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# **blueberry Documentation**

***Release v0.1.0***

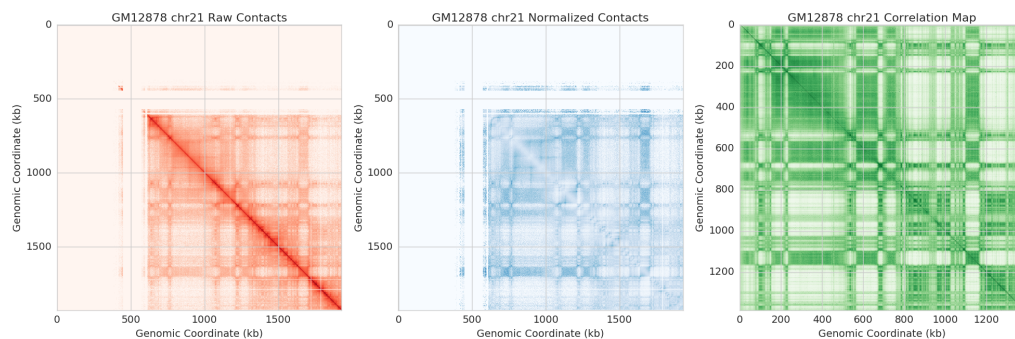
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blueberry implements efficient data structures for the storage, analysis, and exploration of Hi-C datasets. Currently it supports data types for the storage of raw Hi-C datasets, performing KR matrix-balancing, observed/expected normalization, calculation of correlation matrices, and calculation of the first eigenvector, as well as datatypes for Fit-Hi-C results.

This page currently serves as an API reference for these data structures.

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## **Data Structures**

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blueberry currently implements two major data structures, the `ContactMap`, and the `FithicContactMap`. The `ContactMap` is intended for data files which have the format `i, j, contactCount`. The `FithicContactMap` is intended for data files which have the format `i, j, contactCount, p, q`.

### **1.1 API Reference**

- `genindex`
- `modindex`
- `search`