Timor street study as a center for sales of crocodile leather crafts in the City of Merauke based on the city design elements criteria

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Abstract. Timor Street is one of the roads in the city of Merauke and has become a phenomenon of gathering places for alligator craftsmen in the center of Merauke City. Timor Street is the main attraction for businessmen and craftsmen of crocodile skin to become a place of business in the form of workshops and displays of their handicrafts. This has become an interest of researchers to identify Timor Street as a center for selling crocodile skin in Merauke City which, if viewed in macro terms, can be linked to the rapid development and development of Merauke City, which is micro-increasing public activity on Timor Street. For this reason, a study of the existing conditions of Timor Street is needed according to the 8 (eight) criteria of the city design according to Hamid Shirvani. This research is a quantitative descriptive study that departs from a survey and collection of primary data taken directly in the field and supported by interviews and questionnaires from various groups of respondents. The data is then compiled, grouped and analyzed according to the elements of the city design delivered by Hamid Shirvani. The results showed that the strategic location in accordance with its use, building form and massing, circulation and parking, open space, pedestrian ways, activity support in the form of public spaces, signage, conservation, and preservation have strong attachments to the function of Timor Street as a center for craft sales crocodile skin in Merauke City.

1. Introduction

The city is one of the most complex places of human life because its development is influenced by the activities of urban users who adjust to the times and demands of life. The city as a process that can be seen as a result and its development is more prominent than the area outside the city and tends to emphasize more on the economic aspect, considered as a result of human engineering to fulfill the economic life of its users. In addition, cities also affect life in all fields, which have an impact on the emergence of increasingly complex problems that require solving [1].

Merauke City is one of the cities whose development is quite significant. This is characterized by economic growth which is increasing every year and a promising investment climate. One sector that can be relied on in the economic field is the sale of handicrafts and souvenirs from the city of Merauke, namely crocodile skin craft.
Timor Street has become a phenomenon of gathering places for crocodile skin craftsmen in Merauke City. Timor Street is included in the Kelurahan Seringgu Jaya, Merauke District, Merauke Regency, Papua Province. This road is an environmental road that becomes a link between Raya Mandala Street and Kampung Timur Street. The length of this road is ± 250 meters with a width of 4 meters. Timor Street is the main attraction for businessmen and craftsmen of crocodile skin to become a place of business, both workshops, and displays of their handicrafts. This has become an interest of researchers to identify Timor Street as a center for selling crocodile skin in Merauke City. On a macro basis, this research can be linked to the rapid development of the City of Merauke and in micro terms, it can be seen from the increasing public activity on Timor Street. This is the basis of the study of the existing conditions of Timor Street, which refers to 8 (eight) elements of urban design according to Hamid Shirvani in his book The Urban Design Process [2] which includes land use, building form and mass, circulation and parking, open space, pedestrian ways, activity support, signage, conservation and preservation. It is expected that this research can contribute to improving the physical quality of Timor Street.

![Figure 1. Location of Timor Street in the city of Merauke](Source: Google Maps reprocessed Author, 2018)

2. Literature review

City design is closely related to the physical quality of the environment. City design aims to realize high-quality urban space processes seen from the ability of the space in shaping the lifestyle of healthy urban communities. For those elements of urban architecture that influence the process of forming space must be directed and controlled in accordance with the development scenario outlined. These elements are also known as urban design elements.

Every city design must pay attention to the existing design elements so that later the city will have clear characteristics. According to Shirvani [2] in his book The Urban Design Process, there are 8 (eight) elements of urban design consisting of:

2.1. Land use

Land use is the arrangement of land and the decision to use land for certain purposes in accordance with its designation. Inland allotment there is a division of land use into groups according to the interaction between elements of activity, humans, and location. A past mistake in land use regulations was the lack of diversity of land use in an area and errors in calculating natural environmental and physical factors. Therefore, what must be considered for future land use is mixing use in an urban area, to improve 24-hour life by improving circulation through better pedestrian facilities and infrastructure use, analysis based on natural environment and improvement of infrastructure systems and the treatment plan needed.
2.2. Building form and massing
Building form and massing are closely related to building height, floor average ratio, building coverage ratio, set back building, style, scale, building materials, texture and color of buildings. Building form and massing can include quality related to the appearance of the building.

2.3. Circulation and parking
Circulation in cities is one very powerful tool for structuring urban environments because it can form, direct and control the pattern of activity of a city. Besides that circulation can also form the character of an area, place of activity and so forth. Failure to respond to the regulation of motorized vehicles, and the provision of attractive and adequate parking areas resulted in a number of city centers appearing dirty and slum. Circulation in the elements of urban design can directly shape and control the pattern of urban activities, as with the existence of transportation systems from public roads, pedestrian ways and interconnected transit places that will form a movement (activity).

2.4. Open space
Open space is a basic form of open space of buildings and can be used by everyone to carry out various kinds of activities [3]. Elements of the open space of the city include landscaping, roads, pedestrians, parks, and recreational spaces. Open space elements are divided into two groups, namely solid and void. Solid is a concrete element because it is built physically (mass material) and void is an element that is abstract or empty (special) because it is difficult to see. The direct benefit of green open space is forming beauty and comfort (shade, cool, fresh) and getting materials to sell (wood, leaves, flowers, fruits), while indirect benefits (long-term and intangible), namely air purifiers very effective, maintenance of the continuity of groundwater supplies, preservation of environmental functions along with all the contents of existing flora and fauna [4].

2.5. Pedestrian ways
Pedestrian ways are special spaces in the form of walking trails which serve as a means of achievement for pedestrians [5]. Walking is one of the city's driving force, the only tool to meet the needs of face-to-face interactions that exist in the life of city activities [6].

Pedestrian route arrangement is carried out by referring to the concept and dimensions of the pedestrian path that has been determined by considering additional facilities and maximum pedestrian flow [7].

Changes in the ratio of road use that can offset and increase the flow of pedestrians can be done by paying attention to aspects such as supporting activities along the road, the presence of commercial facilities such as shops, restaurants and cafes as well as street furniture in the form of trees, signs, lights, seating and so on.

2.6. Activity support
Activity support includes all functions and activities that strengthen public open space because activities and physical space complement each other. Supporting activities is not only a means of supporting pedestrian ways or plazas but also considerations between functions and uses of city elements that can generate activities such as shopping centers, recreational parks, squares and so on.

2.7. Signage
City life is very dependent on its commercial activities, consequently marking or guidance has an important influence on the design of the city. The arrangement, appearance and location of installation of signs should not cause negative visual effects and do not interfere with traffic signs. The types of signs (sign) are divided into:

2.7.1. Identity. Signs are used for the introduction of activities in a particular environment / location. Signs that have a special shape and large scale can be used as landmarks.
2.7.2. **Name of building.** Used as the name of the building which is usually equipped with instructions for the types of activities in it.

2.7.3. **Direction for circulation.** Usually referred to as traffic signs that serve to regulate and direct drivers or footsteps in circulation.

2.7.4. **Commercial.** Signs of this type can be found in the form of billboards and advertisements.

2.7.5. **Direction to other location and facilities.** This type of sign is a sign of direction or location of a particular activity that has a description of distance.

2.7.6. **Information.** Serves to inform activities in a location.

2.8. **Conservation and preservation**
Conservation of an individual building must always be associated with the whole city. The concept of urban conservation takes into account aspects of single buildings, architectural structures, and styles, things related to usability, age of buildings or the feasibility of buildings. While preservation aims to preserve and preserve ancient buildings from damage, demolition, and any changes. In preservation it is not permissible to replace the original elements with others.

3. **Methodology**
This research is a quantitative descriptive study using data collection methods in the form of questionnaires, organizing data, data analysis, and drawing conclusions. Data retrieval is done by literature study and observation of study objects by means of a theory review related to urban design techniques and observing current conditions related to the 8 elements of urban design according to Hamid Shirvani.

In this study, there are two variables, namely the independent variable which consists of a strategic location according to its use (land use), building form and massing, circulation and parking, open space, pedestrian ways, activity support in the form of public space, signage, conservation, and preservation. The dependent variable is the application of elements of city design according to Hamid Shirvani on Timor Street. To find out the relationship between the two variables, the researchers distributed questionnaires to the respondents using purposive sampling technique. The selection of respondents to distribute questionnaires to users and road users, craft owners, people who move on the road.

Stages of analysis are carried out by identifying elements of city design according to conditions in the field. This analysis continues with the stage of discovering the potential elements of urban design on Timor Street using the SPSS Model Summary to show the relationship between the two variables whether appropriate or not. Whereas to test the suitability of the regression model using the simultaneous test is calculated using the output of the Anova SPSS model. To test the significance of each variable with a regression model calculated using Regression Coefficients.

4. **Results and discussion**
To get how big the influence of the independent variable, in this case is the strategic location according to its use (land use), form building and massing, circulation and parking, open space, pedestrian ways, activity support in the form of public space, signage, conservation and preservation with dependent variables in this study, namely the application of elements of urban design according to Hamid Shirvani on Timor Street, a questionnaire was made to those on the road, including crocodile skin sellers, crocodile skin buyers and the general public. From the questionnaire, the following data are obtained:
Table 1. Recapitulation of questionnaire results

| No | Name               | Profession | Strategic | Building form | Circulation | Open space | Pedestrian | Activity support | Signage | Conservation area | Preservation |
|----|--------------------|------------|-----------|---------------|-------------|------------|------------|------------------|---------|-------------------|--------------|
| 1  | Adriansyah         | Visitor    | 3         | 6             | 3           | 7          | 5          | 6                | 7       |                   |              |
| 2  | Siti Nurbaya       | Visitor    | 7         | 3             | 3           | 3          | 2          | 2                | 7       |                   |              |
| 3  | Riyan Sianturi     | Visitor    | 7         | 3             | 2           | 7          | 2          | 8                | 10      |                   |              |
| 4  | Nyoman             | Visitor    | 7         | 3             | 2           | 9          | 3          | 8                | 8       |                   |              |
| 5  | Arin Tarung        | Visitor    | 7         | 4             | 3           | 7          | 3          | 9                | 9       |                   |              |
| 6  | Irma Yani          | Visitor    | 6         | 5             | 3           | 7          | 3          | 7                | 7       |                   |              |
| 7  | Dewi               | Visitor    | 7         | 7             | 3           | 7          | 3          | 7                | 7       |                   |              |
| 8  | Istiqomah          | Visitor    | 6         | 5             | 1           | 1          | 7          | 3                | 3       |                   |              |
| 9  | Yashinta           | Community  | 5         | 5             | 5           | 1          | 1          | 1                | 5       |                   |              |
| 10 | Beni Entamol       | Community  | 10        | 6             | 5           | 3          | 2          | 8                | 6       |                   |              |
| 11 | Jari               | Seller     | 8         | 3             | 8           | 2          | 2          | 1                | 9       |                   |              |
| 12 | Saban L.           | Community  | 8         | 3             | 2           | 7          | 3          | 3                | 8       |                   |              |
| 13 | Cristin            | Community  | 9         | 7             | 3           | 9          | 4          | 9                | 9       |                   |              |
| 14 | Laura              | Community  | 7         | 3             | 5           | 5          | 9          | 9                | 9       |                   |              |
| 15 | Daniel             | Community  | 7         | 6             | 5           | 5          | 6          | 5                | 10      |                   |              |
| 16 | Adelia Fauzi       | Community  | 7         | 4             | 8           | 7          | 3          | 6                | 6       |                   |              |
| 17 | Indri Irmawati     | Community  | 7         | 4             | 8           | 7          | 3          | 6                | 4       |                   |              |
| 18 | Ferdian            | Community  | 7         | 4             | 3           | 7          | 3          | 3                | 7       |                   |              |
| 19 | Hj. Ani            | Community  | 8         | 8             | 7           | 3          | 8          | 5                | 9       |                   |              |
| 20 | Suemi              | Community  | 8         | 5             | 3           | 7          | 5          | 7                | 6       |                   |              |
| 21 | Abraham            | Community  | 8         | 7             | 3           | 8          | 3          | 6                | 8       |                   |              |
| 22 | Clara              | Community  | 8         | 3             | 2           | 7          | 2          | 8                | 2       |                   |              |
| 23 | Wiyono             | Community  | 8         | 7             | 2           | 2          | 7          | 3                | 7       |                   |              |
| 24 | Rohman             | Community  | 8         | 4             | 2           | 9          | 1          | 10               | 10      |                   |              |
| 25 | Dea Arista         | Customer   | 6         | 6             | 5           | 6           | 5          | 3                | 8       |                   |              |
| 26 | Saeeful Anam       | Customer   | 7         | 8             | 7           | 6           | 8          | 9                | 8       |                   |              |
| 27 | Rosalina Majid     | Customer   | 8         | 4             | 7           | 5           | 7          | 6                | 9       |                   |              |
| 28 | Ristha Agny Ganda  | Customer   | 9         | 3             | 3           | 5           | 6           | 6                | 10      |                   |              |
| 29 | Rangga             | Customer   | 8         | 3             | 4           | 8           | 4           | 7                | 10      |                   |              |
| 30 | Akbar              | Customer   | 6         | 4             | 3           | 2           | 1          | 1                | 9       |                   |              |
| 31 | Zainal Abidin      | Customer   | 3         | 7             | 2           | 8           | 4           | 6                | 9       |                   |              |
| 32 | Muchlis Alahudin   | Customer   | 9         | 5             | 5           | 8           | 5           | 9                | 10      |                   |              |
| 33 | Ira Iryanti        | Visitor    | 7         | 4             | 8           | 7           | 3           | 6                | 4       |                   |              |
| 34 | Ina Sartina        | Visitor    | 5         | 7             | 4           | 5           | 4           | 6                | 5       |                   |              |
| 35 | Sri Mulyani        | Visitor    | 6         | 1             | 1           | 1           | 1           | 10               | 10      |                   |              |
| 36 | Muh. Ilham         | Visitor    | 7         | 7             | 4           | 1           | 2           | 1                | 1       |                   |              |
| 37 | Haris              | Visitor    | 3         | 9             | 3           | 9           | 10          | 9                | 9       |                   |              |
| 38 | Jumaida            | Visitor    | 3         | 8             | 4           | 3           | 3           | 4                | 8       |                   |              |
| 39 | Kartang            | Visitor    | 4         | 3             | 3           | 4           | 4           | 7                | 8       |                   |              |
| 40 | Muh. Yanni         | Customer   | 3         | 5             | 4           | 6           | 2           | 2                | 2       |                   |              |
| 41 | Agus Wahyu         | Customer   | 7         | 3             | 3           | 7           | 1           | 8                | 8       |                   |              |
| 42 | Katrina Radar      | Customer   | 8         | 2             | 2           | 8           | 2           | 8                | 9       |                   |              |
| 43 | Gea Sinta          | Customer   | 7         | 2             | 3           | 8           | 3           | 8                | 8       |                   |              |
| 44 | Vivi Novantri Dewi | Customer   | 5         | 6             | 4           | 7           | 4           | 10               | 9       |                   |              |
| 45 | Budiyanto          | Customer   | 2         | 3             | 3           | 3           | 2           | 3                | 3       |                   |              |
| 46 | Andi Alvian        | Customer   | 10        | 5             | 5           | 7           | 5           | 9                | 9       |                   |              |
| 47 | Antoro             | Customer   | 8         | 3             | 3           | 7           | 8           | 7                | 8       |                   |              |
| 48 | Basri              | Customer   | 8         | 5             | 4           | 8           | 4           | 10               | 10      |                   |              |
| 49 | Dewi               | Seller     | 7         | 7             | 3           | 6           | 3           | 6                | 7       |                   |              |
| 50 | Wahyudi            | Seller     | 8         | 3             | 2           | 3           | 4           | 2                | 8       |                   |              |
| 51 | Fikri              | Seller     | 8         | 6             | 3           | 7           | 3           | 7                | 8       |                   |              |
| 52 | Muhtadi            | Seller     | 10        | 5             | 5           | 6           | 5           | 10               | 6       |                   |              |
| 53 | Agus Wibowo        | Seller     | 10        | 5             | 5           | 6           | 5           | 10               | 6       |                   |              |
| 54 | Suradi             | Seller     | 10        | 5             | 5           | 5           | 5           | 10               | 6       |                   |              |
| 55 | Mas Udi            | Seller     | 6         | 5             | 5           | 5           | 5           | 10               | 10      |                   |              |
| Total | Yes                 | Visitor   | 45        | 18            | 7           | 34          | 10          | 39               | 45      | 42                |              |
Based on the results of questionnaire data obtained in the field of 55 respondents consisting of crocodile skin sellers, buyers and the general public, it is known that there are influences of independent variables on dependent variables, including:

4.1. Land use
Strategic location in accordance with its use (land use), there are 45 people or around 81.82% who think that the location of Timor Street is strategic as a center for selling crocodile leather while there are around 10 people or about 18.18% who think the location is not strategic.

4.2. Building form and massing
Building form and massing, there are 18 people or about 32.73% who think that the form of buildings located on Timor Street is in line with its function as a sales center of crocodile leather while there are about 37 people or about 67.27% who argues that the shape of the building on Timor Street is incompatible with its function.

4.3. Circulation and parking
Circulation and parking, there are 7 people or around 12.73% who think that circulation and parking on Timor Street are in accordance with their function as centers for selling crocodile skin while there are around 48 people or about 87.27% who think that circulation and parking those on Timor Street are not in accordance with their functions.

4.4. Open space
Open space, there are 34 people or around 61.82% who argue that there is a need for green open space on Timor Street to support its function as a center for selling crocodile skin while there are around 21 people or around 38.18% who argue that space is not needed green open on Timor Street to support its function as a center for selling crocodile skin.

4.5. Pedestrian ways
Pedestrian ways, there are 10 people or around 18.18% who think that the pedestrian ways on Timor Street are needed to support their function as a center for selling crocodile skin while there are around 45 people or around 81.82% who argued that there is no need for pedestrian ways on Timor Street to support its function as a center for selling crocodile skin.

4.6. Activity support
Activity support in the form of public spaces, there are 39 people or around 70.91% who argue that public space is needed on Timor Street to be able to support its function as a center for selling crocodile skin while there are around 16 people or about 29.09% who think that space is not needed public on Timor Street to be able to support its function as a center for selling crocodile skin.

4.7. Signage
Signage, there are 45 people or around 81.82% who think that signage is needed on Timor Street to support its function as a center for selling crocodile skin while there are around 10 people or about 18.18% who think that signage is not needed on Timor Street to get support its function as a center for selling crocodile skin.

4.8. Conservation and preservation
Conservation and preservation, there are 42 people or about 76.36% who think that preservation and conservation is needed on Timor Street to be able to support its function as a center for selling crocodile skin while there are around 13 people or around 23.64% who think that there is no need for preservation and conservation on Timor Street to support its function as a center for selling crocodile skin.
Regression analysis was performed using SPSS software to determine the effect of independent variables (strategic location, building form and massing, circulation and parking, green open space, pedestrian ways, signage, conservation and preservation) on the dependent variable (the function of Timor Street as a leather sales center for crocodile). Statistical tests were carried out by linear regression method.

### Table 2. Model summary

| Model | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|---------|-------------------|---------------------------|
| 1     | .930²   | .865              | .41424                    |

*². Predictors: (Constant), Strategic_location, Building_form, Circulation_and_parking, Green_open_space, Pedestrian_ways, Signage, Conservation_preservation.

In the SPSS Model Summary output, it can be seen that the correlation coefficient value (R value = 0.865) which shows that the relationship between independent variables (strategic location, building form, and massing, circulation and parking, green open space, pedestrian ways, signage, conservation and preservation), and the dependent variable (the function of Timor Street as a center for selling crocodile skin) are in the very strong category. This is supported by the value of the coefficient of determination (R Square) of 0.865. This value indicates that the independent variable can explain (be a factor) for the dependent variable of 86.5% and 14.5% is influenced by other factors/independent variables outside of this study.

### Table 3. Anova table regression of free variables against bound variables

| Model       | Sum of Squares | df | Mean Square | F     | Sig   |
|-------------|----------------|----|-------------|-------|-------|
| Regression  | 51.862         | 7  | 7.409       | 43.176| .000b |
| Residual    | 8.065          | 47 | .172        |       |       |
| Total       | 59.927         | 54 |             |       |       |

a. Dependent Variable: Completeness_of_element_according_to_Hamid_Shirvani
b. Predictors: (Constant), Strategic_location, Building_form, Circulation_and_parking, Green_open_space, Pedestrian_ways, Signage, Conservation_preservation.

On the output of Anova SPSS model to test the suitability of the regression model using simultaneous testing. The results of the SPSS output:

a) Hypothesis
   - Ho: β = 0 (Regression model X against Y is not appropriate)
   - H0: β ≠ 0 (Regression model X with respect to Y)

b) Significance level
   - α = 0.05

c) Critical Areas
   - Fhit ≥ Ftab = Ho accepted
   - Sig. ≤ 0.05 = Ho is rejected

d) Test Decisions
   - Because of sig. ≤ 0.05, the decision is Ho is rejected

e) Conclusions, so with a significance level of 5% it can be concluded that the regression model is dependent variable (Timor Street function) on the independent variable (strategic location, building form and massing, circulation and parking, green open space, public space, pedestrian ways, signage, conservation and preservation) corresponding.
Table 4. Free variable regression coefficients table on bound variables

| Model                                | Unstandardized Coefficients | Standardized Coefficients | t     | Sig. |
|--------------------------------------|----------------------------|---------------------------|-------|------|
| (Constant)                           |                            |                           |       |      |
| Strategic location                   | .728                       | .380                      | 1.913 | .006 |
| Building form and massing            | .111                       | .033                      | .204  | 3.334| .002 |
| Circulation and parking              | .125                       | .032                      | .217  | 3.909| .000 |
| Green open space                     | .177                       | .033                      | .302  | 5.323|      |
| Public space                         | .143                       | .030                      | .314  | 4.766| .000 |
| Signage                              | .105                       | .028                      | .281  | 3.803| .000 |
| Conservation and preservation        | .152                       | .027                      | .338  | 5.627| .000 |
|                                      | .082                       | .028                      | .174  | 2.957| .005 |

a. Dependent Variable: Completeness_of_element_according_to_Hamid_Hirvani

Partial tests are used to test the significance of each variable with the regression model used. Partial testing is done by looking at p-value or comparing between $t_{table}$ and $t_{count}$.

Based on the SPSS output coefficients, it can be seen that the probability value of the strategic location variable count of 0.002 indicates that the strategic location partially influences the function of Timor Street as a center for selling crocodile skin. The probability value of the building form variable count of 0.000 shows that the building form partially affects the function of Timor Street as a center for selling crocodile skin. The probability value of calculating circulation and parking variables of 0.000 indicates that circulation and parking partially affect the function of Timor Street as a center for selling crocodile skin. The probability value of the green open space variable count of 0.000 indicates that green open space partially influences the function of Timor Street as a center for selling crocodile skin. The probability value of the variable public space t count of 0.000 indicates that the public space partially influences the function of Timor Street as a center for selling crocodile skin. The probability value of the signage variable $t$-value of 0.000 indicates that signage partially affects the function of Timor Street as a center for selling crocodile skin. The probability value of calculating conservation and preservation variables of 0.000 indicates that conservation and preservation partially affect the function of Timor Street as a center for selling crocodile skin.

Based on the SPSS Coefficients output, it can be seen that strategic location variables, building forms, circulation and parking, green open spaces, pedestrian ways, signage, conservation and preservation have p-value <0.05 means strategic location, building form, circulation and parking, green open space, pedestrian ways, signage, conservation and preservation significantly influence the dependent variable of the function of Timor Street as a center for selling crocodile skin.

5. Conclusion

Based on regression analysis according to calculations using the SPSS Model Summary shows that the relationship between independent variables (location, building shape, road and parking area, green open space, pedestrian, signage and conservation and preservation) and dependent variables (the function of Timor Street as leather sales center crocodiles) are in the very strong category. While based on the calculation using the ANS SPSS model output to test the suitability of the regression model using simultaneous tests it can be concluded that the regression model is dependent variable (Timor Street function) on the independent variable (strategic location, building form and massing, circulation and parking, green open space, public space, pedestrian ways, signage, conservation and preservation) accordingly.
Based on the calculation of Regression Coefficients to test the significance of each variable with a regression model used it is known that strategic location, building shape, road area and parking, green open space, public space, pedestrian, signage, preservation and conservation partially affect the function Timor Street as a center for selling crocodile skin.

The advantages and potential of an area can be traced using the identification of 8 elements of city design according to Hamid Shirvani. By knowing the advantages and potential of Timor Road based on elements of urban design, it is expected that both the community as entrepreneurs and services on Timor Street and the Government of Merauke Regency can increase the potential of areas considered strategic to increase the attractiveness of the region as an industrial area and tourist destination.

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