



The Instrument Development to Evaluate Local Curriculum in Indonesia

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The purpose of this research is to develop an instrument to evaluate local curriculum developed by the local government. Local curriculum is to preserve the uniqueness or culture of the Region. With a well-run educational system, students as young people can develop local or regional uniqueness. Type of this research is a research and development consisting of four phases: 1) initial investigation phase, 2) design phase and 3) expert validation phase, and 4) trial phase. From the initial investigation obtained 3 components of the evaluation that is; 1) resources component; 2) process component; 3) output component. The design phase is done by studying the theory and developing the instrument in the form of the questionnaire as many as 60 items. Expert validation phase is done by 2 evaluation experts, 1 measurement expert, and 8 practitioners. The results were analyzed using Aiken's validity. The trial phase is done 2 times in small scale and large-scale trials. The small-scale trial was analyzed by confirmatory factor analysis and Cronbach's Alpha reliability. The large-scale trial was analyzed by confirmatory factor analysis and construct reliability. From the results of validity and reliability obtained 50 items of the instrument is valid and feasible to be used to evaluate local curriculum developed by local government. The instrument is effective in evaluating the local curriculum

Keywords: development, instrument, evaluation, local curriculum, curriculum development

INTRODUCTION

Indonesia is a country rich in diversity. The diversity of the Indonesian state can be seen from the many tribes and cultures that color in every region. This diversity shows that Indonesia is a country that has unique features that are not owned by other countries

Citation: Andrian, D., Kartowagiran, B., & Hadi, S. (2018). The Instrument Development to Evaluate Local Curriculum in Indonesia. *International Journal of Instruction*, 11(4), 921-934.

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because each region has its own distinct cultural uniqueness. The uniqueness of the culture owned by every region in the State of Indonesia needs to be maintained. Elements of government and society need to contribute in maintaining cultural heritage so as not to disappear with the rapidly growing information technology as they are a product of culture (Gavareshki, Haddadian, & HassanzadehKalleh, 2012). Characteristics and cultures are heritages that must be preserved from generation to generation (Hall, 2005). Elements of government and society must work together in maintaining the characteristics and culture owned by every region in Indonesia. Local governments through their budgets can develop local cultures into interesting objects (Środa-Murawska, Biegańska, & Dąbrowski, 2017). The result of the development of local culture can be a source of economic growth of a region (Tubadji, 2012).

Learners should preserve and develop the characteristics and culture because they are members of the community who must understand the cultural values of a region (Emin, 2013). Social learning activities can shape the values and norms of learners significantly (Shih, Velan, & Shulruf, 2017). Learning activities can be an effective business for learners to be more in love with the characteristics and culture of the region (Prastiwi, 2013). Introducing culture through education can transform the value of kindness to students (Strouse & Nickerson, 2016). With adapting to the surrounding culture, students can design knowledge (Temli Durmuş, 2016).

A local curriculum is a form of decentralized education regulated in the regulation of the Minister of Education and Culture No. 22 of 2006 on content standards. The local curriculum is an integral part of the national curriculum for which learning activities exist in elementary and secondary education (Depdiknas, 2006). The local curriculum is an integral part of the national curriculum which is intensively carried out from the 1994 curriculum, the 2004 curriculum, the 2006 curriculum and the 2013 curriculum. In Indonesia, the local curriculum becomes an important part of the national curriculum and is given to regions to develop local governments. The authority given by the central government to regional governments can be an effective means of developing a regional curriculum.

Governmental decentralization gives local governments the power and authority to manage education (Chan & Wang, 2009). Local governments can collaborate with schools to incorporate regional characteristics and cultures into learning activities because schools are empowered to manage the curriculum (Law, 2009). Distinction in managing education provided by the central government can make education more effective (Papadopoulou & Yirci, 2013). Decentralization of education makes the school more familiar and understands its duty in developing its own characteristics or culture (Chapman, Barcikowski, Sowah, Gyamera, & Woode, 2002). Schools that understand the region can develop the characteristics and develop the quality of education (Qi, 2011).

The local curriculum is developed by local governments as a means of developing the regional characteristics packed in learning activities. Local governments can add lessons that contain regional characteristics. Local governments coordinate with schools to

realize the curriculum developed by the regions. Schools should prepare facilities and infrastructure that can support the success of local curriculum developed by the local government. The introduction of culture to the younger generation can be effectively implemented through the local curriculum. The local curriculum can provide insight to learners about the importance of maintaining and preserving the culture and regional characteristics.

The local curriculum makes schools more confident and improves school satisfaction in work (Doherty & Shield, 2012). With learning activities, skill and teacher capacity are better so that they are able to develop innovation in the local curriculum (Sahasewiyon, 2004). The local curriculum provides autonomy to schools especially teachers in improving professional competence as teachers. The local curriculum offers an insight into schools to develop their own characteristics and culture through the education system (Mølstad, 2015). Schools that implement local curriculum can practice cultural characteristics in teaching and learning activities (Johansson, 2009). The local curriculum developed by the government should be evaluated so that the shortcomings or weaknesses of the local curriculum can be detected. Problems in learning activities can be detected by evaluating the curriculum (Haghparast, Sedghizadeh, Shuler, Ferati, & Christersson, 2007). Curriculum evaluation is a potential activity in building communication between students, teachers, and staff so that learning outcomes can be expected to be obtained (Harris, Driscoll, Lewis, Matthews, & Russell., 2010).

Based on the explanation about the importance of maintaining the regional characteristics through the curriculum, the evaluation of the curriculum is a study which must be done by the school. To evaluate a curriculum requires an accurate instrument that meets the valid and reliable criteria. Instruments to collect must be valid and reliable based on content and constructs in order to obtain accurate information (Ungar & Santos, 2003). The concept of validity and reliability is very important in the development of the instrument. Instruments that meet the valid and reliable criteria can illustrate the results of actual research. An Instrument that meets the valid and reliable criteria can result in quality measurement (Bayraktar, Tatoglu, & Zaim, 2008).

Context and Literature Review

The curriculum is the sum of the activities and learning experiences that students perceive with school guidance (Festus & Kurumeh, 2015; Fink, C.R., & Crunkilton, 1999; Howell, K.W., & Nolet, 2000). The curriculum is a total means of experience experienced by students through school guidance (Syomwene, Kitainge, & Mwaka, 2013). A curriculum is a basic element in the education system that includes the standards expected to be achieved (Akinoğlu, 2017). Based on these statements it can be concluded that the curriculum is the total means of all experience or educational program planned for students with school-made guidelines.

The curriculum provides guidance and a foundation for schools in developing learning and assessment. Efforts to improve the curriculum in order to achieve successful learning becomes something that absolutely must be done (Briggs, 2007). The curriculum provides opportunities for students to learn well and practically (Squires,

2013). The success of the learning process will be realized if curriculum practices work well and are based on assessment (McGaw, 2013). The success of the learning process can also occur when school elements innovate in the curriculum (Brundrett & Duncan, 2011). Teachers must be able to adapt to the developed curriculum and are not afraid of the demands to be achieved (Umami, 2018). The curriculum is the foundation of the learning activities. Curriculum evaluation is a potential activity in building communication between students, teachers, and staff so that learning outcomes can be expected to be obtained. Based on the above explanation it can be concluded that the evaluation of the curriculum is an absolute thing that must be done by the school.

Curriculum evaluation is an important aspect of curriculum development. The curriculum evaluation is vital and should be done by the school so that all weaknesses of the curriculum-building aspect can be described (Salim Saif Al-Jardani, 2012). A curriculum evaluation can show how far the educational objectives have been successful (Gilbert, 2004). Educational needs can be analyzed and identified through curriculum evaluation activities (Lie, John, Crandall, Degannes, Henderson, Kodjo, & Degannes, 2009). With curriculum evaluation, student skills in person, student achievement in general and students' interpersonal relationships can be improved (Curtis & Norgate, 2007). Curriculum evaluation can provide crucial things that must be improved in curriculum development. Methods of learning, student satisfaction in learning, student learning outcomes need to be evaluated (Zedda, Bernardelli, & Maran, 2017). Evaluations can help align educational goals in general and school missions (Heimlich, 2010). Evaluation activities can be the standard of teacher success in transferring knowledge to learners (Jacob & Lefgren, 2008).

METHOD

Research on instrument development to evaluate local curriculum developed by the local government using research and development. The purpose of this research is to produce an instrument of a questionnaire to evaluate local curriculum implementation developed by the local government. The research and development model used is the Borg & Gal (1983) model consisting of 10 simplified steps into four steps: (1) initial investigation, (2) design stage, (3) expert validation and; (4) trials, evaluations, and revisions. Initial investigations used qualitative research with a phenomenological approach. Data were collected using focus group discussion (FGD) techniques with 14 Participants consisting of 6 vice principals and 8 local curriculum teachers. The purpose of the FGD is to obtain constructs that can be used to evaluate the local curriculum. From the FGD results it was found that there were several factors that became the basis for evaluating the local curriculum, namely; 1) government support, school support, student motivation, equipment, materials, and funds are summarized into resource factors; 2) teacher preparation, implementation, formative assessment and summative assessment summarized into process factors; 3) students' knowledge, student attitudes, student skills and entrepreneurial desires are summarized into output factors. The instrument design phase was conducted by developing a questionnaire. Validation Phase conducted by 2 evaluation experts or 1 measurement expert and 8 practitioners. The validation phase aims to see the validity of the contents of the developed questionnaire.

Content validity affects the accuracy of data to be obtained in the field. Trials were conducted 2 times, in small and large-scale trial. The small-scale trial aims to see the validity of content empirically, namely by distributing items of the questionnaire developed to respondents. The large-scale trial aims to see the validity and reliability of instrument constructs.

Sample & Sampling Technique

The sample used in this study is senior high school students who implement the local curriculum. The sampling technique used is purposive sampling. The reason for choosing purposive sampling technique is because it can select the samples correctly according to the criteria and the number of samples to be used for the research (Eğmir, Erdem, & Koçyiğit, 2017).

Instrument

The instrument used in this study is a questionnaire. The questionnaires that have been developed are then validated by experts. The questionnaire developed amounted to 60 items consisting of 4 items of government support (GS1, GS2, GS3, GS4), 5 items of school support (SS1, SS2, SS3, SS4, SS5), 4 items of student motivation (SM1, SM2, SM3, SM4), 5 items of equipment (Eq1, Eq2, Eq3, Eq4, Eq5), 5 items of material (Ma1, Ma2, Ma3, Ma4, Ma5), 5 items of fund (Fu1, Fu2, Fu3, Fu4, Fu5), 4 items of teacher preparation (TP1, TP2, TP3, TP4), 5 items of implementation (Im1, Im2, Im3, Im4, Im5), 3 items of formative assessment (FA1, FA2, FA3), 4 items of sumative assessment (SA1, SA2, SA3, SA4), 4 items of knowledge (Kn1, Kn2, Kn3, Kn4), 4 items of attitudes (At1, At2, At3, At4), 4 items of skill (Sk1, Sk2, Sk3, Sk4) and 4 items of entrepreneurship desire (ED1, ED2, ED3, ED4).

Data analysis technique

There are four phases of data analysis performed in this study. Data analysis of initial investigation phase, data analysis of expert validation phase, data analysis of small-scale trial data and data analysis of the large-scale trial. Data analysis at the initial investigative phase used the method proposed by Creswell (2014): preparing and defining data, reading the data as a whole, coding data to define themes and create descriptions, link themes, and interpret themes. Data analysis of validation phase of expert use Aiken's V formula to see instrument items based on expert judgment (Aiken, 1980). Data analysis at small-scale trial phase using confirmatory factor analysis to see the validity of content empirically. The data analysis of the large-scale trial phase also uses confirmatory factor analysis to see the validity of the constructs. The effectiveness of the model was analyzed using descriptive statistics by creating categories, namely 3.26 to 4.00 with very good or very effective categories; 2.51 to 3.25 with good or effective category; 1.76 to 2.50 with good enough or effective enough category; and 1 to 1.75 with not good or ineffective categories (Sultan, Rofiuddin, Nurhadi, & Priyatni, 2017). The effectiveness is assessed partially using an expert or practitioner who has used the instrument, as no previous instrument has been developed to evaluate the curriculum. This method can be used if no model, instrument or product has been developed previously to assess a program (Cashmore, Bond, & Sadler, 2009; Morrison-Saunders & Arts, 2004).

FINDINGS

Content validity with Aiken's V formula

The developed instrument was assessed by two evaluation experts, one measurement expert and eight practitioners consisting of principals and local subject teachers. Experts and practitioners provide criteria, are highly relevant, relevant, irrelevant, and highly irrelevant. Expert assessment results are analyzed by Aiken's validity with categories ie; 0.0 to 0.4 low or cannot be used, 0.4 to 0.8 medium category or can be used with improvement, and 0.8 to 1.00 including the high category or can be used for research. The results of the analysis can be seen in Table 1.

Table 1
The Result of Aiken's V

Resource				Process				Output			
Item	Σ	V	Criteria	Item	Σ	V	Criteria	Item	Σ	V	Criteria
GS1	24	0.889	High	TP1	19	0.70	Moderate	Kn1	20	0.74	Moderate
GS2	22	0.815	High	TP2	24	0.89	High	Kn2	23	0.85	High
GS3	24	0.889	High	TP3	23	0.85	High	Kn3	23	0.85	High
GS4	24	0.889	High	TP4	22	0.81	High	Kn4	25	0.93	High
SS1	9	0.333	Low	Im1	10	0.37	Low	At1	26	0.96	High
SS2	25	0.926	High	Im2	22	0.81	High	At2	7	0.26	Low
SS3	26	0.963	High	Im3	23	0.85	High	At3	21	0.78	Moderate
SS4	23	0.852	High	Im4	21	0.78	Moderate	At4	22	0.81	High
SS5	22	0.82	High	Im5	18	0.67	Moderate	Sk1	22	0.81	High
SM1	21	0.78	Moderate	FA1	6	0.89	High	Sk2	21	0.78	Moderate
SM2	21	0.78	Moderate	FA2	25	0.93	High	Sk3	25	0.93	High
SM3	9	0.33	Low	FA3	24	0.89	High	Sk4	25	0.93	High
SM4	21	0.78	Moderate	FA4	23	0.85	High	ED1	22	0.81	High
Eq1	24	0.89	High	SA1	25	0.93	High	ED2	10	0.37	Low
Eq2	23	0.85	High	SA2	10	0.67	Moderate	ED3	21	0.78	Moderate
Eq3	21	0.78	Moderate	SA3	23	0.85	High	ED4	24	0.89	High
Eq4	22	0.82	High								
Eq5	21	0.78	Moderate								
Ma1	24	0.89	High								
Ma2	23	0.85	High								
Ma3	22	0.82	High								
Ma4	22	0.82	High								
Ma5	10	0.37	Low								
Fu1	26	0.96	High								
Fu2	24	0.89	High								
Fu3	25	0.93	High								
Fu4	7	0.26	Low								
Fu5	20	0.74	Moderate								

Information:

Σ =Total of the score of experts minus 1

V= Coefficient of Aiken's validity

Based on Table 1, it can be concluded that there are seven items have the low or invalid category. Seven invalid items consist of four items (SS1, SM3, Ma1, Fu4) of the resource factor, one item (Im1) of process factor, and two items (At2 and ED2) of the resources factor. The seven items are considered not to be used to evaluate local curriculum developed by local governments.

Small-Scale Trial

Small-scale trial data were analyzed using confirmatory factor analysis (CFA). Before the data is analyzed using CFA, empirical data obtained in the field must be assessed Kaiser-Meyer-Olkin Measure of Sampling Adequacy (KMO) to ensure the samples used deserve analyzed factors. The results of the analysis can be seen in Table 2.

Table 2
The values of KMO and Bartlett's Test

Factor	Resource	Process	Output
Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	0.913	0.921	0.905
Bartlett's Test of Sphericity	Approx. Chi-Square	1342.037	807.664
	df	276.000	105.000
	Sig.	0.000	0.000

Based on Table 2 that the value of KMO > 0,5 and Bartlett's Test of Sphericity of 0.00 ($\alpha < 0.05$) for all factors. The value indicates that the sample used is eligible for analysis using factor analysis. Furthermore, it can be seen Summary loading factor of each item analyzed using confirmatory factor analysis. The results of the analysis can be seen from Table 3.

Table 3
Results Analysis of Confirmatory Factor Analysis

Resource			Process			Output		
Item	Loading Factor	Criteria	Item	Loading Factor	Criteria	Item	Loading Factor	Criteria
GS1	0.48	Valid	TP1	0.58	Valid	Kn1	0.57	Valid
GS2	0.58	Valid	TP2	0.62	Valid	Kn2	0.59	Valid
GS3	0.73	Valid	TP3	0.62	Valid	Kn3	0.65	Valid
GS4	0.68	Valid	TP4	0.56	Valid	Kn4	0.46	Valid
SS2	0.43	Valid	Im2	0.56	Valid	At1	0.59	Valid
SS3	0.59	Valid	Im3	0.45	Valid	At3	0.40	Invalid
SS4	0.45	Valid	Im4	0.67	Valid	At4	0.55	Valid
SS5	0.69	Valid	Im5	0.59	Valid	Sk1	0.50	Valid
SM1	0.45	Valid	FA1	0.56	Valid	Sk2	0.54	Valid
SM2	0.55	Valid	FA2	0.59	Valid	Sk3	0.61	Valid
SM4	0.34	Invalid	FA3	0.67	Valid	Sk4	0.49	Valid
Eq1	0.59	Valid	FA4	0.63	Valid	ED1	0.52	Valid
Eq2	0.45	Valid	SA1	0.56	Valid	ED3	0.64	valid
Eq3	0.64	Valid	SA2	0.57	Valid	ED4	0.57	Valid
Eq4	0.43	Valid	SA3	0.42	Valid			
Eq5	0.44	Valid						
Ma1	0.44	Valid						
Ma2	0.56	Valid						
Ma3	0.60	Valid						
Ma4	0.48	valid						
Fu1	0.68	Valid						
Fu2	0.60	Valid						
Fu3	0.69	Valid						
Fu5	0.36	Invalid						

Based on Table 3, there are three invalid items, consisting of two items (SM4 and Fu5) of the resource factor and one item (At3) of the output factor. Invalid items considered to be discarded and not included to evaluate the local curriculum developed by the local government. From the 53 items tested empirically only 50 items that can be used to evaluate the local curriculum developed by local governments with a loading factor of more than 0.4.

Reliability

Reliability of the instrument using Cronbach's Alpha coefficient (Cronbach & Shavelson, 2004). A good reliability value if the Cronbach's Alpha coefficient is more than 0.7. The results of the analysis can be seen in Table 4.

Table 4
Reliability Statistics

Factor	N of Item	Cronbach's Alpha
Resources	24	0.907
Process	15	0.878
Output	14	0.848

Based on Table 4, it can be concluded that the developed instrument has a qualified Cronbach's Alpha coefficient so that the instrument can be used to evaluate the local curriculum developed by the local government.

The large-scale trial

The large-scale trial is performed to see the validity and reliability of the constructs obtained from the factors or components to be evaluated. Constructs or indicators obtained from factors will see validity and reliability. This is done to prove that the constructs found through FGD and literature review are valid and reliable. Validity and Reliability were analyzed with CFA using with the help of Lisrel 8.80 software. The results of the analysis can be seen in Table 5.

Table 5
The Construct Analysis Result of Confirmatory Factor Analysis

Variable	Indicator /Construct	λ	Category
Resource	Government Support	0.76	Valid
	School Support	0.72	Valid
	Student Motivation	0.63	Valid
	Equipment	0.75	Valid
	Material	0.79	Valid
	Fund	0.78	Valid
Prosess	Teaacher Preparation	0.78	Valid
	Implementation	0.86	Valid
	Formative Assessment	0.84	Valid
	Summative Assessment	0.73	Valid
Output	Knowledge	0.82	Valid
	Attitude	0.84	Valid
	Skill	0.71	Valid
	Entrepreneurial desires	0.41	Valid

Based on Table 5, the collapse validity value is more than 0.4. the results of the analysis in Table 5 explain that the constructs of the resource, process, and output factors have acceptable validity values and can be used to evaluate local curriculum developed by local governments. From the analysis results obtained the value of Chi-Square = 69.49, $df = 77$, P-Value = 0.71626, Root Mean Square Effort of Measurement (RMSEA) =

0.000, Goodness of Fit Index = 0.97 and Adjusted Goodness of Fit Index (AGFI) = 0.96, Normed Fit Index (NFI) = 0.99. Based on the value of Goodness of Fit can be concluded that the data obtained the fit with measurements developed. The construct reliability can be seen in Table 6.

Table 6
Summary of Construct Reliability Analysis

Variable	Indicator/Construct	λ	Error	CR
Resource	Government Support	0.76	0.43	0.877
	School Support	0.72	0.49	
	Student Motivation	0.63	0.60	
	Equipment	0.75	0.44	
	Material	0.79	0.38	
	Fund	0.78	0.39	
Prosess	Teaacher Preparation	0.78	0.40	0.878
	Implementation	0.86	0.25	
	Formative Assessment	0.84	0.30	
	Summative Assessment	0.73	0.47	
Output	Knowledge	0.82	0.34	0.797
	Attitude	0.84	0.30	
	Skill	0.71	0.50	
	Entrepreneurial desires	0.41	0.83	

Based on Table 6, it can be concluded that the construct reliability results is greater than 0.7 of the resource, process and output factors. The reliability coefficients obtained from Table 6 show that the instrument resources, processes, and outputs can be used to evaluate the local curriculum.

The effectiveness of The Instrument

Assessment of the effectiveness of the instrument is conducted to see how far the developed instrument is comprehensive, effective in getting information, easy to use, and useful for instrument users to evaluate the local curriculum. Assessment is done 6 vice principals 12 local curriculum teachers who have implemented the instrument. The results of the assessment can be seen in Table 7.

Tabel 7
The Effectiveness of Developed Instrument

Aspects Assessed	N	Min	Max	Mean	Std. Deviation	Category
The instrument developed is comprehensive	18	2.00	4.00	3.22	.73	Good
The instrument developed is accurate	18	2.00	4.00	3.56	.70	Very Good
The instrument developed is easy to use	18	3.00	4.00	3.50	.51	Very Good
The instrument developed is useful	18	2.00	4.00	3.61	.61	Very Good

From the assessment of the vice principal and the local curriculum teacher, the average score was obtained from 3.22 to 3.61. Principals and teachers assess all aspects of the effectiveness of the instruments are in very good and good category. Assessment of vice principals and teachers indicates that the instruments developed are effective in

obtaining information about the local curriculum. In other words, the instruments used are effective in obtaining accurate data on local curriculum implementation.

DISCUSSION AND CONCLUSION

To evaluate the local curriculum developed by the local government requires a valid and reliable instrument since valid instruments can provide accurate information on the weaknesses and deficiencies of the developed curriculum by local government. Instruments must be valid and reliable in content and construct since the validity and reliability are important parts of the development of the instrument (Wynd, Schmidt, & Schaefer, 2003). Validity and reliability are used to ensure the measurement runs maximally and the implementation of educational programs goes well (Wright & Craig, 2011). Reliability and validity are the entities required in instrumental development (Burton & Mazerolle, 2011). Researchers who develop instruments in the field of education, psychology and other social need to pay attention to the importance of the concept of validity and reliability so that information needed to support research can be obtained accurately.

The instrument developed to evaluate local content curriculum is effective. The instrument is comprehensive, easy to use, accurate in obtaining information about the weaknesses and strengths of the local curriculum and is very beneficial to governments and schools. Effective instruments will make it easier for users to access information that hinders a program's success (Tooth, Nielsen, & Armstrong, 2013). Effective instruments can describe the components that need to be improved so as to contribute strongly to improve a developed program. A valid, reliable and proven effective instruments will show the results of measurement, so stakeholders can improve the shortcomings of educational programs (Widodo & Sudarsono, 2016).

The instruments developed to evaluate the local curriculum consist of, resource instruments, process instruments, and output instruments. The result of validation by the expert shows that there are 7 items invalid items and can not be used to evaluate the local curriculum. The results of the validity and reliability analysis on small-scale trials show that there are 3 invalid items, consisting of 2 of the resource factors and 1 of the output factors. The results of the analysis of large-scale trials show that all constructs derived from the FGD and the study of literature have a value of valid and reliable instrument that can be used to evaluate the local curriculum. Of the 60 items developed, only 50 items could be used to evaluate the local curriculum, consisting of 22 items from the resource factor, 15 items from the process factor and 13 items from the output factor. The developed measurements meet the statistical Goodness of Fit criteria. The instruments have been developed effectively to evaluate local curriculum developed by local governments.

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