PhotoPlace
RATING SYSTEM RULES AND TRIGGERS

Constants
/coefficients of weight/

- $author_rating_weight = 0.5; (From 0.1 to 1.0)
  /This is coefficient that will allow to handle actions across the system with relation to the author influence. If coefficient is bigger, then better authors will have more influence in the rating system/

Triggers
/when some action occur/

1. When registered user vote/like a picture:
   a. Mark in "votes" table that the user is voted for the picture. When user vote/like an image, he cannot vote/like again;

   b. Set what is the current MaxValues.imagevotes

   (ImagesRating.whenuploadedmaxvotes = MaxValues.imagevotes)

   c. Calculate $user_influence_to_add

$$\left((1 - \$author\_rating\_weight) + \left(\frac{userinfluence}{maxvalues.userinfluence} \times (1 - \$author\_rating\_weight)\right)\right)$$

*Multiply the rating by 100 to avoid fractions ($user_influence_to_add * 100)

   d. Calculate $image_rating_to_add =

$$\left((1 - \$author\_rating\_weight) + \left(\frac{userinfluence}{maxvalues.userinfluence} \times (1 - \$author\_rating\_weight)\right)\right)$$

*Multiply the rating by 100 to avoid fractions ($image_rating_to_add * 100)

Show ratings on website

1. Show current rating on image

$current_rating = LOG(ImagesRating.Votes;ImagesRating.WhenUploadedMaxVotes)*1000

2. Show max rating on image

$max_rating = LOG(ImagesRating.Votes;MaxValues.ImageVotes)*1000

Logaritmic Distribution