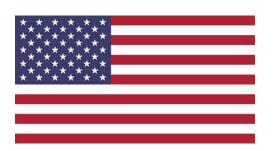
USA Butterfly Revolution





Butterfly Performance Technique

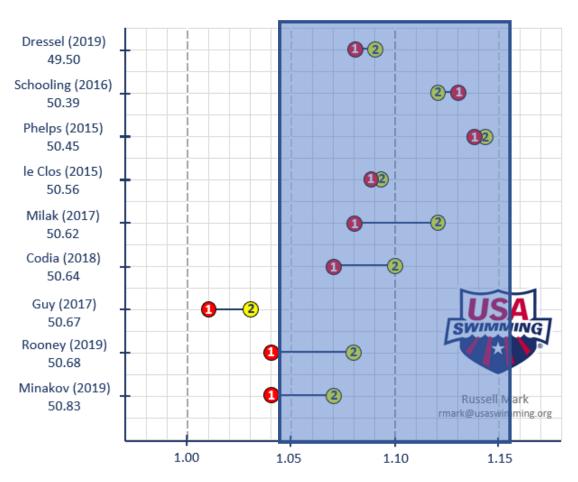
- Fly has the smallest range of racing tempos of all strokes
- 100 fly: Mostly 1.05 to 1.15 seconds per stroke
- 200 fly: Mostly 1.10 to 1.30 seconds per stroke
- The best 18 & Under athletes have similar tempos as pros
- Athletes improve by reducing stroke count as they get older
- Possible training benefit for a tired lagging fly stroke, but not directly race relevant (or technically effective)

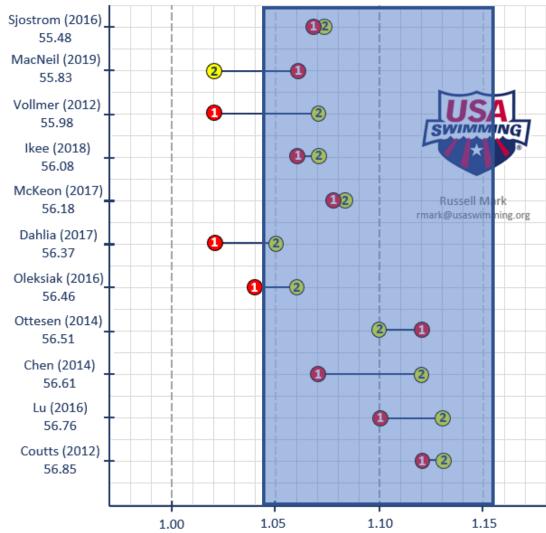




100 fly

Average Tempo by 50





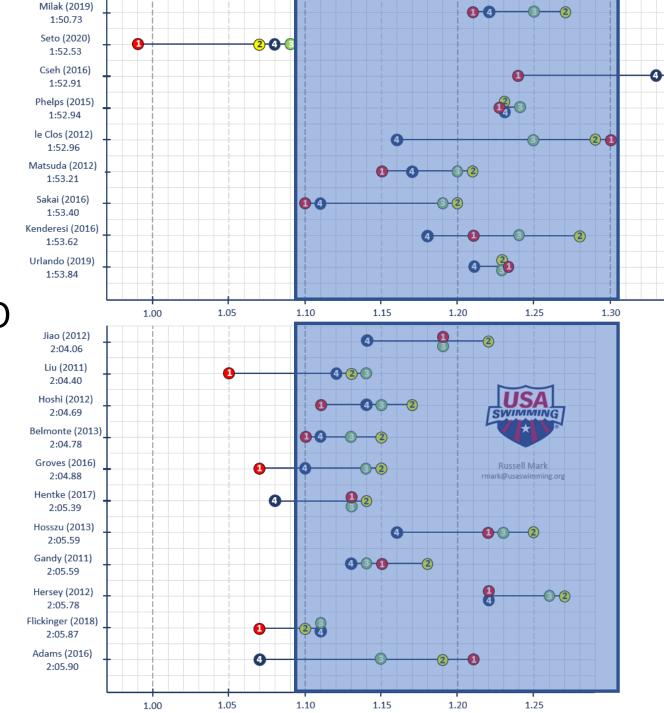
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90% of 50s from 1.05-1.15



200 fly Avg Tempo by 50

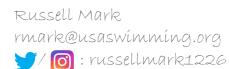


85% of 50s from 1.1-1.3

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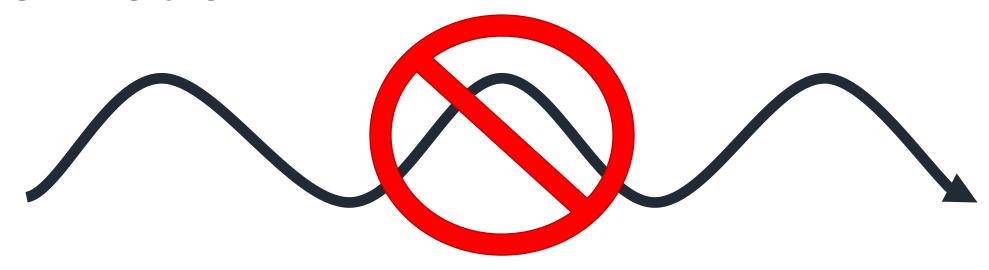
1.40

1.35





The Motion



Not a big undulating motion



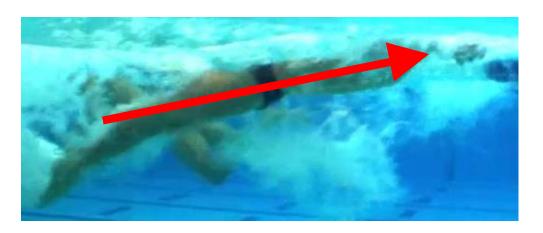
Focus is FORWARD
Pull+Kick Forward – Crash+Press Forward





The Motion





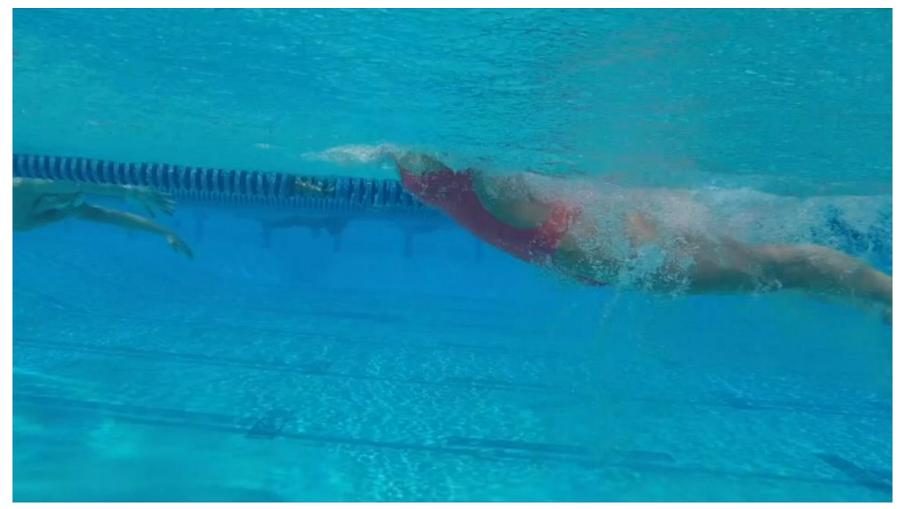
Pull + Kick Forward



Crash + Press Forward



Press Forward

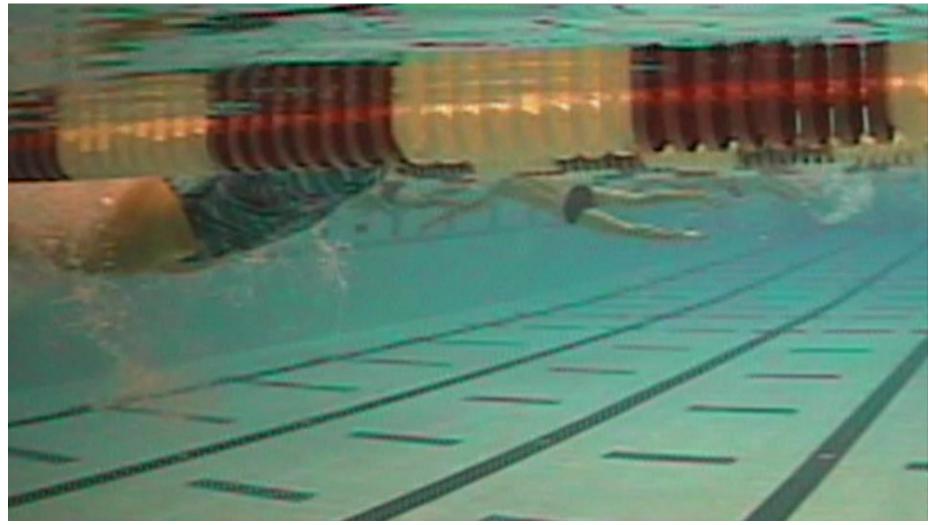


- Head & torso lead way
- Kick the hands forward
- Head stays in line w body
- Eyes looking down or slightly forward
- Chin is NOT tucked
- Forehead NOT leading the way
- Your face sets direction
- High hips come from this





Beware of Pressing Deep

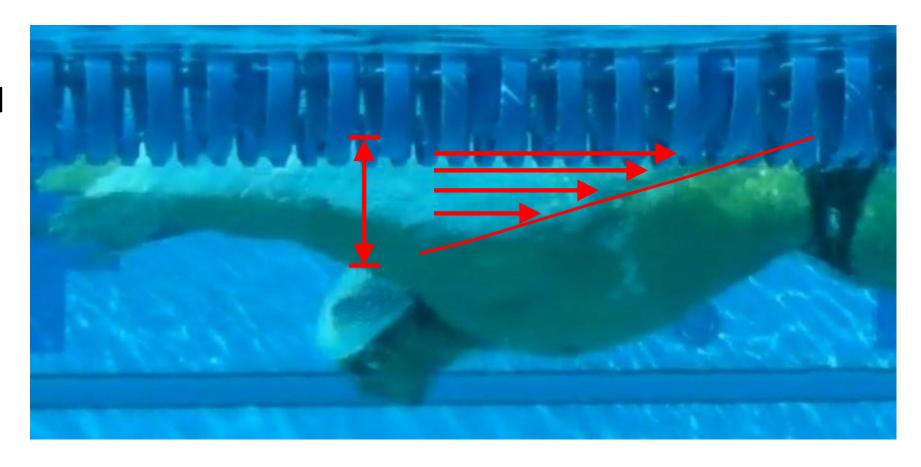






Beware of Pressing Deep

- Only athletes with flexible shoulders and large range of motion have a chance to be effective in this
- Large distance to rise up for the breath
- A lot of resistance

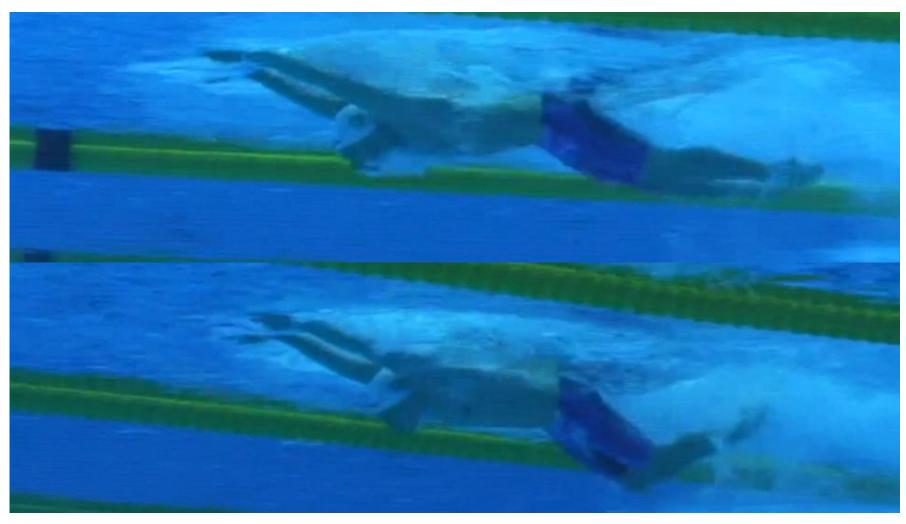








Pull + Kick Forward



Starting from hands at shoulder width:

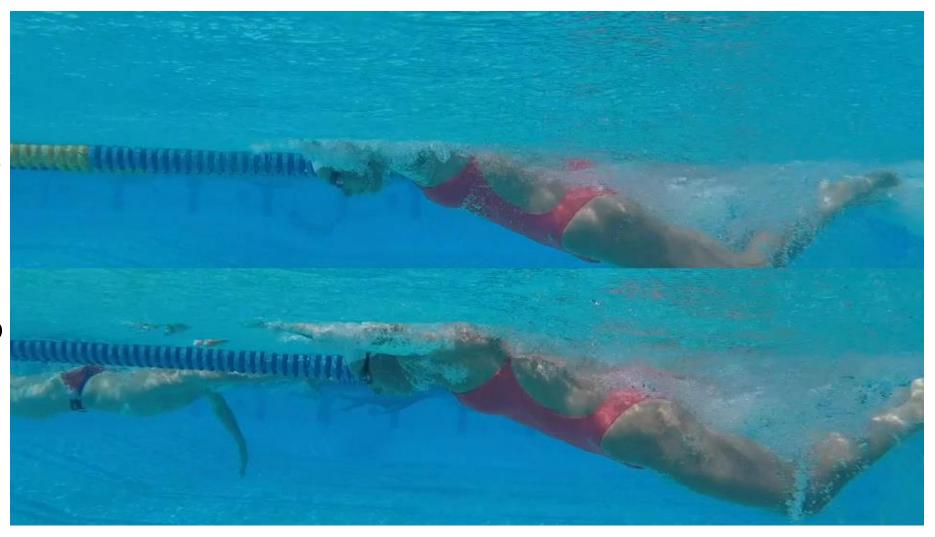
- Focus on pushing water back with your palms
- Hands will initially go wider
- Easier to have a good catch with a forward press (not a deep press)
- Move head as little as possible to prepare for breath

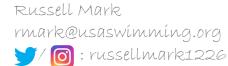




Pull + Kick Forward

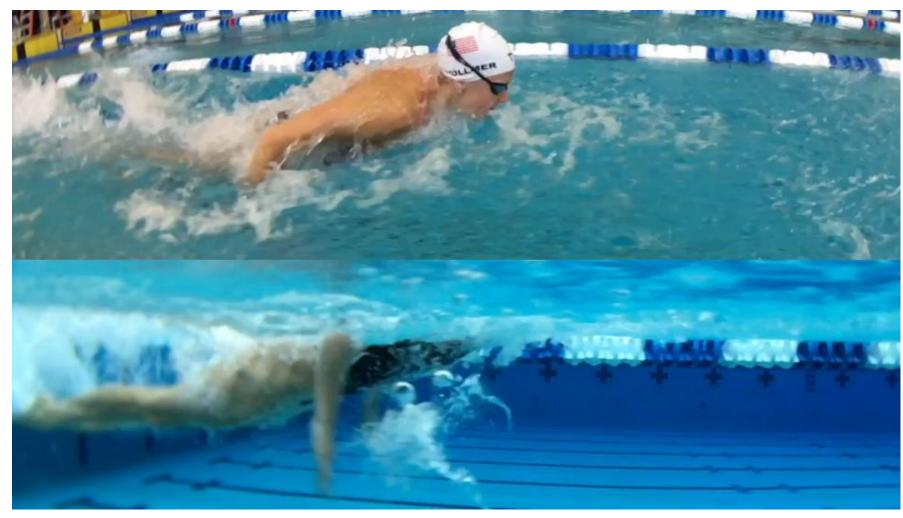
- Head will naturally rise with the pull
- Head breaks the surface as the hands pass the shoulders
- KICK with the pull!!!
- Bend the knees to setup
- Often, athletes will miss this kick during a breath







Crash Forward



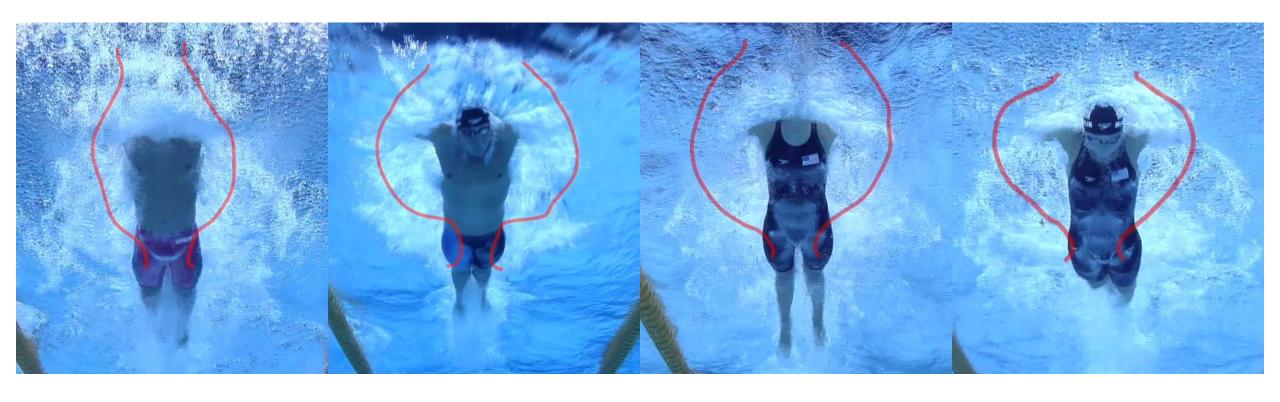
- Finish the pull with a rounded sweeping motion to smoothly transition into recovery
- Do NOT over-emphasize the finish
- Head leads the way into the water
- Head gets in line but goes no further
- Crash hands forward

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Pull Pattern



- There will be some natural roundness to the hand path, but focus on pushing water back
- A finish underneath the body can help generate that kick



Questions?

