

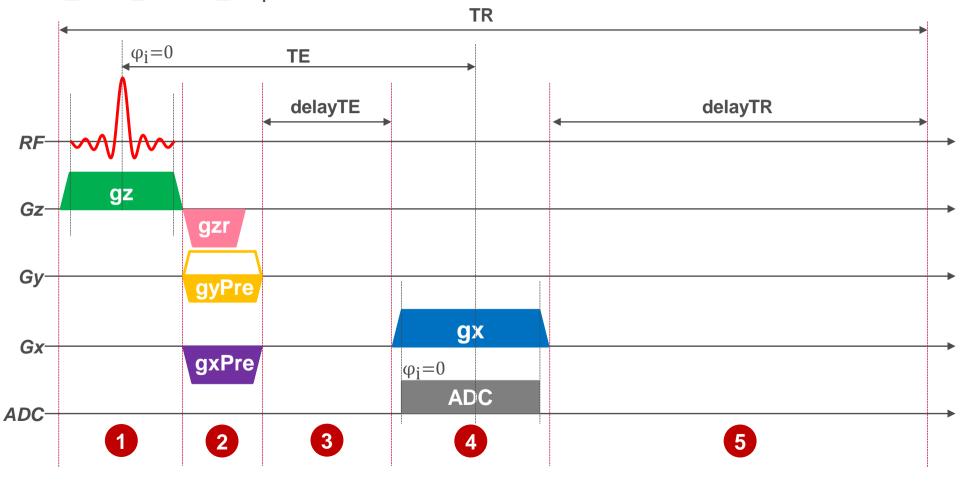
## Pulseq Tutorial Notes (02\_basic\_gradient\_echo)

Qingping Chen

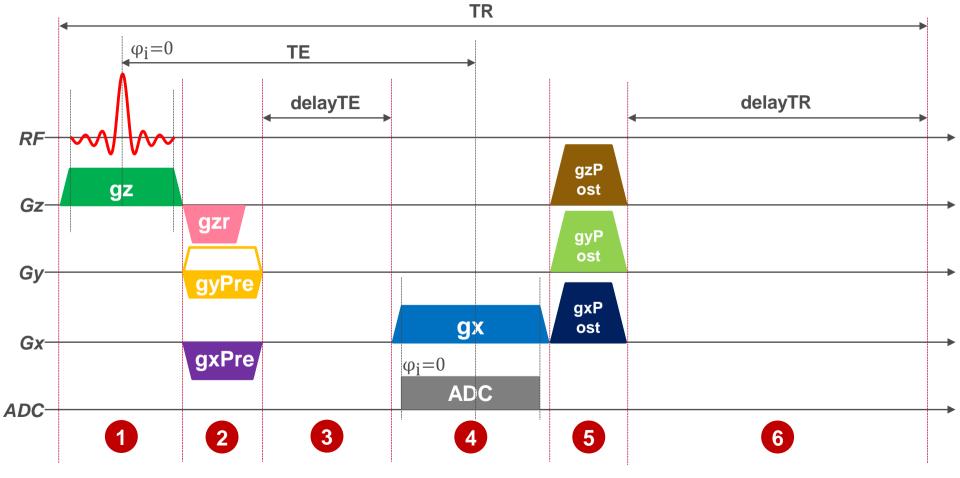
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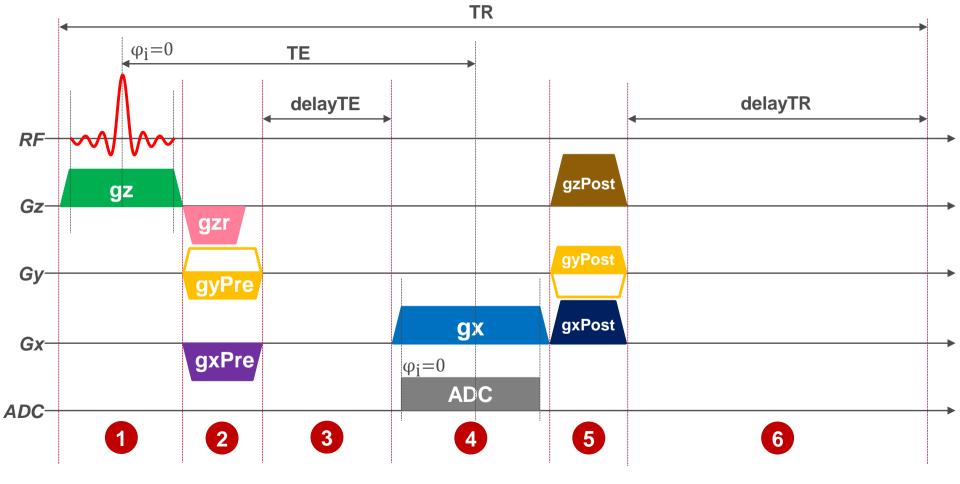
## s01\_GRE\_tutorial\_step0



s02\_GRE\_tutorial\_step1 (gradient spoiling: Gx, Gy, Gz)

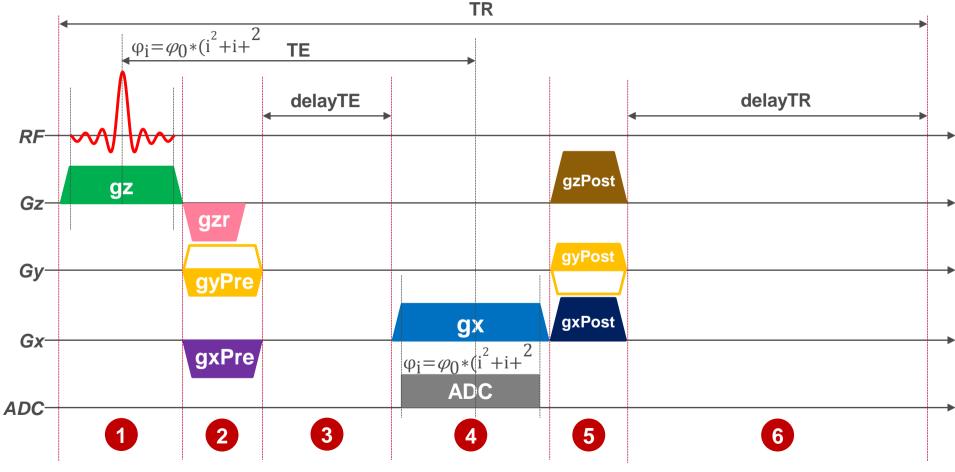


s03\_GRE\_tutorial\_step2 (gradient spoiling: Gx, Gz + Gy rephasing)



s04\_GRE\_tutorial\_step3 (RF spoiling) TR  $\varphi_{i} = \varphi_{0} * (i^{2} + i + 2)$ ΤE delayTE delayTR RF gzPost gz Gzgzr gyPost GygyPre gxPost gx GxgxPre  $\varphi_i = 0$ ADC ADC-3 5 2

## s05\_GRE\_tutorial\_step4 (RF spoiling)



s06\_GRE\_tutorial\_step5 (dummy scans)

