfÆ'Ā, ĀçĀfĀçĀçâ, -Ā; Ā, Ā - Āfâ€šĀ, ĀçĀfÆ'Ātâ€™

'Ã,ÂçÃfÂçÃçâ,¬Â;Ã,Â¬ÃfÂçÃçâ€šÂ¬Ã...â€œÃfÆ'Ãtâ€™ ÃfÂçÃçâ€šÂ¬Ã...Â;ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã',
ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Â¬ÃfÆ'Ãtâ€™ ÃfÂçÃçâ€šÂ¬Ã...Â;ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã'ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,ç
ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Â«ÃfÆ'Ãtâ€™ ÃfÂçÃçâ€šÂ¬Ã...Â;ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Â¬ÃfÆ'Ãtâ€™ ÃfÂçÃçâ€šÂ¬Ã...Â;ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã
1/4
ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã²ÃfÆ'Ãtâ€™ ÃfÂçÃçâ€šÂ¬Ã...Â;ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã³ÃfÆ'Ãtâ€™ ÃfÂçÃçâ€šÂ¬Ã
...Â;ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,ÃµÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Â¬ÃfÆ'Ã,ÃçÃfÂçÃçâ,¬Â;Ã,Â¬Ãfâ€šÃ,Ã¹
ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Â¬ÃfÆ'Ãçâ,¬Â;ÃfÂçÃçâ€šÂ¬Ã...â€œÃfÆ'Ãtâ€™ ÃfÂçÃçâ€šÂ¬Ã...Â;ÃfÆ'Ãtâ€™ Ãf
â€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,ÃÃfÆ'Ãçâ,¬Â¹Ãfâ€;Ãçâ,¬Â"ÃfÆ'Ã,ÃçÃfÂçÃçâ,¬Â;Ã,Â¬Ãfâ€šÃ,Ãç-
ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã-
ÃfÆ'Ãçâ,¬Â;ÃfÆ'Ãtâ€™ ÃfÂçÃçâ€šÂ¬Ã...Â;ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã¹ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã-
ÃfÆ'Ã,ÃçÃfÂçÃçâ€šÂ¬Ã...Â³/4Ãfâ€šÃ,ÃçÃfÆ'Ã,ÃçÃfÂçÃçâ,¬Â;Ã,Â¬ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Â¬ÃfÆ'Ã,ÃçÃfÂç
Ãçâ,¬Â;Ã,Â¬Ãfâ€šÃ,Ã¹ÃfÆ'Ãçâ,¬Â;ÃfÂçÃçâ€šÂ¬Ã...â€œÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Â¬ÃfÆ'Ãtâ€™ ÃfÂçÃçâ€š
šÂ¬Ã...Â;ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã¼ÃfÆ'Ãçâ,¬Â;ÃfÂçÃçâ€šÂ¬Ã...â€œ
ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Â«ÃfÆ'Ãtâ€™ ÃfÂçÃçâ€šÂ¬Ã...Â;ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã²ÃfÆ'Ã,ÃçÃfÂçÃçâ,¬Â;Ã,Â¬
Ãfâ€;Ã,Ã³/4ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Â«ÃfÆ'Ãtâ€™ ÃfÂçÃçâ€šÂ¬Ã...Â;ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã;ÃfÆ'Ãtâ€™ ÃfÂç
Ãçâ€šÂ¬Ã...Â;ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã½ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Â«ÃfÆ'Ã,ÃçÃfÂçÃçâ,¬Â;Ã,Â¬Ãfâ€šÃ,Ã¹ÃfÆ'
Ãçâ,¬Â¹ÃfÂçÃçâ€šÂ¬ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Â«ÃfÆ'Ã,ÃçÃfÂçÃçâ,¬Â;Ã,Â¬Ãfâ€šÃ,Ã¹ÃfÆ'Ãtâ€™ ÃfÂçÃçâ
€šÂ¬Ã...Â;ÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Ã².

• rating

(ÃfÆ'Ãtâ€™ Ãfâ€ Åçâ,¬â,,çÃfÆ'Ãçâ,¬Â;Ãfâ€šÃ,Â«ÃfÆ'Ã,ÃçÃfÂçÃçâ,¬Â;Ã,Â¬Ãfâ€;Ãçâ,¬Â"ÃfÆ'

- age-hour
- age-day
- age-week
- age-month

ĀfĀĒ'Ātā€™ Āfā€ Āçâ, -â,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā -ĀfĀĒ'Āçâ, -Ā'Āfā€Āçâ, -Ā"ĀfĀĒ'Āçâ, -Ā'ĀfĀçĀçâ€šĀ - ĀfĀĒ'Ātā€™ Āfā€ Āçâ, -â,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā -ĀfĀĒ'Ātā€™ ĀfĀçĀçâ€šĀ -Ā...Ā; ĀfĀĒ'Āçâ, -Ā; ĀfĀçĀçâ€šĀ -Ā...â€œ

(article-info type object-id rating) (article-info (str article) 42 age-month)

ĀfĀĒ'Ātā€™ Āfā€ Āçâ, -Ā,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā -ĀfĀĒ'Āçâ, ĀçĀfĀçĀçâ, -Ā; Ā, Ā - ĀfĀĒ'Ātā€™ Āfā€ Āçâ, -Ā,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā -ĀfĀĒ'Āçâ, ĀçĀfĀçĀçâ, -Ā; Ā, Ā -ĀfĀĒ'Āçâ, ĀçĀfĀçĀçâ, -Ā; Ā, Ā -ĀfĀĒ'Ātā€™ Āfā€çĀçâ€šĀ -Ā...Ā; ĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā±

ĀfĀĒ'Ātā€™ Āfā€ Āçâ, -â,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā«ĀfĀĒ'Ātā€™ ĀfĀçĀçâ€šĀ -Ā...Ā; ĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā³ĀfĀĒ'Ātā€™ ĀfĀçĀçâ€šĀ -Ā...Ā; ĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā'ĀfĀĒ'Ātā€™ Āfā€ Āçâ, -â,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā- ĀfĀĒ'Āçâ, ĀçĀfĀçĀçâ, -Ā; Ā, Ā - ĀfĀĒ'Ātā€™ ĀfĀçĀçâ€šĀ -Ā...Ā; ĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, ĀμĀfĀĒ'Ātā€™ Āfā€ Āçâ, -â,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā -ĀfĀĒ'Āçâ, -Ā¹Āfā€Āçâ, -Ā"

ĀfĀĒ'Ātā€™ Āfā€ Āçâ, -â,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, ĀªĀfĀĒ'Ātā€™ ĀfĀçĀçâ€šĀ -Ā...Ā; ĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā°ĀfĀĒ'Āçâ, -Ā; ĀfĀçĀçâ€šĀ -Ā...â€œĀfĀĒ'Ātā€™ Āfā€ Āçâ, -â,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā -ĀfĀĒ'Ātā€™ ĀfĀçĀçâ€šĀ -Ā...Ā; ĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā²ĀfĀĒ'Ātā€™ ĀfĀçĀçâ€šĀ -Ā...Ā; ĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā'

ĀfĀĒ'Ātā€™ Āfā€ Āçâ, -â,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā -ĀfĀĒ'Āçâ, ĀçĀfĀçĀçâ, -Ā; Ā, Ā - ĀfĀĒ'Ātā€™ Āfā€ Āçâ, -â,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā -ĀfĀĒ'Āçâ, ĀçĀfĀçĀçâ, -Ā; Ā, Ā -ĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā±ĀfĀĒ'Ātā€™ Āfā€ Āçâ, -â,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā -ĀfĀĒ'Āçâ, ĀçĀfĀçĀçâ, -Ā; Ā, Ā -ĀfĀĒ'Āçâ, -Ā; ĀfĀçĀçâ€šĀ -ĀfĀĒ'Ātā€™ Āfā€ Āçâ, -â,, çĀfĀĒ'Āçâ, -Ā; Āfā€šĀ, Ā -ĀfĀĒ'Āçâ, ĀçĀfĀçĀçâ, -Ā; Ā, Ā -ĀfĀĒ'Āçâ, -Ā; ĀfĀçĀçâ€šĀ -Ā...â€œ

ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, ÄªÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä°ÄfÆ'Ä, ÄçÄfÄçÄçâ€šÄ -Ä...
Ä; Äfâ€šÄ, Ä -ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, ÄªÄfÆ'Äçâ, -Ä! ÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Äº
ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, ÄªÄfÆ'Ä, ÄçÄfÄçÄçâ, -Ä; Ä, Ä -Äfâ€šÄ, ÄçÄfÆ'Äçâ, -Ä! ÄfÄçÄçâ€šÄ -Ä... â€œ
ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, ÄªÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä²ÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä
... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä½ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä -ÄfÆ'Äçâ, -Ä! Äfâ€šÄ, Ä; ÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä...
Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä° 0
ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä -ÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä´
ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä -ÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä... Ä; ÄfÆ'Äçâ, -Ä; ÄfÄçÄçâ€šÄ -Ä... â€œÄfÆ'Ätâ€™ Äf
â€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, ÄªÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä³ÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä... Ä; ÄfÆ'Äçâ,
-Ä; Äfâ€šÄ, ÄµÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, ÄªÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä`.

(tracker-field (object type object-id) (field priority)) -> [value contained in the tracker item field with permanent name "priority"]

CATEGORY-PRESENT

ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, ÄªÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä°ÄfÆ'Äçâ, -Ä! ÄfÄçÄçâ€šÄ -Ä
Ä... â€œÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä -ÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä²ÄfÆ'Ätâ€™ ÄfÄçÄçâ
â€šÄ -Ä... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä´ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä -ÄfÆ'Äçâ, -ÄfÄçÄçâ€šÄ -Äçâ€žÄçÄfÆ'Ätâ€™
Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä -ÄfÆ'Ä, ÄçÄfÄçÄçâ, -Ä; Ä, Ä -ÄfÄçÄçâ€šÄ -Ä
ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä -ÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä; ÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä
... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä´ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä -ÄfÆ'Äçâ, -Ä! Äfâ€šÄ, Ä¾ÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä...
Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä -ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, Ä -
ÄfÆ'Ä, ÄçÄfÄçÄçâ, -Ä; Ä, Ä -Äfâ€šÄ, ÄçÄfÆ'Äçâ, -Ä¹Äfâ€|Äçâ, -Ä"ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, ÄªÄfÆ'Äçâ, -Ä! Äf
Æ'Ä, ÄçÄfÄçÄçâ, -Ä; Ä, Ä -
ÄfÆ'Ätâ€™ Äfâ€ Äçâ, -â,, çÄfÆ'Äçâ, -Ä; Äfâ€šÄ, ÄªÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä... Ä; ÄfÆ'Äçâ, -Ä; Äfâ€šÄ, ÄªÄfÆ'Ätâ€™ ÄfÄçÄçâ€šÄ -Ä

...Ā; ĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā"ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā«ĀfĀ'Ā, ĀċĀfĀċĀċâ, ¬Ā; Ā, Ā¬ĀfĀ€ĬĀ, Ā; ĀfĀ'Āċâ, ¬Ā¹ĀfĀ€ĬĀċâ, ¬Ā"ĀfĀ'ĀtĀ€™ ĀfĀ€
fĀċĀċâ€šĀ¬Ā...Ā;
ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā«ĀfĀ'Ā, ĀċĀfĀċĀċâ, ¬Ā; Ā, Ā¬ĀfĀ€ĬĀ, Ā; ĀfĀ'Āċâ, ¬Ā¹ĀfĀ€ĬĀċâ, ¬Ā"ĀfĀ'ĀtĀ€™ ĀfĀ€
Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā¬ĀfĀ'Ā, ĀċĀfĀċĀċâ, ¬Ā; Ā, Ā¬ĀfĀċĀċâ€šĀ¬ĀfĀ'ĀtĀ€™ ĀfĀċĀċâ€šĀ¬Ā...Ā; ĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā'Āf
Ā'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā«ĀfĀ'Āċâ, ¬Ā; ĀfĀċĀċâ€šĀ¬Ā...Ā€œ
ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā«ĀfĀ'ĀtĀ€™ ĀfĀċĀċâ€šĀ¬Ā...Ā; ĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā²ĀfĀ'Ā, ĀċĀfĀċĀċâ, ¬Ā; Ā, Ā
ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā¬ĀfĀ'ĀtĀ€™ ĀfĀċĀċâ€šĀ¬Ā...Ā; ĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, ĀĤĀfĀ'ĀtĀ€™ ĀfĀċĀċâ€šĀ¬
Ā...Ā; ĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā^{1/4}ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā¬ĀfĀ'Āċâ, ¬Ā¹ĀfĀ€ĬĀċâ, ¬Ā"
ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā¬ĀfĀ'ĀtĀ€™ ĀfĀċĀċâ€šĀ¬Ā...Ā; ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā
¬ĀfĀ'Āċâ, ¬Ā¹ĀfĀċĀċâ€šĀ¬ĀfĀ'Āċâ, ¬Ā¹ĀfĀ€ĬĀċâ, ¬Ā"ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā¬ĀfĀ'Ā, ĀċĀfĀċĀċâ, ¬Ā; Ā,
Ā¬ĀfĀċĀċâ€šĀ¬Ā 1 ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā¬ĀfĀ'Ā, ĀċĀfĀċĀċâ, ¬Ā; Ā, Ā¬ĀfĀ€ĬĀ, Ā^{3/4}
ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā«ĀfĀ'ĀtĀ€™ ĀfĀċĀċâ€šĀ¬Ā...Ā; ĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā¶ĀfĀ'Ā, ĀċĀfĀċĀċâ€šĀ¬Ā...
Ā; ĀfĀ€šĀ, Ā¬ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā¬ĀfĀ'Ā, ĀċĀfĀċĀċâ, ¬Ā; Ā, Ā¬ĀfĀċĀċâ€šĀ¬ĀfĀ'ĀtĀ€™ ĀfĀċĀċâ€šĀ¬
Ā...Ā; ĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā¬ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā-
ĀfĀ'Ā, ĀċĀfĀċĀċâ, ¬Ā; Ā, Ā¬ĀfĀ€šĀ, ĀċĀfĀ'ĀtĀ€™ ĀfĀċĀċâ€šĀ¬Ā...Ā; ĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā".

ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā¬ĀfĀ'Āċâ, ¬Ā¹ĀfĀ€ĬĀċâ, ¬Ā"ĀfĀ'Āċâ, ¬Ā¹ĀfĀċĀċâ€šĀ¬ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā;
ĀfĀ€šĀ, Ā¬ĀfĀ'ĀtĀ€™ ĀfĀċĀċâ€šĀ¬Ā...Ā; ĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, ĀĬĀfĀ'Āċâ, ¬Ā; ĀfĀċĀċâ€šĀ¬Ā...Ā€œ

(category-present (object type object-id) (list 3 4)) -> [0, 1 or 2 - Depending on how many of categories 3 or 4 are on the object]

ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā«ĀfĀ'ĀtĀ€™ ĀfĀċĀċâ€šĀ¬Ā
...Ā; ĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā¶ĀfĀ'Ā, ĀċĀfĀċĀċâ€šĀ¬Ā...Ā; ĀfĀ€šĀ, Ā¬ĀfĀ'ĀtĀ€™ ĀfĀ€ Āċâ, ¬Ā,, ċĀfĀ'Āċâ, ¬Ā; ĀfĀ€šĀ, Ā«ĀfĀ'ĀtĀ€™ ĀfĀċĀċâ€šĀ¬Ā...Ā; ĀfĀ'Ā

ÅfÆ'Ã†Â€™ ÅfÂ€ ÅçÂ, ¬Â,, çÅfÆ'ÃçÂ, ¬Å|ÅfÂ€ŠÃ, Â«ÅfÆ'Ã, ÂçÅfÂçÅçÂ, ¬Å;Ã, Â¬
ÅfÂ€ŠÃ, Â¹ÅfÆ'Ã†Â€™ ÅfÂçÅçÂ€ŠÂ¬Ã...Â;ÅfÆ'ÃçÂ, ¬Å;ÅfÂ€ŠÃ, Â"ÅfÆ'Ã†Â€™ Å
fÂ€ ÅçÂ, ¬Â,, çÅfÆ'ÃçÂ, ¬Å;ÅfÂ€ŠÃ, Â¬ÅfÆ'ÃçÂ, ¬Â¹ÅfÂçÅçÂ€ŠÂ¬ ÅfÆ'ÃçÂ, ¬Â
|ÅfÂçÅçÂ€ŠÂ¬Ã...Â€Ç

ÅfÆ'Ã†Â€™ ÅfÂ€ ÅçÂ, ¬Â,, çÅfÆ'ÃçÂ, ¬Å;ÅfÂ€ŠÃ, Â¬ÅfÆ'ÃçÂ, ¬Â|ÅfÂçÅçÂ€ŠÂ¬
Ã...Â€ÇÅfÆ'Ã, ÂçÅfÂçÅçÂ, ¬Å;Ã, Â¬ÅfÂ€|Ã, Â¾ÅfÆ'Ã†Â€™ ÅfÂ€ ÅçÂ, ¬Â,, çÅfÆ'
ÃçÂ, ¬Å;ÅfÂ€ŠÃ, Â-

ÅfÆ'Ã, ÂçÅfÂçÅçÂ, ¬Å;Ã, Â¬ÅfÂ€|Ã, Â;ÅfÆ'Ã†Â€™ ÅfÂçÅçÂ€ŠÂ¬Ã...Â;ÅfÆ'ÃçÂ,
¬Å;ÅfÂ€ŠÃ, Âx ÅfÆ'Ã†Â€™ ÅfÂ€ ÅçÂ, ¬Â,, çÅfÆ'ÃçÂ, ¬Å;ÅfÂ€ŠÃ, Â«ÅfÆ'Ã, ÂçÅfÂ
çÅçÂ, ¬Å;Ã, Â¬ÅfÂ€|ÃçÂ, ¬Å"ÅfÆ'Ã†Â€™ ÅfÂçÅçÂ€ŠÂ¬Ã...Â;ÅfÆ'ÃçÂ, ¬Å;ÅfÂ€Š
Ã, Â±ÅfÆ'Ã†Â€™ ÅfÂ€ ÅçÂ, ¬Â,, çÅfÆ'ÃçÂ, ¬Å;ÅfÂ€ŠÃ, ÂªÅfÆ'Ã†Â€™ ÅfÂçÅçÂ€Š
Â¬Ã...Â;ÅfÆ'ÃçÂ, ¬Å;ÅfÂ€ŠÃ, Â, ÅfÆ'Ã, ÂçÅfÂçÅçÂ, ¬Å;Ã, Â¬ÅfÂ€ŠÃ, Â°

ÅfÆ'Ã†Â€™ ÅfÂ€ ÅçÂ, ¬Â,, çÅfÆ'ÃçÂ, ¬Å;ÅfÂ€ŠÃ
, ÂªÅfÆ'Ã†Â€™ ÅfÂçÅçÂ€ŠÂ¬Ã...Â;ÅfÆ'ÃçÂ, ¬Å
;ÅfÂ€ŠÃ, Â' ÅfÆ'Ã, ÂçÅfÂçÅçÂ€ŠÂ¬Ã...Â;ÅfÂ€ŠÃ

$\tilde{A}, \hat{A}, \tilde{A} \in \mathcal{E}' \tilde{A}, \hat{A} \subset \tilde{A} \hat{A} \subset \tilde{A} \hat{A}, \neg \hat{A}; \tilde{A}, \hat{A} \neg \tilde{A} \hat{A} \in \mathcal{S} \tilde{A}, \hat{A}^\circ$