



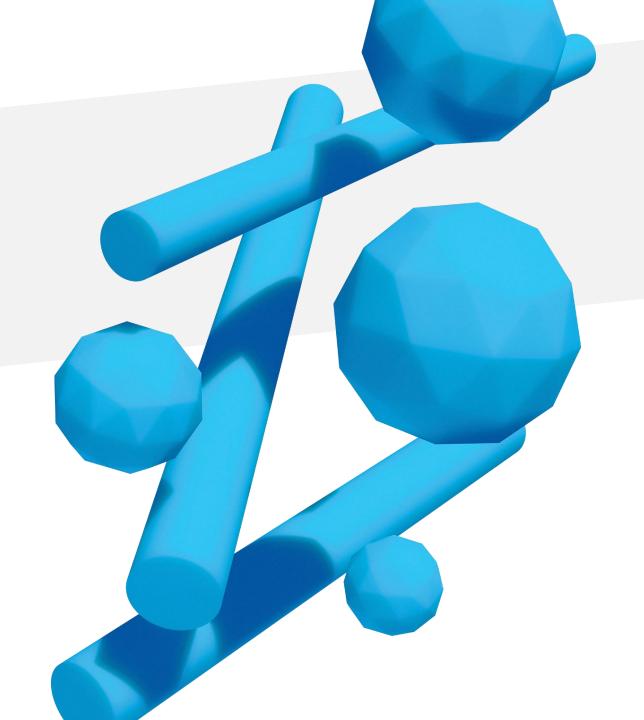
Building Full-Stack Unicode Applications with VAST

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Agenda

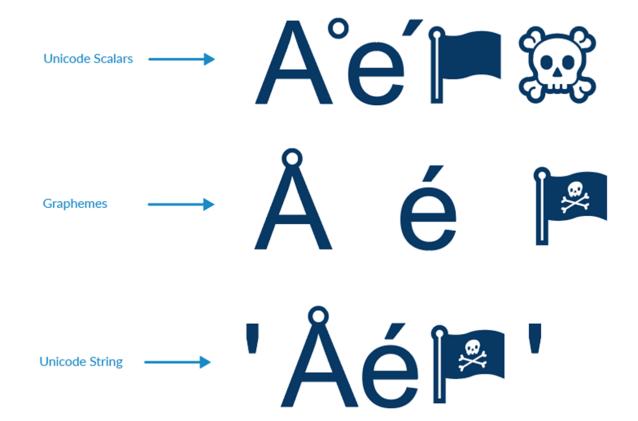
- VAST Unicode Support Recap
- Unicode support scope
- Live **and interactive** demo
- Unicode Support Next Steps
- Questions





Unicode abstractions composition

- UnicodeScalar
 - Represents a Unicode code point
- Grapheme
 - Composed or one or more UnicodeScalars
 - User perceived "character"
- UnicodeString
 - Collection of Graphemes
 - Mutable/Growable
 - API Compatible with String
 - Internal storage is validated UTF-8





Unicode Support as of VAST 2024 (13.0.0)

- Tools
 - Inspectors, Workspace
- JSON/CSV/STON support
- Database/GLORP support
 - Full support, input/output of UnicodeStrings
- Seaside
 - Can render UnicodeStrings, Graphemes, Scalars
 - Input is limited to codepage dependent strings
- Unicode support is always an opt-in feature



Seaside Unicode Support in upcoming VAST version

- Updated Grease/Seaside to latest releases
- Modified hashing of UnicodeStrings
- Full Unicode support for Grease/Seaside
 - Enabling is optional





Play with the Live Demo

Scan QR with your phone!





(INRIA-guest network)



https://bit.ly/esug-unicode





Unicode Support in VAST 2025 (14.0.0)

Use of Unicode is optional, but encouraged

GLORP

- Can take both Strings and UnicodeStrings as input
- Outputs UnicodeString's instead of String

Seaside

- Can take both Strings and UnicodeStrings as input
- Unicode support for WAFileLibrary text MIME types





Unicode Support Next Steps

- Unicode Collation support
- Dev tools Unicode integration
 - ENVY/Library integration
 - Browsers
 - UI composers
- Extend frameworks support
 - CFS (Filesystem) integrations
 - SST libraries
 - XML
- Define literals syntax
 - UnicodeString
 - Grapheme







Questions?

Thanks for attending!

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