

Semantic prediction

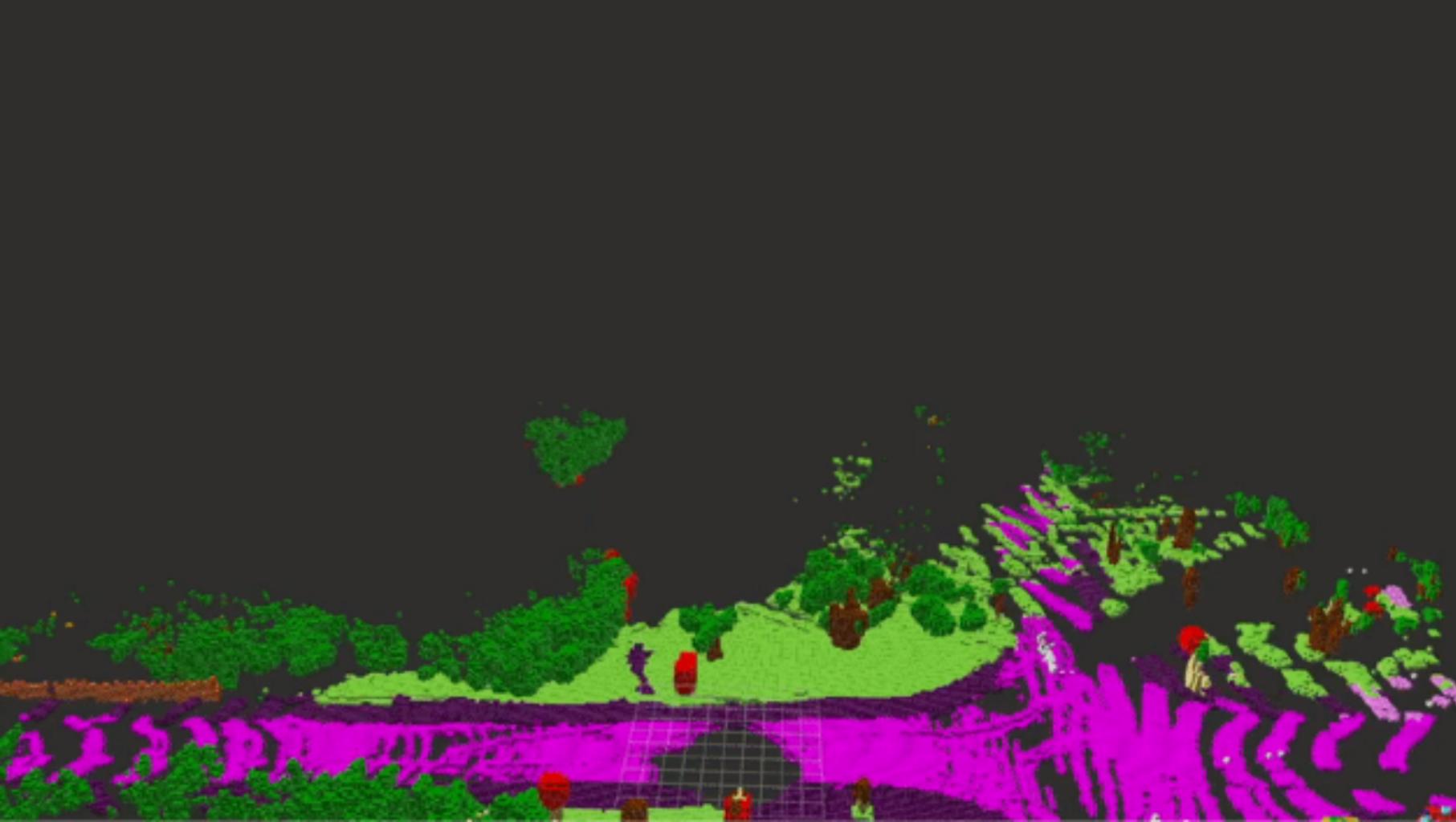
- Classical algorithms
 - Object-based
 - Material-based
 - Spatial-based

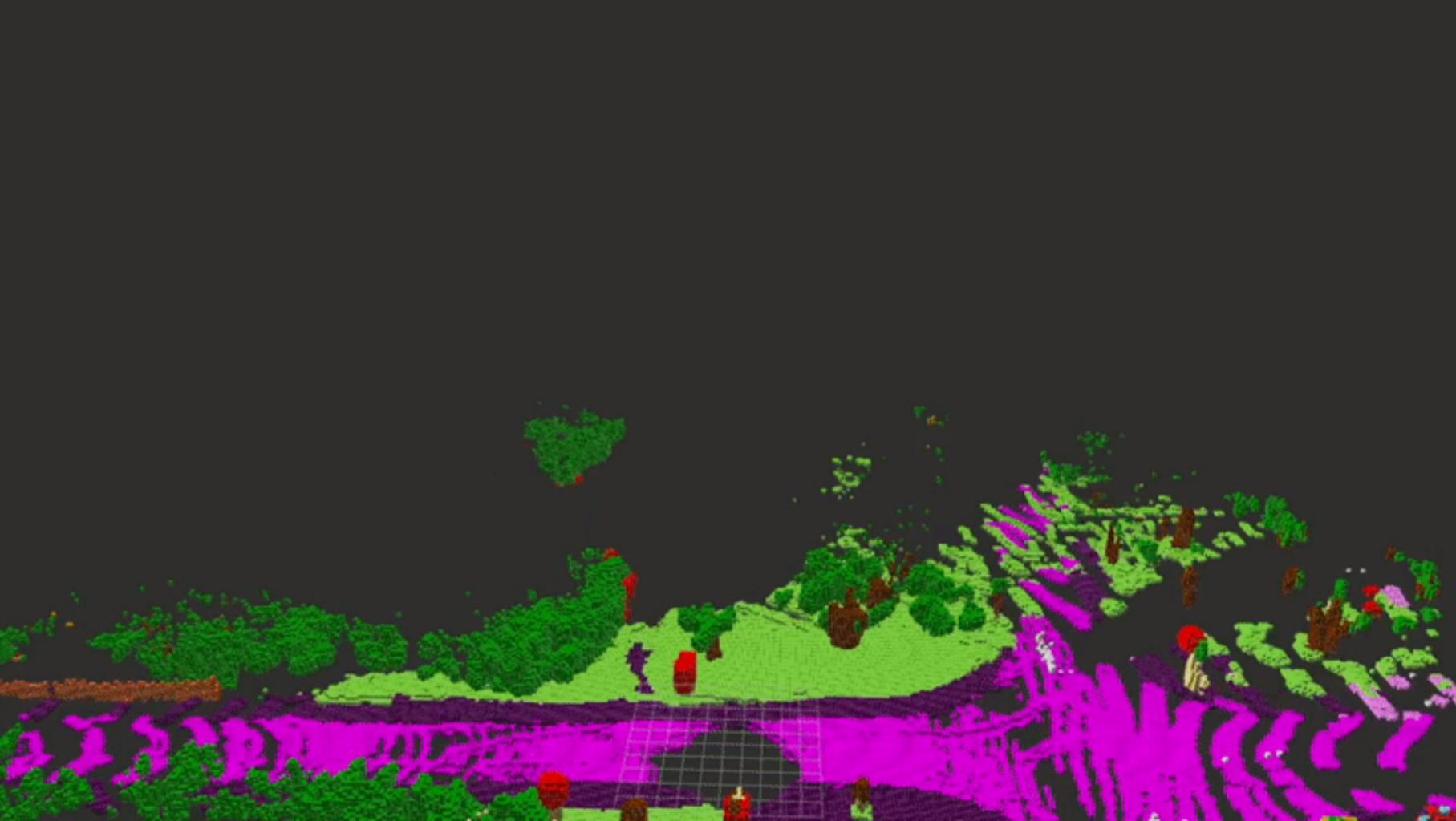
- Real-time semantic mapping
 - Occupancy grids (e.g. OctoMap)
[Hornung, A., et al. (2013)]
 - ConvBKI: Segmentation with quantifiable uncertainty [Wilson, J., et al. (2023)]

- **Multimodal segmentation**
 - Segmentation with depth
[Wang, P., et al. (2015)]
 - Segmentation with thermal data
[Sun, Y., et al. (2021)]

no temporal consistency

immutable during
operation





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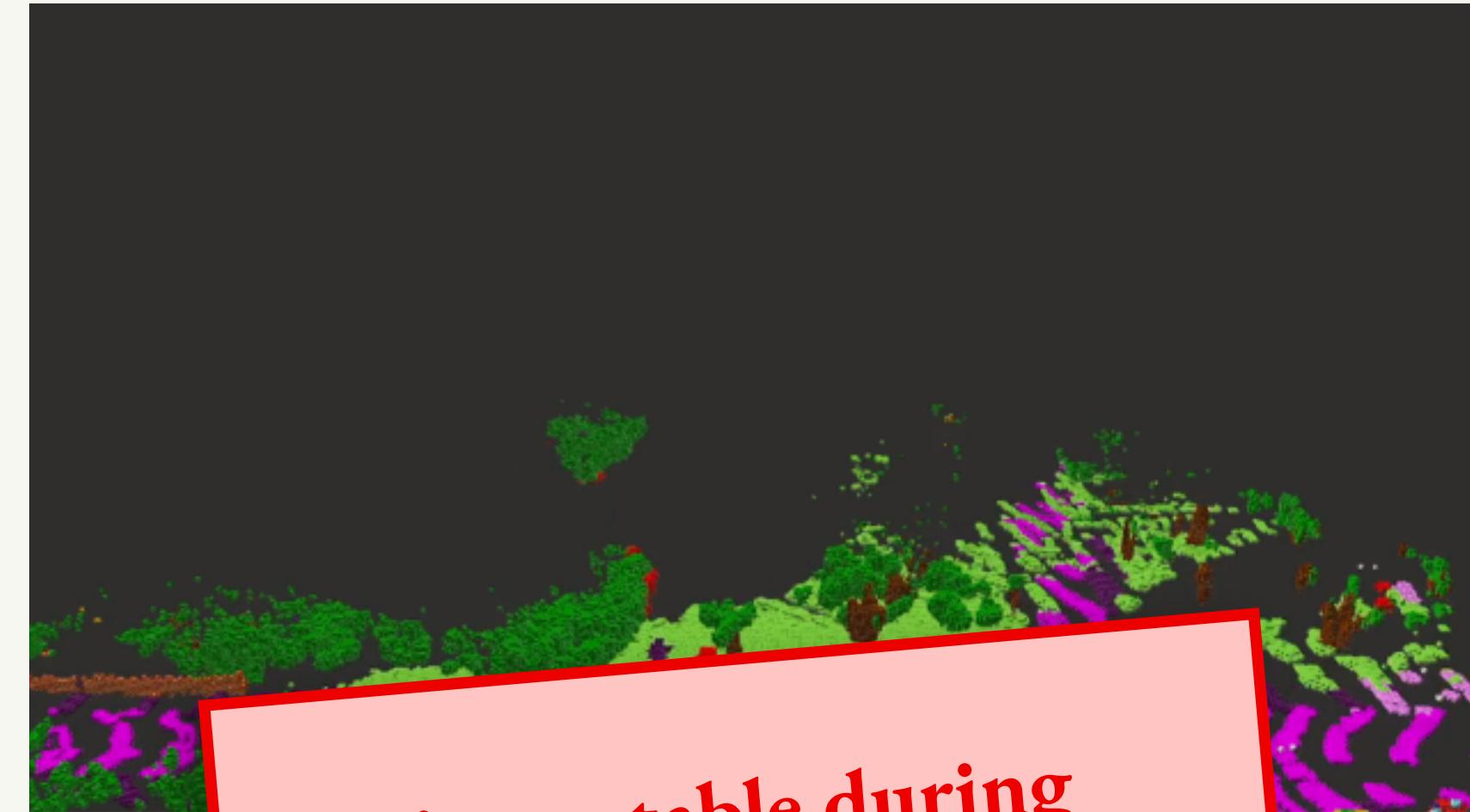
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Property estimation