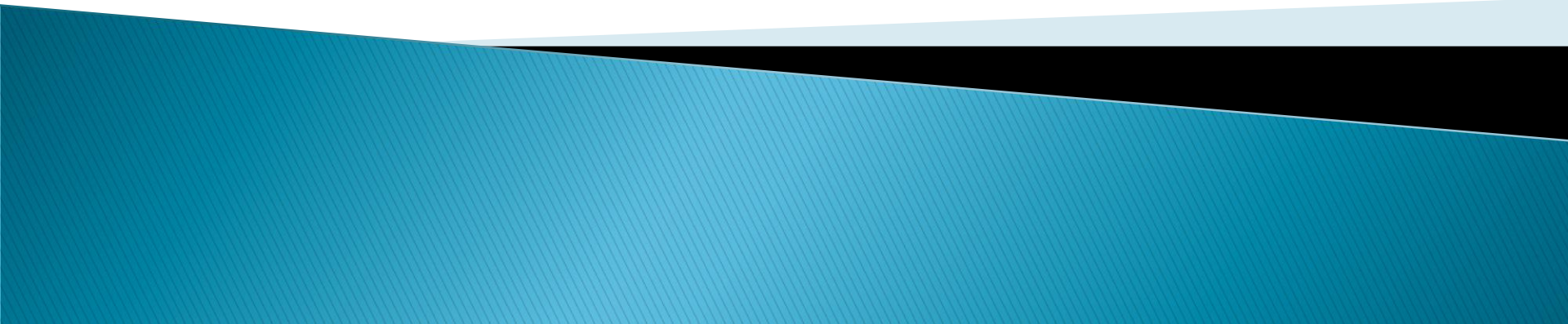


A NEW KIND OF WAR

PART 2



GUNS

- ▶ rapid-fire machine guns were used

early machine guns:

- ▶ were big & heavy
- ▶ needed a crew of four to six people to operate
- ▶ lacked cooling mechanisms
- ▶ shot 400–600 small caliber rounds per minute



GUNS

- ▶ later machine guns were lighter & more portable
- ▶ lighter weight, but still too heavy
- ▶ **1918** → guns for infantrymen now existed
 - lighter weight
 - lacked enough ammunition
- ▶ by end of war, guns had been added to tanks, warships, & aircraft

TANKS

- ▶ aka: landships
- ▶ armored vehicles
- ▶ could cross rough battlefield terrain
 - such as no man's land
- ▶ first tank, “Little Willie”
 - 14 tons (weight) with 12-foot long track frames
 - space for three men (cramped)
 - maximum speed of 2 mph (on rough terrain)



TANKS

- ▶ first developed in Great Britain
 - France & the US soon became interested
- ▶ not very reliable or useful at first
- ▶ used later in the war
 - November 1917, Battle of Cambrai



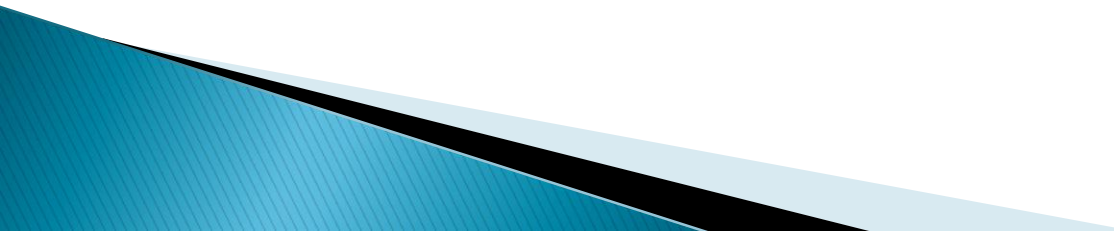
AIRCRAFT

Uses of aircraft:

- ▶ observe enemy positions
- ▶ armed with machine guns & bombs
- ▶ attacked battlefields & cities
- ▶ attacked enemy planes
("dogfights")
- ▶ useful from beginning of war



AIRCRAFT

- ▶ most countries had few planes at start of war
 - ▶ production of planes increased rapidly
 - ▶ planes had to be easy to fly
 - first, designed for stability
 - later, designed for maneuverability
 - ▶ generals began including planes in planning
- 



SUBMARINES

- ▶ U-boat: submarines used by Germans in WWI and WWII
 - developed by Germans
- ▶ unrestricted submarine warfare
 - any ship traveling in water around Great Britain was subject to attack

SUBMARINES

- ▶ easy to attack without being seen
- ▶ attack merchant ships
 - cut off (British) supply lines
- ▶ Great Britain developed convoys
 - helped against threat of attack
- ▶ United States entered war on Allied side
 - Americans had been killed because of unrestricted submarine warfare

MISCELLANEOUS WEAPONS

- ▶ flamethrower
 - different sizes for different circumstances



MISCELLANEOUS WEAPONS

- ▶ grenade
 - detonate two different ways: impact or timed-fuse



MISCELLANEOUS WEAPONS

- ▶ bayonet
 - had more of a psychological use



MISCELLANEOUS WEAPONS

- ▶ mortar
 - could be fired from inside a trench

