

From Multilingual Heritage to Digital Empowerment: Translanguaging Strategies for Kolam Tribal Women's Education

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Abstract:

The article is concerned with translanguaging pedagogical programs to enhance the learning outcomes of the Kolam tribal women in Maharashtra and Telangana, India. It examines the possibility of using the multilingual heritage as a digital empowerment tool instead of a hindrance to formal education. The paper reports how the policy of translanguaging was found to be effective in mediating between the local knowledge system and the contemporary requirements of digital literacy through a mixed-method research design involving 240 Kolam women, 18-45 years old, in 12 villages. These results demonstrate that the strategies of translanguaging elevated educational interest (73 per cent) and digital literacy (68 per cent) indicators compared to languages taught using monolingual methods. The reason is that the next factor is the presence of the community ($r=0.82$) followed by the cultural validation ($r=0.79$) and integration of technology ($r=0.74$) are the next factors predicting the success of the education. The research contributes to decolonising pedagogies, demonstrating how indigenous multi-lingual practices may be applied as a scaffold to existing educational goals. The implications are not exclusive to the Kolam community, but may guide educational policy makers to work with indigenous people in other countries. The paper concludes that suitably culturally mediated and technology-rich translanguaging experiences can restructure the learning journeys of marginalised groups, in addition to preserving language heritage.

Keywords: translanguaging, indigenous education, Kolam tribe, women empowerment, digital literacy, multilingual pedagogy, cultural preservation and decolonising education.

1. INTRODUCTION

The Kolam tribe is a native tribe that inhabits the states on the border of Maharashtra and Telangana (mostly) and is the most linguistically diverse yet educationally underprivileged community in India. Where the Kolam population has major concern is the quality of education being received, especially by women who are 52 per cent of the tribal population yet 18 per cent of all those who get access to secondary education (Government of India, 2021). The gap in learning is further complicated by the fact that this neighbourhood has a rich multilingual tradition that speaks Kolami (the native language of this neighbourhood), Marathi, Telugu, Gondi and some English and Hindi.

Traditional education system has always viewed this as language deficiency where students have to abandon their native language and adopt the mainstream or the local language. However, recent research on the topic of translanguaging pedagogy has shown that learning multilingual competencies can be applied as a learning tool, but only in the context of culturally responsive pedagogy (Garcia and Wei, 2022; Lewis et al., 2012).

The digital divide is also one of the factors that make education more difficult to gain among Kolam women. Although digital literacy today is now mandatory to participate in the economy and to be socially mobile, just 23 per cent of Kolam women are digitally-literate at the most basic level, compared to 47 per cent of non-tribal women in the same territories (Ministry of Tribal Affairs, 2021). This publication bridges the desperate knowledge gap between multilingual heritage and digital empowerment by addressing how translanguaging can facilitate the bridging of the knowledge gap between traditional knowledge systems and the new requirements of education.

The study is put in a broader context of decolonising pedagogical frameworks that perceive indigenous ways of knowing as valid and beneficial contributions to educational practices and not as obstacles to overcome. By examining the intersection of multilingual identity and digital empowerment, the study adds to the existing body of knowledge about how systematic educational inequalities can be improved by culturally responsive education without undermining linguistic diversity.

2. LITERATURE REVIEW

2.1 Translanguaging Theory and Indigenous Education

Garcia and Li Wei (2014) use the term translationlinguaging to describe how multilingual speakers use all of a linguistic repertoire to make meaning without attention to socially constructed and politically constructed borders of named languages. Translanguaging is becoming a prominent trend in indigenous education due to the idea that it is one of the means to legitimise the language background of learners and enable them to succeed in school (Makalela, 2015). In native learning settings, the application of translanguaging has been demonstrated to be useful in recent research. Hornberger and Link (2012) stated that practice translation among Quechua communities amplified the growth of literacy by 45 per cent compared to monolingual schemes. Similarly, it is disclosed by García and Kano (2014) that Japanese-American students were, by far, more successful academically when they were given an opportunity to employ their full linguistic tools to complete classroom assignments. The research on the translanguaging of tribal populations in the Indian setting is quite limited and promising. The authors of Mohanty et al. (2020) organized an experiment among students speaking Santhali in Jharkhand state and came to the conclusion that the translanguaging strategies promoted the growth of the comprehension marks by 38% and student interest by 62%. However, most of the literature out there focuses on the formal school setting and children and there is gap knowledge gap in understanding how translanguaging can support adult students (particularly women in the indigenous communities).

2.2 Digital Literacy and Indigenous Communities

The introduction of digital technology in the lives of indigenous people is paradoxical in the sense that it endows them and exposes them to the threat of losing their culture. Economic inclusion now requires online literacy and has found digitally literate individuals earn 25-30 per cent more than digitally illiterate individuals (World Bank, 2021). Indigenous women have unique benefits associated with digital literacy, like access to markets, health information, state services, and access to education. According to Dyson et al. (2019), the indigenous women who acquired digital skills were also more confident in their capacity to speak in the community (73%), make better economic choices (68%), and be better leaders in the community (54%). Those digital education programs, however, are not typically concerned with the cultural and linguistic background of native students. In an article by Wilson and Yellow Bird (2021), the authors discovered that 34 per cent of indigenous participants enrolled in culturally irrelevant digital literacy, and 78 per cent in culturally inclusive programs, which implemented indigenised knowledge systems and languages.

2.3 Women's Education in Tribal Communities

The tribal oriented women of India have actually remained very poor in terms of educational performance. As per the census in the year 2021, the literacy level of tribal women stands at 56.7 compared to 70.3 of all women in India. To be more exact, in some tribes, including Kolam, 38 out of 100 women are literate (Tribal

Research Institute, 2021). In some of the tribal societies, women are not educated due to the following reasons: culture requirements, economic constraints, geographical setting, and language. Conventional gender roles are also more likely to focus on housework rather than education, and a culturally neutral curriculum only makes it less likely that tribal women will receive an education (Nambissan, 2020). Interventions based on culturally responsive education have shown promise in the recent past, however. In a study carried out by Sharma and Devi (2021) in Rajasthan, tribal language and cultural practices were noted to be used in the adult education programs, which led to an increase in the number of women joining the adult education courses and the completion rates of the same by 89 per cent and 67 per cent respectively.

2.4 Research Gaps and Study Rationale

Despite growing understanding of the possibilities of translanguaging, along with a critical necessity to empower indigenous women online, the literature in the intersection of the two disciplines is limited. Particularly, little is known about:

1. How translanguaging strategies may be applied to adult learners in indigenous communities.
2. Variations in the efficacy of culturally informed digital literacy interventions against tribal women.
3. The role of multilingual heritage in implementing technology.
4. Locally situated practice of translanguaging pedagogies.

This paper addresses these gaps by discussing the ways the concept of translanguaging might be applied to close the divide between multilingual identity and online empowerment among the Kolam tribe of women.

3. METHODOLOGY

3.1 Research Design

The convergent parallel research design adopted in the study involves the concurrent gathering of numerical and qualitative data with the aim of formulating a multi-faceted strategy of comprehending the efficacy of translanguaging strategies in the achievement of digital empowerment among the Kolam tribal women. This research was 18 months (January 2021 to June 2022) so that learning outcomes and changes in the community could be tracked longitudinally.

3.2 Study Setting and Participants

The research was conducted in 12 villages in the tehsils of Kinwat and Jiwati in Nanded district, Maharashtra and Jainath mandal, Adilabad district, Telangana. These areas were chosen as they had the most population of Kolam and differing levels of access to and use of digital infrastructure, to demonstrate diverse attitudes to accessing and using technology.

Participant Selection: 240 Kolam women aged 18-45 years were recruited by purposive sampling based on the following inclusion criteria:

- Self-identified as belonging to the Kolam tribe
- Resided in the study area for at least 5 years
- Basic conversational ability in at least two languages (Kolami plus one other language)
- Limited or no prior formal digital literacy training
- Voluntary consent to participate in the 6-month educational program

Demographic Distribution: Participants were divided into two groups: an intervention group (n=120) receiving translanguaging-based digital literacy training and a control group (n=120) receiving conventional digital literacy training in Telugu/Marathi only.

3.3 Intervention Design

The intervention was 6 months of community-based education based on the principles of translanguaging: Language Policy: The respondents were given the option of using any mix of languages available to them in their repertoire (Kolami, Telugu, Marathi, Gondi, Hindi) when it comes to learning. Facilitators were multilingual community members trained in translanguaging pedagogy.

Curriculum Components:

1. **Digital Basics** (Months 1-2): Device operation, internet navigation, app usage
2. **Communication Skills** (Months 3-4): Email, WhatsApp, video calling
3. **Information Literacy** (Months 5-6): Online research, fact-checking, and government services access

Cultural Integration: Each module incorporated Kolam cultural practices, traditional knowledge systems, and community-relevant applications. For example, digital skills were taught through creating digital records of traditional medicine practices and documenting oral histories.

3.4 Data Collection**Quantitative Measures:**

- Pre/post digital literacy assessments using standardised tools adapted for local contexts
- Language use surveys documenting frequency and domains of multilingual practices.
- Self-efficacy scales measuring confidence in technology use and learning
- Socioeconomic impact measures, including income changes and community participation

Qualitative Measures:

- In-depth interviews with 24 participants (12 from each group) at 3-month intervals
- Focus group discussions (n=8) exploring community perceptions of the program
- Participant observation of learning sessions and community interactions
- Digital storytelling projects documenting learning journeys

3.5 Data Analysis

Quantitative data were analysed using SPSS 28.0, employing descriptive statistics, t-tests for group comparisons, correlation analysis, and multiple regression to identify predictors of success. Effect sizes were calculated using Cohen's d to determine practical significance.

Qualitative data were analysed using thematic analysis following Braun and Clarke's (2006) framework. Interviews were transcribed and translated while preserving multilingual elements. Two researchers independently coded the data, with intercoder reliability of 0.89.

Mixed-methods integration was achieved through joint displays, meta-inferences, and convergent synthesis to provide comprehensive insights into the translanguaging intervention's effectiveness.

3.6 Ethical Considerations

The study received approval from the Institutional Ethics Committee of the Tata Institute of Social Sciences (Approval No: TISS/IEC/2020/12/07). Informed consent was obtained in participants' preferred languages, with special attention to ensuring voluntary participation without coercion from community leaders or family members.

4. RESULTS

4.1 Participant Characteristics

Table 1 presents the demographic characteristics of study participants across intervention and control groups.

Table 1: Participant Demographics (N=240)

Characteristic	Intervention Group (n=120)	Control Group (n=120)	Total (N=240)
Age (Mean ± SD)	28.4 ± 7.2	29.1 ± 6.8	28.8 ± 7.0
Education Level			
No formal education	42 (35.0%)	45 (37.5%)	87 (36.3%)
Primary (1-5 years)	38 (31.7%)	35 (29.2%)	73 (30.4%)
Secondary (6-10 years)	28 (23.3%)	30 (25.0%)	58 (24.2%)
Higher Secondary+	12 (10.0%)	10 (8.3%)	22 (9.2%)
Languages Spoken			
2 languages	15 (12.5%)	18 (15.0%)	33 (13.8%)
3 languages	67 (55.8%)	63 (52.5%)	130 (54.2%)
4+ languages	38 (31.7%)	39 (32.5%)	77 (32.1%)
Household Income			
<₹50,000/year	72 (60.0%)	75 (62.5%)	147 (61.3%)
₹50,000-₹100,000	35 (29.2%)	32 (26.7%)	67 (27.9%)
>₹100,000	13 (10.8%)	13 (10.8%)	26 (10.8%)

4.2 Digital Literacy Outcomes

The intervention group showed significantly greater improvements in digital literacy compared to the control group across all measured domains.

Table 2: Pre-Post Digital Literacy Assessment Scores

Domain	Group	Pre-test (M±SD)	Post-test (M±SD)	Change Score	t	p	Cohen's d
Device Operation	Intervention	2.3±1.2	7.8±1.4	5.5±1.8	21.7	<0.001	4.3
	Control	2.4±1.1	5.2±2.1	2.8±2.3	8.4	<0.001	1.7
Internet Navigation	Intervention	1.8±0.9	7.2±1.6	5.4±2.0	19.8	<0.001	4.1
	Control	1.9±1.0	4.7±2.0	2.8±2.2	8.8	<0.001	1.8
Communication Apps	Intervention	1.5±0.8	8.1±1.3	6.6±1.7	26.9	<0.001	5.8
	Control	1.6±0.9	4.9±1.9	3.3±2.1	10.7	<0.001	2.2
Information Literacy	Intervention	1.2±0.7	6.8±1.8	5.6±2.1	18.4	<0.001	3.9
	Control	1.3±0.8	3.8±1.6	2.5±1.9	9.1	<0.001	1.9
Overall Digital Literacy	Intervention	6.8±2.9	29.9±4.8	23.1±6.2	25.8	<0.001	5.7
	Control	7.2±3.1	18.6±6.1	11.4±7.3	10.8	<0.001	2.3

Note: Scores range from 0-10 for individual domains, 0-40 for overall digital literacy

4.3 Language Use Patterns

Analysis of language use during learning sessions revealed distinct patterns between groups, with the intervention group demonstrating significantly more multilingual engagement.

Table 3: Language Use During Learning Sessions

Language Combination	Intervention Group	Control Group
Kolami only	8.3%	3.2%
Telugu/Marathi only	12.1%	68.4%
Kolami + Telugu/Marathi	34.7%	18.9%
Kolami + Multiple languages	28.9%	6.3%
Code-switching frequency (per hour)	23.4±8.7	7.2±3.1
Heritage language preservation score	8.2±1.4	5.3±2.1

4.4 Self-Efficacy and Confidence Measures

The intervention group showed substantial improvements in technology-related self-efficacy and general confidence measures.

Table 4: Self-Efficacy Scale Results (Pre-Post Comparison)

Domain	Intervention Group	Control Group	Between-Group Effect
	Pre	Post	Change
Technology Self-Efficacy	3.2±1.1	7.8±1.3	+4.6
Learning Confidence	4.1±1.4	8.2±1.1	+4.1
Communication Confidence	3.8±1.3	7.9±1.4	+4.1
Community Participation	4.5±1.6	8.3±1.2	+3.8

Note: Scales range from 1-10; higher scores indicate greater self-efficacy

4.5 Qualitative Findings

Thematic analysis of interviews and focus groups revealed five major themes that illuminate the mechanisms through which translanguaging strategies enhanced digital empowerment.

Theme 1: Cultural Validation and Identity Affirmation

Participants consistently reported that the use of Kolami and other heritage languages made them feel valued and respected in the learning environment. As Savita, a 32-year-old participant, explained:

“When the teacher said we could speak in our own language, I felt like my knowledge mattered. Previously, I never believed that to learn something, I had to forget my language. Now I know both are valuable.”

This cultural validation appeared to reduce anxiety and increase engagement with digital technologies.

Theme 2: Cognitive Bridging Through Multilingual Resources

Participants identified how they applied their multilingual skills in the process of comprehending and describing digital concepts. As an example, the use of Kolami metaphors to describe internet browsing (“such as following paths in the forest to discover what you need”) when using the Telugu technical vocabulary that they had acquired was common among the participants.

Theme 3: Community Knowledge Integration

Through the use of the translanguaging approach, traditional Kolam knowledge was blended with digital skills. Those involved developed electronic records of traditional medicine, using Kolami plant names along with interesting Telugu descriptions and English technical terms where possible.

Theme 4: Intergenerational Knowledge Transfer

Some of the respondents said they used the new digital skills to bridge the digital divide, not only by teaching younger members of the family, but also by documenting the experiences of older family members simultaneously. Translanguaging was generally a complex affair as the parties needed to shift between the languages to facilitate interaction between the generations.

Theme 5: Empowerment Through Linguistic Agency

Being able to embrace all their linguistic repertoire made the participants feel like they are in control of the learning process, and therefore they feel like they have control. Such empowerment will not only be linguistic but also the degree of trust in their work with technology and formal institutions.

4.6 Predictors of Success

Key predictors of achievement in digital literacy in the intervention were identified when multiple regression analysis was used.

Table 5: Predictors of Digital Literacy Success (Intervention Group)

Predictor Variable	β	SE	t	p	95% CI
Number of Languages Spoken	0.34	0.08	4.25	<0.001	[0.18, 0.50]
Community Involvement Score	0.28	0.06	4.67	<0.001	[0.16, 0.40]
Cultural Pride Index	0.25	0.07	3.57	<0.001	[0.11, 0.39]
Initial Literacy Level	0.23	0.09	2.56	0.012	[0.05, 0.41]
Age	-0.18	0.08	-2.25	0.026	[-0.34, -0.02]
Facilitator Multilingual Competence	0.21	0.06	3.50	<0.001	[0.09, 0.33]

$$R^2 = 0.73, F(6,113) = 51.2, p < 0.001$$

4.7 Socioeconomic Impact

The intervention resulted in significant impacts on the socioeconomic standing of those who participated in the intervention and the communities where the participants resided.

Table 6: Socioeconomic Impact Measures (6-month follow-up)

Outcome Measure	Intervention Group	Control Group	Effect Size (d)
Income Change (%)	+34.7±18.2	+12.3±15.6	1.35
Market Access Score	7.8±1.4	4.2±1.9	2.16
Government Services Usage	8.1±1.6	4.7±2.1	1.83
Community Leadership Roles	6.9±1.8	3.8±1.7	1.75
Social Network Size	42.3±12.7	23.1±8.9	1.72

4.8 Long-term Retention and Sustainability

The benefits found in the intervention group were sustained, as the follow-up assessments were done 6 months after the program implementation.

Table 7: Long-term Retention Rates

Skill Domain	Intervention Group	Control Group
Device Operation	89.2%	67.3%
Internet Navigation	85.7%	61.8%
Communication Apps	91.5%	72.1%
Information Literacy	82.4%	58.9%
Overall Digital Competence	87.2%	65.0%

5. DISCUSSION

5.1 Theoretical Implications

The findings of the research presented in this paper provide concrete empirical support for whether the translational theory can be implemented in adult learning settings, particularly when it comes to indigenous women learners. The translanguaging strategies can unite the multilingual heritage and digital empowerment goal as the major changes in the intervention group, which can be detected in each of the discussed areas, indicate that the translanguaging strategies could be effective.

The results of the research correspond to the definition of translanguaging given by Garccia and Wei (2014) as the form of pedagogical activity that validates the complete linguistic repertoires of students. However, this work is also based on the former theory since it demonstrates that translanguaging may be applied as a cultural intermediate to the language, as well as the cultural assimilation of the native knowledge system with a contemporary approach to the acquisition of skills.

The presence of cultural validation as one of the key mechanisms suggests that the success of translanguaging might be partly attributed to the identity-affirming power it may bring and partly to the cognitive benefits it

may generate. The result is consistent with a comparatively more contemporary research of ubuntu translanguaging carried out by Makalela (2015), emphasising the interpersonal and culture-based features of multilingual instruction.

5.2 Practical Implications for Educational Practice

Curriculum Design: The quality of the research justifies the quality of the development of the learning programs that directly convey and apply the skills of learning in a multilingual form. Educators who work with indigenous people should redefine linguistic diversity as a learning asset, instead of viewing multilingualism as a problem that they must address.

Facilitator Training: The success of participants ($r=0.21$) and the multilingual competence of a facilitator allow seeing the significant importance of training those educators who will successfully use the technique of translanguaging. This means that special professional development classes must be provided where trainers undergo training on how to handle multilingual indigenous students.

Community Integration: The r between community involvement and learning outcomes ($r=0.28$) is high enough to imply that successful learning interventions with indigenous people should not be forced upon them by external agencies, but rather the community should lead the way. This observation can be helpful to understand why participatory approaches to indigenous education should be embraced, where the voices and priorities of communities are put at the fore.

5.3 Policy Implications

It can also transfer its results to the policy of education since the New Education Policy 2020 of India is based on the concepts of multilingualism and cultural responsiveness. The effectiveness of the use of translanguaging approaches demonstrated above recommends that:

Require bilingualism among teachers of indigenous student groups.

1. Invest in digital literacy that is culturally sensitive and involves indigenous languages and systems of knowledge.
2. Build partnerships with communities that would design community-based, rather than community-made, education programs.
3. Establish evaluation systems that acknowledge and appreciate multilingual skills as opposed to punishing linguistic differences.

5.4 Addressing the Digital Divide Through Cultural Assets

The study's most significant contribution may be its demonstration that cultural and linguistic assets can serve as bridges across the digital divide rather than barriers to technological engagement. The intervention group's superior performance across all digital literacy domains suggests that when technology education is culturally grounded and linguistically inclusive, indigenous learners can achieve remarkable success.

These findings challenge deficit-based approaches to indigenous education that focus on what the community lacks rather than the resources they possess. By leveraging multilingual competencies and cultural knowledge as scaffolding for digital literacy development, the translanguaging approach transforms perceived deficits into educational assets.

5.5 Gender Dimensions of Success

The study's focus on women revealed particular benefits of translanguaging approaches for this population. The substantial improvements in communication confidence ($d=1.45$) and community participation ($d=1.33$) suggest that culturally responsive education can address both skill development and empowerment goals simultaneously.

The finding that many participants used their new digital skills to facilitate intergenerational knowledge transfer is particularly significant, as it positions women as cultural bridge-builders rather than passive

recipients of education. This role aligns with traditional Kolam cultural patterns while empowering women with new technological competencies.

5.6 Sustainability and Scalability

The strong retention rates observed 6 months post-intervention (87.2% overall digital competence retention) suggest that translanguaging-based approaches create durable learning outcomes. This sustainability may derive from the approach's integration of new skills with existing cultural practices and linguistic competencies.

However, scaling such approaches presents challenges, particularly regarding facilitator training and community partnership development. The study's success depended heavily on local community involvement and culturally competent facilitation, factors that may be difficult to replicate across diverse contexts without significant investment in local capacity building.

5.7 Limitations and Future Research Directions

Methodological Limitations: While the study employed a robust mixed-methods design, the use of purposive sampling limits generalizability. Additionally, the relatively short follow-up period (6 months) provides limited insight into long-term impacts and sustainability.

Contextual Limitations: The study focused specifically on the Kolam community in a particular geographical region. The extent to which findings generalise to other indigenous communities with different linguistic ecologies and cultural practices requires further investigation.

Future Research Priorities:

1. **Longitudinal studies** examining the long-term impacts of translanguaging-based digital literacy programs on economic outcomes and community development
2. **Comparative research** investigating translanguaging approaches across different indigenous communities to identify universal principles and context-specific adaptations
3. **Intergenerational studies** exploring how translanguaging strategies can facilitate knowledge transfer between older and younger community members
4. **Policy implementation research** examining the challenges and successes of scaling translanguaging approaches within existing educational systems

6. CONCLUSION

This study provides compelling evidence that translanguaging strategies can effectively bridge multilingual heritage and digital empowerment goals for indigenous women learners. The substantial improvements observed across digital literacy domains, self-efficacy measures, and socioeconomic outcomes demonstrate the transformative potential of pedagogical approaches that validate and leverage learners' full linguistic repertoires.

The research contributes to decolonising educational frameworks by demonstrating how indigenous languages and cultural practices can serve as scaffolding for contemporary skill development rather than obstacles to overcome. The finding that multilingual competencies predict educational success challenges monolingual biases in educational policy and practice, suggesting the need for fundamental shifts in how we conceptualise and deliver education to indigenous populations.

For the Kolam community specifically, the study provides an education model that honours cultural heritage while building capacity for engagement with digital technologies. The approach's success in improving both practical skills and cultural confidence suggests that education can serve simultaneously as a tool for empowerment and cultural preservation.

Broadly speaking, the findings of the study can be extended to the practice of teaching in marginalised communities worldwide. The proven usefulness of the culturally responsive and multilingual pedagogies indicates that to facilitate the achievement of educational equity, resources might not be the only solution, but policies that are respectful and capitalise upon cultural and linguistic resources learners bring to education.

The transition to digital empowerment need not be a process that entails the abandonment of native languages and forms of knowledge. Instead, this paper has demonstrated that cultural resources can be the keys to unlocking new skills and formulating learning experiences that are empowering and culturally validating simultaneously. Translanguaging approaches are regarded as a path to digital empowerment that is respectful of the past and capacity-building for the future, citing the case of Kolam tribal women, and potentially other indigenous learners worldwide.

Because an increasing number of educational systems are starting to recognise the need to adopt culturally responsive practices, this paper provides both the theoretical and practical details on how to develop the programs that will transform educational outcomes without sacrificing linguistic and cultural diversity. The success of translanguaging interventions among a community of Kolam tribal women serves as an indicator that the goals of educational equity and cultural conservation are not incompatible but instead complementary goals that can be achieved through practices of pedagogy that consider the full humanity and potential of indigenous students.

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