मराठी
निरंजन
आवृत्ती १.६.३ — ११ मे, २०२१
https://gitlab.com/niruvt/marathi

सारांश
युनिकोडाचा वापर करून मराठीत अक्षरजुळणी अशा स्वरूपात आहे, परंतु सुलभ नाही. लाटेक्स सह मराठीत अक्षरजुळणी करताना आपली बीजधारिका अनेक आजांनी भरल जाते. हा आजासंच अशा सर्व उपयुक्त आजाआधीच लिहून ठेवतो. त्यामुळे नव्या वापरकर्त्यांना त्या नव्यांना शिकण्याचा लागत नाहीत. शिवाय blindtext हा आजासंचाप्रमाणे मराठीकर्ते नमुना मजकूर उपलब्ध करण्यासाठीची सांग खा आजासंचात करण्यात आली आहे.

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या दस्तऐवजात लाटेक्स-मध्ये प्रचलित असणारा अंग्रेजी संज्ञासाठी पर्याप्त मराठी संज्ञा वापरण्यात आल्या आहेत, हे सर्व प्रयोग तुलनेने नव्या असताने खाली दस्तऐवजात संज्ञा सूचीत सर्व संज्ञाची इंग्रेजी अर्थ दिले आहेत.

४
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९ प्रस्तावना

devecnagri dicsapthali takawachya aaja

लाटेक्-मध्ये मराठीच्या वापर करताना सर्वांत महत्वाची गरज म्हणजे देवनागरी लिपी नीट दिसणे. लाटेक् विकसित झाले तेच्या युकिनकोड ही प्राणीली अतिक्रमित नसल्याने टेक्, लाटेक् ह्यांसारख्या चालकांसाठी युकिनकोड अस्सरे वापरताना येत नाहीत, परंतु त्यांना युकिनकोड अस्सरी वापरणे लाटेक्- मध्ये करता येणाऱ्या ह्यांसारख्या विकस झाले. fontspec ह्या आज्ञासंचासह एखादा युकिनकोड-आधारित टेक् वापरणे व युकिनकोड-मजकूर येत झीलाटेक् अस्सरा लाटेक्-सोबत चालवणे ह्या नव्या चालकांचा विकास झाले. लाटेक्-मे मराठीचा वापर करताना सवत राशिव आज्ञा देवनागरी लपी नीट दसणे.

लाटेक्-वकळत झाले ते युकिनकोड अस्सरांनी नकोड ह्या अढळ अत नसणे. झीलाटेक्-सह मात्र देवनागरी व्यक्तिके दिसणे शक्य होत होते. २०२० चे टेक्-वितरण येईपथत व त्यांत हर्षवळ नवाची नवी आज्ञाली येईपथत लुआलाटेक् देवनागरी हाताळू शक्यत नाही. झीलाटेक्-सह मात्र देवनागरी व्यक्तिके दिसणे शक्य होत होते. देवनागरी योग्य तज्ञांनी दिसपथियांती वापर करणे अनिवार्य आहे. सभाच्या व्यवस्थेनुसार जोडासरे तुटक दिसतात (उदा. नमस् कार). त्यासाठी \setmainfont ह्या आज्ञेस Script=Devanagari असेल प्राचल थाये लागते. लाटेक्-तर्फ आपोआप पूरवले जाणाऱ्या नमुळे पूर्वांत युकिनकोड, त्यांपामध्ये म्हणजे (मांक, तळ) देवनागरीली वेद नाहीत. त्याकिरता ह्याच आज्ञासंचाचा उपशेष आहे. त्यासाठी Mapping=devanagarinumerals असेल आणण्याची एक प्राचल थाये लागते, परंतु हे प्राचल केवळ झीलाटेक्-सह काम करते. शिवाय लाटेक्-ला इंग्रजीच्या विविधता इतर कोणतीही भाषा करत मराठी लाटेक्-सोबत पूर्वस्थित इंग्रजी शब्दांची भाषांनंतर पुरवणारे वेद अस्सरा पीलित्सिपिया ह्यांच्याकडून आज्ञासंच वाहून भाषा निवडविल लागते. रोहत होण्यासाठी latex-mr ह्या फुलकेल ह्या सर्व अडचणांपेक्षा गोडींची तपशीलवार चर्चा झाली आहे.

सध्यापरिस्थितीत लाटेक्-चे किमान जाणा असलेल्या नव्या वापरकर्त्यांना मराठी लिपिसंचारी एवढा सगळा प्रचंड करायला लागणे म्हणजे ज्या फांडीवांनी असलो आहोत तीच तोडणारसारखे ह्याच असले. त्यासमुळे कॉन्वर्ट मराठी म्हणजे लाटेक्-चा किमान जाणासह \usepackage{marathi} एक आज्ञा हिंदून उतम देवनागरीकडून आर्यनुजुन्याची करता याची हा ह्या आज्ञासंचाचा उद्देश आहे. ह्या आज्ञासंचात फुडील आज्ञांचा समावेश आहे.

परिच्छेद ह्या आज्ञा केवळ एक मुद्रा परिच्छेद निर्माण करते. ह्या आज्ञा एकामागोमाग एक अनेकदा ताकाच्यात तितके परिच्छेद निर्माण केले जाऊ शकतात.
नमुना ही आजा सर्वप्रथम वापरला गेलेला लाटेक०-वर्ग पाहते व त्यानुसार त्या वर्गाच्या किमान किंमत दर्शवणारी एक फोलेट-धारिका निर्माण करते. उदाहरणार्थ लाटेक०, बुलेट, बेकर, बिजयातील केबल लाटेक०-वर्ग बदलत असाल, तर लाटेक०-ने तयार केलेल्या साहाय्य धारिका काही काळ्या अनपर्यंत अडचण दाखवतात. जुनी मान्यती शिळकट असत्याने त्या दिल्या जातात. धावून न जाता, बीजधारिका दोनदा चालवावी. सर्व अडचण दुरस्तत.
हे प्राचल वापरल्यास आज्ञासंचाची घडण कोणताही हस्तक्षेप केला जात नाही. अधिक माहितीसाठी २.२ वाचा. हा प्राचलाची किंमतदेखीत देता येते. उदा. \usepackage[अंतर=2]{marathi} अशा प्रकारे आज्ञासंच वापरल्यास ओळीमध्ये अंतर दुपट होते. कोणताही प्राचलाच्याच वापरल्यास आज्ञासंचाच्या मूळभूत अंतराच्या दूपट अंतर पुरवले जाते. पुढील कोष्ठकाचे अंतर हा प्राचलाचा वापर अधिक स्पष्ट होईल.

<table>
<thead>
<tr>
<th>आज्ञासंचा वापर</th>
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<td>मूळ अंतराच्या दूपट</td>
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<tr>
<td>\usepackage[अंतर=2]{marathi}</td>
<td>मूळ अंतराच्याचा अंतर फरक नाही.</td>
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<td>\usepackage[अंतर=2]{marathi}</td>
<td>मूळ अंतराच्या दूपट</td>
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</table>

कोष्ठक १: अंतर

\begin{document}
\parचेद
\अंतरबदल{लिकंमत}
\परिच्छेद
\अंतरबदल{५}
\परिच्छेद
\end{document}

२ आज्ञासंचाची घडण
आता आपण आज्ञासंचाची घडण व त्याच्याच उपयोग लक्षात घेऊयात.
१ (*package)
२ \ProvidesPackage{marathi}[2021-05-11 v1.6.3 झीलाटेक व लूआलाटेक-सह मराठीचा सुलभ वापर]
हा आजांसह आजासंचाची पायाभूत माहिती पुरवली. झेंडड काळ्यावत झांनी नित प्रकल्पावर नोंदवलेल्या हा तक्करीमुळे आजासंचाची संक्षिप्त माहिती पुरवण्याची पड्या मला वापरता आली.

2.9 अडचण दाखवणे

हा आजासंचाचा नित प्रकल्पावर नोंदवलेल्या तक्करीच विचार करून झी-लाटेक्स अथवा लुआलाटेक्स हा चालकाविकतित्व एखादा चालक वापरला गेल्यास वापरकर्त्यास चालक बदलण्याची सूचना दिली जावी हाककरता पुढील आजावती लिहिण्यात आली आहे.

```
\RequirePackage{iftex}
\iftutex
else
\PackageError{marathi}{Unsupported engine}{Only LuaLaTeX or XeLaTeX supported.}
\fi
\expandafter\endinput
```

2.2 अंतर

इंग्रजीमधील g, j, y अशी अक्षरे तर ह्या आज्ञाने जास्त खोल असावी अनेक अंतर आढळते नाही. देवनागरीचे तसेच मराठी अंतर आढळते नाही. कोणत्याही अक्षरे सोडले तर झांनी अनेक अंतर आढळते नाही. तर ह्याची अंतर आढळते नाही. ह्याच्या अंतराची संरक्षण करणे आवश्यक आहे. तर ह्याच्या अंतराचा संशोधन करणे आवश्यक आहे. ह्याची अंतर आढळते नाही. ह्याच्या अंतराची संरक्षण करणे आवश्यक आहे. ह्याच्या अंतर आढळते नाही. ह्याच्या अंतराची संरक्षण करणे आवश्यक आहे.
आमच्या काही सहकायांच्या मते हा निर्णय अतिशय उग्र आहे. त्यामुळे दस्तऐवजातील इतर काही ठिकाणच्या अंतरांकर सूक्ष्म परिणाम घडतात, जे टाढ्यांना अधिक इतः. त्यांमध्ये हा मताचा विचार करून हा आज्ञासंचात्या अंतर नाच्याच प्राचल विकसित केले आहे. त्याचा वापर कसी अनौठी होण्यासाठी अपच नाही, ते प्राचल वापरल्यास आज्ञासंचात्या अंतरात एकत्रित होत असत नाही. हा गुंतागुंतीच्या रचनेकरता पुढील आज्ञा समविश्व केल्या आहेत. हा आज्ञासंची जोनाथन जांगा एवढून व जुळ्याच्या टोप-आण्सर्जिंग उतरांची मदत झाली.
२.३ भाषा व टंक

लाटेक्-ला भाषा पुरवणारे babel व polyglossia हे दोन आज्ञासंच आहेत. babel आज्ञासंच लुआलाटेक् व झीलाटेक्-सह चांगले फलित देतो, त्यामुळे ह्या आज्ञासंचाळा मूलभूत भाषांतरे पुरवणारा आज्ञासंच मानून polyglossia हा आज्ञासंच बैकलिपिक ठेवला आहे. polyglossia आज्ञासंच केवळ झीलाटेक्-सह योग्य फलित देतो. टेक्ड निर्दारासाठी ह्यांची नौद्वयन्य झा तक्रारीमुळे भाषांतरे पुरवणारा आज्ञासंच निवडणुक खूप मदत झाली. शेंफिका हा उत्कृष्ट देवनागरी टंक टेक-निवडणुकसह येत असत्याने यांची निवड मूलटंक म्हणून करण्यात आली आहे. \टंक ह्या आज्ञासह मूलटंक बदलता येतो. \दुसराटंक ह्या आज्ञासह अधिकचे टंक निवडता येतात. सुशांत देवकुंवर ह्यांची गेल्पृथ्वीच्या नौद्वयन्य झा सुविधा-विनंतीलागरे टंकांमध्ये मराठी भाषेची निवड करून टंकण्याचा साधा दिला. आवृत्ती १.६.३पासून ह्या सुविधा आज्ञासंचावरून पुरवणारा येत आहे.
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<th>चालक</th>
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<th>अचूक भाषांतरे</th>
<th>देवनागरी अंक</th>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tbody>
</table>

कोष्ठक २: चालक व आजासंचांची तुलना
2.3.1 गणित

लाटेक्-मधील गणित-क्षेत्र हे केवळ इंग्रजी अक्षरांची अक्षरजुळणी करू शकते, त्यात देवनागरी अक्षरे व अंक ह्याचा समावेश करण्यासाठी काही आज्ञासंचाचे कार्य कसे करू शकते, त्यात देवनागरी मधील अंक व अक्षरे ह्याचा समावेश करणे आवश्यक ठरते. 
https://tex.stackexchange.com/a/535738/174620 ह्या उत्तरातील आज्ञावली वापर करून, त्यात देवनागरी चिन्हकोड अक्षरे व अंक के समावेश करत आहेत.

2.4 नमुना मजकूर

2.4.1 परिच्छेद

परिच्छेद ही आज्ञा दस्तऐवंजली कुठे वापरली तरी एक लहानसा परिच्छेद आपोआप छापणे जातो. त्याकरिता एक मजकूरे धारिका आज्ञासंचासोबत येते. ती आज्ञासंचात पुढील आज्ञांसोबत समावेश करत जेटली आहे.

2.4.2 दस्तऐवंजली

मागे मदत्या प्रामाण्याने नमुना मजकूर तयार करण्यासाठी ह्या आज्ञासंचाचा वापर करत येते, परंतु त्याकरिता लाटेक्-ला थोडी माहिती पुरवावी लागते. उदा. दस्तऐवंजली/ची लेखक, दस्तऐवंजलीचं शीर्षक इत्यादी. ही माहिती पुरवण्यासाठी विशेष तंत्र आहे. लाटेक्-मध्ये मुख्य दस्तऐवंजली सुरू होणार पूर्वडाही माहिती पुरवण्यासाठी आज्ञापीठ असते, तिथे ही माहिती पुरवली जाते, परंतु ह्यांनी फालत-धारिकेचा पावस्थून माहितीत ती नावे दिसू लागतात. ह्यासाठी आज्ञासंचाचा वापर ही माहिती पुरवली गेली नाही आहे, ह्यांनी सोबत जोडलेल्या वेबसाइटला दस्तऐवंजली मध्ये ती माहिती पुरवली गेली आहे. त्या धारिकेचा केवळ नमुना मजकूर पुरवण्यासाठी आहे. निर्मितीला लाटेक्-ला जोडलेल्या संबंधित धारिकेच्या प्रमाणे व दस्तऐवंजली मध्ये संबंधित लेखक рыा लाटेक्-ला जोडलेल्या मजकूर-वर्गसाठी संबंधित धारिकेच्या प्रमाणे व दस्तऐवंजली मध्ये संबंधित लेखक рыा लाटेक्-ला जोडलेल्या मजकूर-वर्गसाठी संबंधित धारिकेच्या प्रमाणे.
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