Schematic alignment examples:

- **Overlapping PE-reads** (merged before mapping)
  - **left (+)**
  - **right (-)**
  - Alignment overlap
  - Fragment size

- **Non-overlapping PE-reads** (not merged before mapping)
  - **left (+)**
  - **right (-)**
  - Unsequenced gap
  - Fragment size

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### Fragment size distribution

**WB (A)**
- Median = 250 nt

**AS175P4 (A)**
- Median = 274 nt

**AS175P33 (A)**
- Median = 277 nt

**P15 (E)**
- Median = 255 nt

**GS (B)**
- Median = 286 nt