

Family Radio Service (FRS) Citizen's Band (CB) Amateur Radio

What's the Difference?

FRS

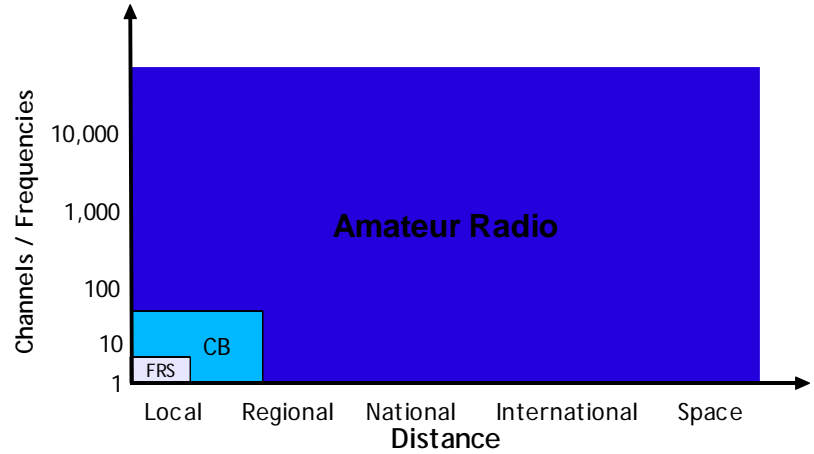
- Short Range, Portable Communications

CB

- Mobile Communications
- Recreational Hobby

Amateur Radio (aka Ham Radio)

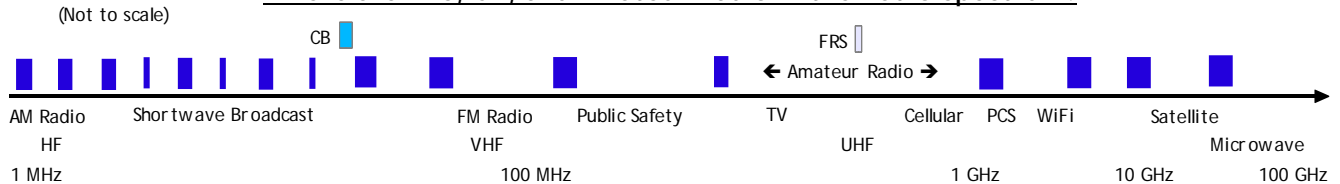
- Worldwide Infrastructure-Independent Communications
- Emergency Communications
- Recreational Hobby
- Experimentation



	Voice	Data	Morse Code	Image	Satellite
FRS	✓				
CB	✓				
Amateur	✓	✓	✓	✓	✓

Methods of Communicating

Where are FRS, CB, and Amateur Radio in the Radio Spectrum?



How Much Do They Cost?

FRS	handheld	\$50 - 150
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CB	base station	\$50 - 400
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Amateur Radio	handheld	\$100 - 500
	portable	\$100 - 1K
	base station	\$150 - 10K

	<u>Advantages</u>	<u>Disadvantages</u>
FRS	<ul style="list-style-type: none"> • Inexpensive, Readily Available Equipment • Easy and Convenient • No License Required 	<ul style="list-style-type: none"> • Limited Distance • Limited Applications
CB	<ul style="list-style-type: none"> • No License Required • Mobile Communications • Recreational Communications 	<ul style="list-style-type: none"> • Interference • Limited Technology
Amateur Radio	<ul style="list-style-type: none"> • Most Versatile • Experimentation • Short and Long Distance • Low Power (< 1 Watt) to High Power (1,500 Watts) • Internationally Recognized • Maritime & Aircraft Capable • Emergency Organizations • Highly Trained Operators • Hybrid Wireless & Internet 	<ul style="list-style-type: none"> • License Required • Higher Cost Equipment