

BraTS 2020 Dataset

Segmentation task dataset

- BraTS stands for Brain Tumor Segmentation
- it is composed by 155 horizontal "slices" of brain MRI images for 369 patients (volumes):

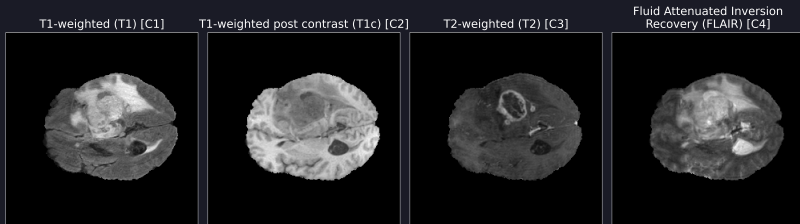
$$155 \cdot 369 = 57195$$

- we used the 50% "*most significant*" slices of the dataset
- we used 90% of data for training and 10% for testing

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Images have 4 channels:

1. **T1 weighted (T1)**: *good for visualizing the brain but not the tumor*
2. **T1 weighted with contrast (T1c)**: *taken with the same technique as T1 but with contrast*
3. **T2 weighted (T2)**: *good for visualizing the edema*
4. **Fluid Attenuated Inversion Recovery (FLAIR)**: *improves the visualization of the edema*



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Each slice has 3 mask labels (*some might be empty*):

1. **Necrotic and Non-Enhancing Tumor Core (NCR/NET)**
2. **Edema (ED)**
3. **Enhancing Tumor (ET)**

